**Reference list ‘Scientific Reviews on Meat Analogues and Plant-Based Ingredients’**

Novel foods. (1995). *Trends in Food Science & Technology*, *6*(March), 80304.

Aaron, L., & Torsten, M. (2019). Microbial transglutaminase: A new potential player in celiac disease. *Clinical Immunology*, *199*, 37–43. https://doi.org/10.1016/j.clim.2018.12.008

Aaslyng, M. D., Martens, M., Poll, L., Munk Nielsen, P., Flyge, H., & Larsen, L. M. (1998). Chemical and Sensory Characterization of Hydrolyzed Vegetable Protein, a Savory Flavoring. *Journal of Agricultural and Food Chemistry*, *46*(2), 481–489. https://doi.org/10.1021/jf970556e

Abbas, K.A., K. Khalil, S., Meor Hussin, A.S. (2010). Modified Starches and Their Usages in Selected Food Products: A Review Study. *Journal of Agricultural Science*. *2(2)*, 90-100. https://doi.org/ 10.5539/jas.v2n2p90

Aceituno-Medina, M., Mendoza, S., Lagaron, J. M., & López-Rubio, A. (2013). Development and characterization of food-grade electrospun fibers from amaranth protein and pullulan blends. *Food Research International*, *54*(1), 667–674. https://doi.org/10.1016/j.foodres.2013.07.055

Agboyibor, C., Kong, W. B., Chen, D., Zhang, A. M., & Niu, S. Q. (2018, October 1). Monascus pigments production, composition, bioactivity and its application: A review. *Biocatalysis and Agricultural Biotechnology*. Elsevier Ltd. https://doi.org/10.1016/j.bcab.2018.09.012

Agriculture and Agri-Food Canada. (2017). *MARKET ACCESS SECRETARIAT, Global Analysis Report, Health and Wellness Series, Vegetarian and Vegan Food in Germany*. Retrieved from http://www.agr.gc.ca/resources/prod/Internet-Internet/MISB-DGSIM/ATS-SEA/PDF/6840-eng.pdf

Aguilar-Vázquez, G., Loarca-Piña, G., Figueroa-Cárdenas, J. D. D., & Mendoza, S. (2018). Electrospun fibers from blends of pea (Pisum sativum) protein and pullulan. *Food Hydrocolloids*, *83*, 173–181. Retrieved from https://www.sciencedirect.com/science/article/pii/S0268005X18301498

Aguilar-Vázquez, G., Ortiz-Frade, L., Figueroa-Cárdenas, J. D., López-Rubio, A., & Mendoza, S. (2020). Electrospinnability study of pea (Pisum sativum) and common bean (Phaseolus vulgaris L.) using the conformational and rheological behavior of their protein isolates. *Polymer Testing*, *81*, 106217. https://doi.org/10.1016/J.POLYMERTESTING.2019.106217

Aguilera, J.M., Baffico, P., 1997. Structure-Mechanical Properties of Heat- Induced Whey Protein/Cassava Starch Gels. *Journal of Food Science* 62, 1048–1054. https://doi.org/10.1111/j.1365-2621.1997.tb15035.x

Aguilera, J. M., Rossi, F., Hiche, E., & Chichester, C. O. (1980). Development and evaluation of an extrusion-texturized peanut protein. *Journal of Food Science*, *45*(2), 246–250. https://doi.org/10.1111/j.1365-2621.1980.tb02587.x

Aguilera, J. M., & Stanley, D. W. (1990). *Microstructural principles of food processing & engineering*. Elsevier Applied Science.

Ahlawat, S., & Sciences, A. (2017). Studies on physico-chemical properties and shelf life of developed chicken meat analogue rolls. *Haryana Vet*, *54*(1), 25–28.

Ahmad, R., Samuelsen, T. A., Garvik, A. B., & Oterhals, Å. (2018). Effect of amino acid, pH and mineral salts on glass transition and flow behaviour of soy protein concentrate. *International Journal of Food Science and Technology*, *53*(6), 1425–1433. https://doi.org/10.1111/ijfs.13720

Ai, Y., Jane, J.l.L., 2015. Gelatinization and rheological properties of starch. *Starch/Staerke 67*, 213–224. https://doi.org/10.1002/star.201400201

Aiking, H. (2011). Future protein supply. *Trends in Food Science and Technology*. https://doi.org/10.1016/j.tifs.2010.04.005

Aiking, H. (2014). Protein production: Planet, profit, plus people? In *American Journal of Clinical Nutrition* (Vol. 100, pp. 483S-489S). Narnia. https://doi.org/10.3945/ajcn.113.071209

Aiking, H., & de Boer, J. (2018). The next protein transition. *Trends in Food Science & Technology*. https://doi.org/10.1016/J.TIFS.2018.07.008

Ainis, W. N., Ersch, C., Farinet, C., Yang, Q., Glover, Z. J., & Ipsen, R. (2019). Rheological and water holding alterations in mixed gels prepared from whey proteins and rapeseed proteins. *Food Hydrocolloids*, *87*, 723–733. https://doi.org/10.1016/j.foodhyd.2018.08.023

Aji, N. R., Agus, E., Wibowo, P., & Mayasari, T. (2016). Meat analog based necklace crickets and fruit ( Jackfruit and Pumpkin ) as an alternative source of animal protein ingredients food in Gunung Kidul. *Journal of Scientific and Innovative Research*, *5*(5), 179–181.

Akramzadeh, N., Hosseini, H., Pilevar, Z., Karimian Khosroshahi, N., Khosravi-Darani, K., Komeyli, R., … Khaneghah, A. M. (2018). Physicochemical properties of novel non-meat sausages containing natural colorants and preservatives. *Journal of Food Processing and Preservation*, *42*(9), e13660. https://doi.org/10.1111/jfpp.13660

Alam, M. S., Kaur, J., Khaira, H., & Gupta, K. (2016). Extrusion and Extruded Products: Changes in Quality Attributes as Affected by Extrusion Process Parameters: A Review. *Critical Reviews in Food Science and Nutrition*, *56*(3), 445–473. https://doi.org/10.1080/10408398.2013.779568

Alam, M. R., Scampicchio, M., Angeli, S., & Ferrentino, G. (2019). Effect of hot melt extrusion on physical and functional properties of insect based extruded products. *Journal of Food Engineering*, *259*, 44–51. https://doi.org/10.1016/j.jfoodeng.2019.04.021

Albert Heijn, a. Albert Heijn Biologische Rundergehaktballet- jes. URL: https://www.ah.nl/producten/product/wi436877/ah-biologisch-runder-gehaktballetjes.

Albert Heijn, b. Albert Heijn Hamburger. URL: https://www.ah.nl/ producten/product/wi169238/ah-hamburgers

Albert Heijn, c. Albert Heijn Runderbraadworst. URL: https://www.ah.nl/producten/product/wi187588/ah-runderbraadworst.

Albert Heijn, d. Albert Heijn Shoarmareepjes. URL: https://www.ah.nl/producten/product/wi210607/ah-shoarmareepjes.

Albert Heijn, e. Albert Heijn Stukjes Als Van Kip. URL: https://www.ah.nl/producten/product/wi437493/ah-stukjes-als-van-kip

Alexander, P., Brown, C., Arneth, A., Dias, C., Finnigan, J., Moran, D., & Rounsevell, M. D. A. (2017). Could consumption of insects, cultured meat or imitation meat reduce global agricultural land use? *Global Food Security*, (January), 1–11. https://doi.org/10.1016/j.gfs.2017.04.001

Alexander, P., Brown, C., Arneth, A., Finnigan, J., Moran, D., & Rounsevell, M. D. A. (2017). Losses, inefficiencies and waste in the global food system. *Agricultural Systems*, *153*, 190–200. https://doi.org/10.1016/j.agsy.2017.01.014

Alexandratos, N., & Bruinsma, J. (2012). World agriculture towards 2030/2050. *Land Use Policy*, *20*(4), 375. https://doi.org/10.1016/S0264-8377(03)00047-4

Alid, G., Yanez, E., Aguilera, J. M., Monckeberg, F., & Chichester, C. O. (1981). Nutritive Value of an Extrusion-Texturized Peanut Protein. *Journal of Food Science*, *46*(3), 948–949. https://doi.org/10.1111/j.1365-2621.1981.tb15390.x

Allen, R. E. (1988). Muscle Cell Growth and Development. In National Research Council (US) Committee on Technological Options to Improve the Nutritional Attributes of Animal Products. (Ed.), *Designing Foods: Animal Product Options in the Marketplace*. Washington (DC): National Academies Press (US).

Allievi, F., Vinnari, M., & Luukkanen, J. (2015). Meat consumption and production - Analysis of efficiency, sufficiency and consistency of global trends. *Journal of Cleaner Production*, *92*, 142–151. https://doi.org/10.1016/j.jclepro.2014.12.075

Alonso, R., Aguirre, A., Marzo, F., 2000. Effects of extrusion and traditional processing methods on antinutrients and in vitro digestibility of protein and starch in faba and kidney beans. *Food Chemistry 68,* 159–165. https://doi.org/10.1016/S0308-8146(99)00169-7

Altschul, A. M., & Wilcke, H. L. (2013). *New Protein Foods: Seed Storage Proteins (Vol. 5)*. Academic Press.

Aluko, R. E., Mofolasayo, O. A., & Watts, B. M. (2009). Emulsifying and foaming properties of commercial yellow pea (Pisum sativum L.) seed flours. *Journal of Agricultural and Food Chemistry*, *57*(20), 9793–9800. https://doi.org/10.1021/jf902199x

Álvarez, C., Drummond, L., & Mullen, A. M. (2018). Protein recovered from meat co-products and processing streams as pork meat replacers in Irish breakfast sausages formulations. *LWT*, *96*, 679–685. https://doi.org/10.1016/J.LWT.2018.06.020

Ames, J. M. (1990). Control of the Maillard reaction in food systems. *Trends in Food Science and Technology*. https://doi.org/10.1016/0924-2244(90)90113-D

Amit, K. & Bandyopadhyay, P. (2012). Polysaccharide-Protein Interactions and Their Relevance in Food Colloids. In *The Complex World of Polysaccharides*. InTech. https://doi.org/10.5772/50561

Anantharamkrishnan, V., Hoye, T., & Reineccius, G. A. (2020). Covalent Adduct Formation between Flavor Compounds of Various Functional Group Classes and the Model Protein β-Lactoglobulin. *Journal of Agricultural and Food Chemistry*, *68*(23), 6395–6402. https://doi.org/10.1021/acs.jafc.0c01925

Andrade, J. E., Twaddle, N. C., Helferich, W. G., & Doerge, D. R. (2010). Absolute bioavailability of isoflavones from soy protein isolate-containing food in female Balb/c mice. *Journal of Agricultural and Food Chemistry*, *58*(7), 4529–4536. https://doi.org/10.1021/jf9039843

Annor-Frempong, I. E., Annan-Prah, A., & Wiredu, R. (1996). Cassava as a non-conventional filler in comminuted meat products. *Meat Science*, *44*(3), 193–202. https://doi.org/10.1016/S0309-1740(96)00043-5

Anu Bhushani, J., & Anandharamakrishnan, C. (2014). Electrospinning and electrospraying techniques: Potential food based applications. *Trends in Food Science and Technology*. Elsevier Ltd. https://doi.org/10.1016/j.tifs.2014.03.004

Apaiah, R. K., Linnemann, A. R., & van der Kooi, H. J. (2006). Exergy analysis: A tool to study the sustainability of food supply chains. *Food Research International*, *39*(1), 1–11. https://doi.org/10.1016/J.FOODRES.2005.04.006

Appelqvist, I.A.M., Debet, M.R.M., 1997. Starch-biopolymer interactions—a review. *Food Reviews International 13*, 163–224. https://doi.org/10.1080/87559129709541105

Apostolidis, C., & McLeay, F. (2016). Should we stop meating like this? Reducing meat consumption through substitution. *Food Policy*, *65*, 74–89. https://doi.org/10.1016/j.foodpol.2016.11.002

Arêas, J. (1992). Extrusion of Food Proteins. *Critical Reviews in Food Science and Nutrition*, *32*(4), 365–392. https://doi.org/10.1080/10408399209527604

Arltoft, D., Madsen, F., & Ipsen, R. (2008). Relating the microstructure of pectin and carrageenan in dairy desserts to rheological and sensory characteristics. *Food Hydrocolloids*, *22*(4), 660–673. https://doi.org/10.1016/j.foodhyd.2007.01.025

Arntfield, S.D., Murray, E.D., Ismond, M.A.H., 1985. The Influence of Processing Parameters on Food Protein Functionality III. Effect of Moisture Content on the Thermal Stability of Fababean Protein. *Canadian Institute of Food Science and Technology Journal 18*, 226–232.

Arora, B., Kamal, S., & Sharma, V. P. (2017). Effect of Binding Agents on Quality Characteristics of Mushroom Based Sausage Analogue. *Journal of Food Processing and Preservation*, *41*(5). https://doi.org/10.1111/jfpp.13134

Asgar, M. A., Fazilah, A., Huda, N., Bhat, R., & Karim, A. A. (2010). Nonmeat protein alternatives as meat extenders and meat analogs. *Comprehensive Reviews in Food Science and Food Safety*, *9*(5), 513–529. https://doi.org/10.1111/j.1541-4337.2010.00124.x

Askew, K. (2017). Europe leads in innovation as meat-free demand grows. Retrieved February 14, 2018, from https://www.foodnavigator.com/Article/2017/08/24/Europe-leads-in-innovation-as-meat-free-demand-grows

Austgulen, M., Skuland, S., Schjøll, A., & Alfnes, F. (2018). Consumer Readiness to Reduce Meat Consumption for the Purpose of Environmental Sustainability: Insights from Norway. *Sustainability*, *10*(9), 3058. https://doi.org/10.3390/su10093058

Aydemir, L. Y., Yemenicioĝlu, A., & Yemenicio, A. (2013). Potential of Turkish Kabuli type chickpea and green and red lentil cultivars as source of soy and animal origin functional protein alternatives. *LWT - Food Science and Technology*, *50*(2), 686–694. https://doi.org/10.1016/j.lwt.2012.07.023

Bader, S., Bez, J., & Eisner, P. (2011). Can protein functionalities be enhanced by high-pressure homogenization? – A study on functional properties of lupin proteins. *Procedia Food Science*, *1*(0), 1359–1366. https://doi.org/http://dx.doi.org/10.1016/j.profoo.2011.09.201

Baek, H. H., Kim, C. J., Ahn, B. H., Nam, H. S., & Cadwallader, K. R. (2001). Aroma extract dilution analysis of a beeflike process flavor from extruded enzyme-hydrolyzed soybean protein. *Journal of Agricultural and Food Chemistry*, *49*(2), 790–793. https://doi.org/10.1021/jf000609j

Bailey, M. E. (1994). Maillard reactions and meat flavour development. In *Flavor of Meat and Meat Products* (pp. 153–173). Springer US. https://doi.org/10.1007/978-1-4615-2177-8\_9

Baines, D., & Seal, R. (2012). *Natural Food Additives, Ingredients and Flavourings*. *Natural Food Additives, Ingredients and Flavourings*. https://doi.org/10.1533/9780857095725

Balandran-Quintana, R.R., Barbarosa-Canovas, G.V., Zazueta-Morales, J.J., Anzaldua-Morales, A., Quintero-Ramos, A., 1998. Functional and Nutri- tional Properties of Extruded Whole Pinto Bean Meal (Phaseolus Vulgaris L.). *Journal of Food Science 63*, 113–116. https://doi.org/10.1111/j.1365-2621.1998.tb15688.x

Baioumy, A. A., Bobreneva, I. V., Tvorogova, A. A., & Shobanova, T. V. (2018). Possibility of using quinoa seeds (chenopodium quinoa) in meat products and its impact on nutritional and organoleptic characteristics. *Bioscience Research*, *15*(4), 3307–3315.

Banerjee, S., & Bhattacharya, S. (2012). Food Gels: Gelling Process and New Applications. *Critical Reviews in Food Science and Nutrition*, *52*(4), 334–346. https://doi.org/10.1080/10408398.2010.500234

Barak, S., Mudgil, D., & Khatkar, B. S. (2014). Influence of Gliadin and Glutenin Fractions on Rheological, Pasting, and Textural Properties of Dough. *International Journal of Food Properties*, *17*(7), 1428–1438. https://doi.org/10.1080/10942912.2012.717154

Barbut, S., 2015. The Science of Poultry and Meat Processing. University of Guelph, Guelph.

Barham, P., Skibsted, L. H., Bredie, W. L. P., & Risbo, J. (2010). Molecular Gastronomy: A New Emerging Scienti c Discipline. *Symposium A Quarterly Journal In Modern Foreign Literatures*, 2313–2365. https://doi.org/10.1021/cr900105w

Barker, H.A., 1933. The Effect of Water Content Upon the Rate of Heat Denaturation of Crystallizable Egg Albumin. *The Journal of General Physiology* 17, 21–34. https://doi.org/ 10.1085/jgp.17.1.21

Basati, A., Hosseini, S. E., & Student, M. S. (2018). *The Effects of Adding Xanthan and Carboxy Methyl Cellulose on Cooking and Sensory Characteristics of Soya Burger*. *Journal of Food Biosciences and Technology* (Vol. 8). Tehran Science and Research Branch, Islamic Azad University. Retrieved from http://jfbt.srbiau.ac.ir/article\_11258.html

Basediya, A. L., Pandey, S., Shrivastava, S. P., Khan, K. A., & Nema, A. (2013). Effect of process and machine parameters on physical properties of extrudate during extrusion cooking of sorghum, horse gram and defatted soy flour blends. *Journal of Food Science and Technology*, *50*(1), 44–52. https://doi.org/10.1007/s13197-011-0319-y

Bashi, Z., McCullough, R., Ong, L., & Ramirez, M. (2019). Alternative proteins: The race for market share is on. Retrieved February 16, 2021, from https://www.mckinsey.com/industries/agriculture/our-insights/alternative-proteins-the-race-for-market-share-is-on

Bastier, P., & Cheftel, J.-C. (1993). *FR2705534A1*. Retrieved from https://patents.google.com/patent/FR2705534A1/en?q=meat+analogue&inventor=cheftel

Batista, A. P., Portugal, C. A. M., Sousa, I., Crespo, J. G., & Raymundo, A. (2005). Accessing gelling ability of vegetable proteins using rheological and fluorescence techniques. *International Journal of Biological Macromolecules*, *36*(3), 135–143. https://doi.org/10.1016/j.ijbiomac.2005.04.003

Battacchi, D., Verkerk, R., Pellegrini, N., Fogliano, V., & Steenbekkers, B. (2020). The state of the art of food ingredients’ naturalness evaluation: A review of proposed approaches and their relation with consumer trends. *Trends in Food Science and Technology*. https://doi.org/10.1016/j.tifs.2020.10.013

Baú, T. R., & Ida, E. I. (2015). Soymilk processing with higher isoflavone aglycone content. *Food Chemistry*, *183*, 161–168. https://doi.org/10.1016/j.foodchem.2015.03.026

Bealer, E. J., Onissema-Karimu, S., Rivera-Galletti, A., Francis, M., Wilkowski, J., de la Cruz, D. S., & Hu, X. (2020, February 1). Protein-polysaccharide composite materials: Fabrication and applications. *Polymers*. MDPI AG. https://doi.org/10.3390/polym12020464

Bearth, A., Cousin, M.E., Siegrist, M., 2014. The consumer’s perception of artificial food additives: Influences on acceptance, risk and benefit percep- tions. *Food Quality and Preference* 38, 14–23. https://doi.org/10.1016/j.foodqual.2014.05.008

Beck, S.M., Knoerzer, K., Sellahewa, J., Emin, M.A., Arcot, J., 2017. Effect of different heat-treatment times and applied shear on secondary structure, molecular weight distribution, solubility and rheological properties of pea protein isolate as investigated by capillary rheometry. *Journal of Food Engineering 208*, 66–76.

Beinecke, C. R., & McFarland, V. L. (2012). US20120189751A1 - Meat-Like Product and its Method of Production. Retrieved from https://patents.justia.com/patent/20120189751

Bekard, I. B., Asimakis, P., Bertolini, J., & Dunstan, D. E. (2011). The effects of shear flow on protein structure and function. *Biopolymers*, *95*(11), n/a-n/a. https://doi.org/10.1002/bip.21646

BeMiller, J. N. (2018). *Carbohydrate chemistry for food scientists*. (- James N. BeMiller, Ed.), *Carbohydrate Chemistry for Food Scientists*. https://doi.org/10.1016/C2016-0-01960-5

Ben Jeddou, K., Bouaziz, F., Zouari-Ellouzi, S., Chaari, F., Ellouz-Chaabouni, S., Ellouz-Ghorbel, R., & Nouri-Ellouz, O. (2017). Improvement of texture and sensory properties of cakes by addition of potato peel powder with high level of dietary fiber and protein. *Food Chemistry*, *217*, 668–677. https://doi.org/10.1016/j.foodchem.2016.08.081

Berardy, A. (2012). *A Consequential Comparative Life Cycle Assessment of Seitan and Beef*. Retrieved from http://repository.asu.edu/attachments/82942/content/ASU\_SSEBE\_CESEM\_2012\_CPR\_002.pdf

Berghout, J. A. M., Boom, R. M., & van der Goot, A. J. (2015). Understanding the differences in gelling properties between lupin protein isolate and soy protein isolate. *Food Hydrocolloids*, *43*, 465–472. https://doi.org/10.1016/j.foodhyd.2014.07.003

Berghout, J.A.M., Pelgrom, P.J.M., Schutyser, M.A.I., Boom, R.M., van der Goot, A.J., 2015. Sustainability assessment of oilseed fractionation processes: A case study on lupin seeds. *Journal of Food Engineering* 150, 117–124.

Berghout, J. A. M., Venema, P., Boom, R. M., & Van der Goot, A. J. (2015). Comparing functional properties of concentrated protein isolates with freeze-dried protein isolates from lupin seeds. *Food Hydrocolloids*, *51*, 346–354. https://doi.org/10.1016/j.foodhyd.2015.05.017

Berghout, J. A. M. M., Boom, R. M., & Van Der Goot, A. J. (2014). The potential of aqueous fractionation of lupin seeds for high-protein foods. *Food Chemistry*, *159*, 64–70. https://doi.org/10.1016/j.foodchem.2014.02.166

Berners-Lee, M., Hoolohan, C., Cammack, H., & Hewitt, C. N. (2012). The relative greenhouse gas impacts of realistic dietary choices. *Energy Policy*, *43*, 184–190. https://doi.org/10.1016/j.enpol.2011.12.054

Bessada, S. M. F., Barreira, J. C. M., & Oliveira, M. B. P. P. (2019). Pulses and food security: Dietary protein, digestibility, bioactive and functional properties. *Trends in Food Science & Technology*, *93*, 53–68. https://doi.org/10.1016/J.TIFS.2019.08.022

Beyond Meat, . Beyond Meat Burger. URL: https://www.beyondmeat. com/about/our-ingredients/.

Bhardwaj, N., & Kundu, S. C. (2010). Electrospinning: A fascinating fiber fabrication technique. *Biotechnology Advances*. https://doi.org/10.1016/j.biotechadv.2010.01.004

Bianchi, F., Aveyard, P., Astbury, N. M., Cook, B., Cartwright, E., & Jebb, S. A. (2019). Replacing meat with alternative plant-based products (RE-MAPs): protocol for a randomised controlled trial of a behavioural intervention to reduce meat consumption. *BMJ Open*, *9*(5), e027016. https://doi.org/10.1136/bmjopen-2018-027016

Biliaderis, C.G., Maurice, T.J., Vose, J.R., 1980. Starch gelatinization phenomena studied differential scanning calorimetry. *Journal of Food Science 45,* 1669–1674. https://doi.org/10.1111/j.1365-2621.1980.tb07586.x

Bis-Souza, C. V., Ozaki, M. M., Vidal, V. A. S., Pollonio, M. A. R., Penna, A. L. B., & Barretto, A. C. S. (2020). Can dietary fiber improve the technological characteristics and sensory acceptance of low-fat Italian type salami? *Journal of Food Science and Technology*, *57*(3), 1003–1012. https://doi.org/10.1007/s13197-019-04133-6

Blanco, E., Smoukov, S. K., Velev, O. D., & Velikov, K. P. (2016). Organic-inorganic patchy particles as a versatile platform for fluid-in-fluid dispersion stabilisation. *Faraday Discussions*, *191*(0), 73–88. https://doi.org/10.1039/c6fd00036c

Blonk Consultans. (2017). Environmental impact meat substitutes. Retrieved February 14, 2018, from http://www.blonkconsultants.nl/2017/12/07/environmental-impact-of-meat-substitutes/?lang=en

Blonk Consultants. (2017). Revealing the environmental impact of plant proteins. Retrieved February 14, 2018, from http://www.blonkconsultants.nl/2017/12/14/revealing-the-environmental-impact-of-plant-proteins/?lang=en

Blonk, H., Kool, A., & Luske, B. (2008). *Milieueffecten van Nederlandse consumptie van eiwit rijke producten. Gevolgen van vervanging van dierlijke eiwitten anno 2008*. Retrieved from https://www.partijvoordedieren.nl/download/Definitief\_rapport\_vs\_8okt2008.pdf

Bohrer, B. M. (2017). Review: Nutrient density and nutritional value of meat products and non-meat foods high in protein. *Trends in Food Science and Technology*, *65*, 103–112. https://doi.org/10.1016/j.tifs.2017.04.016

Bohrer, B. M. (2019). An investigation of the formulation and nutritional composition of modern meat analogue products. *Food Science and Human Wellness*. https://doi.org/10.1016/J.FSHW.2019.11.006

Boland, M. J., Rae, A. N., Vereijken, J. M., Meuwissen, M. P. M. M., Fischer, A. R. H. H., van Boekel, M. A. J. S. J. S., … Hendriks, W. H. (2013). The future supply of animal-derived protein for human consumption. *Trends in Food Science and Technology*, *29*(1), 62–73. https://doi.org/10.1016/j.tifs.2012.07.002

Bolognesi, V. J., & Garcia, C. E. R. (2018). Annatto Carotenoids as Additives Replacers in Meat Products. In *Alternative and Replacement Foods* (Vol. 17, pp. 355–384). Elsevier. https://doi.org/10.1016/B978-0-12-811446-9.00012-5

Bonku, R., & Yu, J. (2020, March 1). Health aspects of peanuts as an outcome of its chemical composition. *Food Science and Human Wellness*. Elsevier B.V. https://doi.org/10.1016/j.fshw.2019.12.005

Bonny, S. P. F., Gardner, G. E., Pethick, D. W., & Hocquette, J. F. (2015). What is artificial meat and what does it mean for the future of the meat industry? *Journal of Integrative Agriculture*, *14*(2), 255–263. https://doi.org/10.1016/S2095-3119(14)60888-1

Bookwalter, G. N., Mustakas, G. C., Kwolek, W. F., McGhee, J. E., & Albrecht, W. J. (1971). Full‐fat soy flour extrusion cooked: properties and food uses. *Journal of Food Science*, *36*(1), 5–9. https://doi.org/10.1111/j.1365-2621.1971.tb02019.x

Borderías, A. J., Tovar, C. A., Domínguez-Timón, F., Díaz, M. T., Pedrosa, M. M., & Moreno, H. M. (2020). Characterization of healthier mixed surimi gels obtained through partial substitution of myofibrillar proteins by pea protein isolates. *Food Hydrocolloids*, *107*, 105976. https://doi.org/10.1016/j.foodhyd.2020.105976

Bosmans, G. M., Lagrain, B., Deleu, L. J., Fierens, E., Hills, B. P., & Delcour, J. A. (2012). Assignments of proton populations in dough and bread using NMR relaxometry of starch, gluten, and flour model systems. *Journal of Agricultural and Food Chemistry*, *60*(21), 5461–5470. https://doi.org/10.1021/jf3008508

Bouasla, A., Wójtowicz, A., Zidoune, M. N., Olech, M., Nowak, R., Mitrus, M., & Oniszczuk, A. (2016). Gluten-Free Precooked Rice-Yellow Pea Pasta: Effect of Extrusion-Cooking Conditions on Phenolic Acids Composition, Selected Properties and Microstructure. *Journal of Food Science*, *81*(5), C1070–C1079. https://doi.org/10.1111/1750-3841.13287

Bourne, M. C. (2002). Texture, Viscosity, and Food. *Food Texture and Viscosity*, 1–32. https://doi.org/10.1016/B978-012119062-0/50001-2

Boye, J. I., Aksay, S., Roufik, S., Ribéreau, S., Mondor, M., Farnworth, E., & Rajamohamed, S. H. (2010). Comparison of the functional properties of pea, chickpea and lentil protein concentrates processed using ultrafiltration and isoelectric precipitation techniques. *Food Research International*, *43*(2), 537–546. https://doi.org/10.1016/j.foodres.2009.07.021

Boztuğ, Y., Juhl, H. J., Elshiewy, O., & Jensen, M. B. (2015). Consumer response to monochrome Guideline Daily Amount nutrition labels. *Food Policy*, *53*, 1–8. https://doi.org/10.1016/j.foodpol.2015.03.002

Bresciani, A., & Marti, A. (2019). Using Pulses in Baked Products: Lights, Shadows, and Potential Solutions. *Foods*, *8*(10), 451. https://doi.org/10.3390/foods8100451

Brishti, F. H., Zarei, M., Muhammad, S. K. S., Ismail-Fitry, M. R., Shukri, R., & Saari, N. (2017). Evaluation of the functional properties of mung bean protein isolate for development of textured vegetable protein. *International Food Research Journal*, *24*(4), 1595–1605.

Brishti, F. H., Chay, S. Y., Muhammad, K., Ismail-Fitry, M. R., Zarei, M., Karthikeyan, S., & Saari, N. (2020). Effects of drying techniques on the physicochemical, functional, thermal, structural and rheological properties of mung bean (Vigna radiata) protein isolate powder. *Food Research International*, *138*, 109783. https://doi.org/10.1016/j.foodres.2020.109783

Brishti, F.H., Yea, C.S., Muhammad, K., Ismail-Fitry, M.R., Zarei, M., Saari, N., 2020. Texturized mung bean protein as a sustainable food source: Effects of extrusion on its physical, textural and protein quality. *Innovative Food Science and Emerging Technologies* , 104743.

Broekema, R., Blonk, H., Alvarado, C., & Hegger, S. (2009). Milieukundige vergelijking van vleesvervangers. *Blonk Milieu Advies, Gouda*. Retrieved from http://www.blonkconsultants.nl/wp-content/uploads/2016/06/milieukundige\_vergelijking\_vleesvervangers.pdf

Brückner-Gühmann, M., Banovic, M., & Drusch, S. (2019). Towards an increased plant protein intake: Rheological properties, sensory perception and consumer acceptability of lactic acid fermented, oat-based gels. *Food Hydrocolloids*, *96*, 201–208. https://doi.org/10.1016/J.FOODHYD.2019.05.016

Bruinsma, J. (2009). The Resource Outlook to 2050 - By how much do land, water use and crop yields need to increase by 2050? In *How to Feed the World in 2050* (pp. 24–26). https://doi.org/10.1016/B978-0-323-10199-8.00006-2

Bryant, C., Szejda, K., Parekh, N., Deshpande, V., & Tse, B. (2019). A Survey of Consumer Perceptions of Plant-Based and Clean Meat in the USA, India, and China. *Frontiers in Sustainable Food Systems*, *3*, 11. https://doi.org/10.3389/fsufs.2019.00011

Bučko, S., Katona, J., Popović, L., Vaštag, Ž., Petrović, L., & Vučinić–Vasić, M. (2015). Investigation on solubility, interfacial and emulsifying properties of pumpkin (Cucurbita pepo) seed protein isolate. *LWT - Food Science and Technology*, *64*(2), 609–615. https://doi.org/10.1016/J.LWT.2015.06.054

Bühler, J. M., Dekkers, B. L., Bruins, M. E., & van der Goot, A. J. (2020). Modifying Faba Bean Protein Concentrate Using Dry Heat to Increase Water Holding Capacity. *Foods*, *9*(8), 1077. https://doi.org/10.3390/foods9081077

Bühler, J.M., van der Goot, A.J., Bruins, M.E., 2021. Quantifying Water Distribution between Starch and Protein in Doughs and Gels from Mildly Refined Faba Bean Fractions.

Bujnowski, D., Xun, P., Daviglus, M. L., Van Horn, L., He, K., & Stamler, J. (2011). Longitudinal Association between Animal and Vegetable Protein Intake and Obesity among Men in the United States: The Chicago Western Electric Study. *Journal of the American Dietetic Association*, *111*(8). https://doi.org/10.1016/j.jada.2011.05.002

Buttlar, B., & Walther, E. (2019). Dealing with the meat paradox: Threat leads to moral disengagement from meat consumption. *Appetite*, *137*, 73–80. https://doi.org/10.1016/J.APPET.2019.02.017

Butz, E. L. (1974). World protein markets-a supplier’s view. *Journal of the American Oil Chemists’ Society*, *51*(1Part1), 57A-58A. https://doi.org/10.1007/BF02542091

Cadesky, L., Walkling-Ribeiro, M., Kriner, K. T., Karwe, M. V, & Moraru, C. I. (2017). Structural changes induced by high-pressure processing in micellar casein and milk protein concentrates. *J. Dairy Sci*, *100*(September). https://doi.org/10.3168/jds.2016-12072

Calvo, M. M., García, M. L., & Selgas, M. D. (2008). Dry fermented sausages enriched with lycopene from tomato peel. *Meat Science*, *80*(2), 167–172. https://doi.org/10.1016/j.meatsci.2007.11.016

Câmara, A. K. F. I., Geraldi, M. V., Okuro, P. K., Maróstica, M. R., da Cunha, R. L., & Pollonio, M. A. R. (2020). Satiety and in vitro digestibility of low saturated fat Bologna sausages added of chia mucilage powder and chia mucilage-based emulsion gel. *Journal of Functional Foods*, *65*, 103753. https://doi.org/10.1016/j.jff.2019.103753

Câmara, A. K. F. I., Okuro, P. K., Cunha, R. L. da, Herrero, A. M., Ruiz-Capillas, C., & Pollonio, M. A. R. (2020). Chia (Salvia hispanica L.) mucilage as a new fat substitute in emulsified meat products: Technological, physicochemical, and rheological characterization. *LWT*, *125*, 109193. https://doi.org/10.1016/j.lwt.2020.109193

Camp, B., & Lawrence, N. S. (2019). Giving pork the chop: Response inhibition training to reduce meat intake. *Appetite*, *141*, 104315. https://doi.org/10.1016/J.APPET.2019.06.007

Campagnol, P. C. B., dos Santos, B. A., Wagner, R., Terra, N. N., & Rodrigues Pollonio, M. A. (2012). Amorphous cellulose gel as a fat substitute in fermented sausages. *Meat Science*, *90*(1), 36–42. https://doi.org/10.1016/j.meatsci.2011.05.026

Campbell, K. A., & Glatz, C. E. (2009). Mechanisms of aqueous extraction of soybean oil. *Journal of Agricultural and Food Chemistry*, *57*(22), 10904–10912. https://doi.org/10.1021/jf902298a

Campbell, K. A., & Glatz, C. E. (2010). Protein recovery from enzyme-assisted aqueous extraction of soybean. *Biotechnology Progress*, *26*(2), 488–495. https://doi.org/10.1002/btpr.341

Candogan, K., & Kolsarici, N. (2003). The effects of carrageenan and pectin on some quality characteristics of low-fat beef frankfurters. *Meat Science*, *64*(2), 199–206. https://doi.org/10.1016/S0309-1740(02)00181-X

Caporgno, M. P., Böcker, L., Müssner, C., Stirnemann, E., Haberkorn, I., Adelmann, H., … Mathys, A. (2020). Extruded meat analogues based on yellow, heterotrophically cultivated Auxenochlorella protothecoides microalgae. *Innovative Food Science and Emerging Technologies*, *59*, 102275. https://doi.org/10.1016/j.ifset.2019.102275

Caporgno, M. P., & Mathys, A. (2018). Trends in Microalgae Incorporation Into Innovative Food Products With Potential Health Benefits. *Frontiers in Nutrition*, *5*, 58. https://doi.org/10.3389/fnut.2018.00058

Carballo, J., Barreto, G., Jimenez Colmenero, F., 1995. Starch and Egg White lnfluence on Properties of Bologna Sausage as Related to Fat Con- tent. *Journal of Food Science* 60, 673–677. https://doi.org/10.1111/j.1365-2621.1995.tb06204.x

Cargill, 2020. SimPure Product Overview. URL: https://www.cargill.com/doc/1432138906297/simpure-product-overview.pdf.

Carrington, D. (2018, April 30). The new food: meet the startups racing to reinvent the meal | Environment | The Guardian. Retrieved June 15, 2020, from https://www.theguardian.com/environment/2018/apr/30/lab-grown-meat-how-a-bunch-of-geeks-scared-the-meat-industry

Carvalho, C.W.P., Onwulata, C.I., Tomasula, P.M., 2007. Rheological properties of starch and whey protein isolate gels. *Food Science and Technology International 13*, 207–216. https://doi.org/10.1177/1082013207079897

Cassidy, E. S., West, P. C., Gerber, J. S., & Foley, J. A. (2013). Redefining agricultural yields: From tonnes to people nourished per hectare. *Environmental Research Letters*, *8*(3). <https://doi.org/10.1088/1748-9326/8/3/034015>

Castiglioni, A., Jonkman, J., Akkerman, R., van der Padt, A., 2018. Selection of fractionation pathways and intermediates for mixed consumer products, in: *Computer Aided Chemical Engineering. volume 43*, pp. 651–656.

Castro-Enríquez, D. D., Rodríguez-Félix, F., Ramírez-Wong, B., Torres-Chávez, P. I., Castillo-Ortega, M. M., Rodríguez-Félix, D. E., … Ledesma-Osuna, A. I. (2012). Preparation, characterization and release of urea from wheat gluten electrospun membranes. *Materials*, *5*(12), 2903–2916. https://doi.org/10.3390/ma5122903

Cavallini, V., Hargarten, P. G., & Joehnke, J. (2004). EP1493337A3 - Vegetable protein meat analogue. Retrieved from https://patents.google.com/patent/EP1493337A3/en

CBINSIGHTS. (2017). Our Meatless Future: How The $90B Global Meat Market Gets Disrupted. Retrieved February 16, 2018, from https://www.cbinsights.com/research/future-of-meat-industrial-farming/

Central, F. (2020). FoodData Central. Retrieved February 26, 2020, from https://fdc.nal.usda.gov/fdc-app.html#/food-details/172423/nutrients

Chalupa-Krebzdak, S., Long, C. J., & Bohrer, B. M. (2018). Nutrient density and nutritional value of milk and plant-based milk alternatives. *International Dairy Journal*, *87*, 84–92. https://doi.org/10.1016/j.idairyj.2018.07.018

Chambi, H., & Grosso, C. (2006). Edible films produced with gelatin and casein cross-linked with transglutaminase. *Food Research International*, *39*(4), 458–466. https://doi.org/10.1016/j.foodres.2005.09.009

Chan, E. Y., & Zlatevska, N. (2019). Is Meat Sexy? Meat Preference as a Function of the Sexual Motivation System Psychology of religion View project Is meat sexy? Meat preference as a function of the sexual motivation system. *Food Quality and Preference*, *74*, 78–87. https://doi.org/10.1016/j.foodqual.2019.01.008

Chapleau, N., & De Lamballerie-Anton, M. (2003). Improvement of emulsifying properties of lupin proteins by high pressure induced aggregation. *Food Hydrocolloids*, *17*(3), 273–280. https://doi.org/10.1016/S0268-005X(02)00077-2

Chatterjee, D., Brambila, G. S., Bowker, B. C., & Zhuang, H. (2019). Effect of Tapioca Flour on Physicochemical Properties and Sensory Descriptive Profiles of Chicken Breast Meat Patties. *Journal of Applied Poultry Research*, *28*(3), 598–605. https://doi.org/10.3382/japr/pfy076

Cheftel, J. C., Kitagawa, M., Quéguiner, C., & Queguiner, C. (1992). New Protein Texturization Processes by Extrusion Cooking at High Moisture Levels. *Food Reviews International*, *8*(2), 235–275. https://doi.org/10.1080/87559129209540940

Chen, F. L., Wei, Y. M., Zhang, B., & Ojokoh, A. O. (2010). System parameters and product properties response of soybean protein extruded at wide moisture range. *Journal of Food Engineering*, *96*(2), 208–213. <https://doi.org/10.1016/j.jfoodeng.2009.07.014>

Chen, F.L., Wei, Y.M., Zhang, B., 2011. Chemical cross-linking and molecular aggregation of soybean protein during extrusion cooking at low and high moisture content. *LWT - Food Science and Technology 44*, 957–962.

Chen, N., Zhao, M., & Sun, W. (2013). Effect of protein oxidation on the in vitro digestibility of soy protein isolate. *Food Chemistry*, *141*(3), 3224–3229. https://doi.org/10.1016/j.foodchem.2013.05.113

Chen, X. W., Fu, S. Y., Hou, J. J., Guo, J., Wang, J. M., & Yang, X. Q. (2016). Zein based oil-in-glycerol emulgels enriched with β-carotene as margarine alternatives. *Food Chemistry*, *211*, 836–844. https://doi.org/10.1016/j.foodchem.2016.05.133

Chen, Y., Xinsong, L., & Tangying, S. (2007). Electrospinning and crosslinking of zein nanofiber mats. *Journal of Applied Polymer Science*, *103*(1), 380–385. <https://doi.org/10.1002/app.24619>

Chen, Q., Zhang, J., Zhang, Y., Meng, S., Wang, Q., 2021. Rheological properties of pea protein isolate-amylose/amylopectin mixtures and the application in the high-moisture extruded meat substitutes. *Food Hydrocolloids 117,* 106732.

Chen, J.S., Lee, C.M., Crapo, C., 1993. Linear Programming and Response Surface Methodology to Optimize Surimi Gel Texture. *Journal of Food Science* 58, 535–536.

Cheney, E. J. (2000). *US4196222A*. Retrieved from https://patents.google.com/patent/US4196222A/en

Chiang, J. H., Hardacre, A. K., & Parker, M. E. (2020). Effects of Maillard‐reacted beef bone hydrolysate on the physicochemical properties of extruded meat alternatives. *Journal of Food Science*, *85*(3), 567–575. https://doi.org/10.1111/1750-3841.14960

Chillo, S., Laverse, J., Falcone, P. M., & Del Nobile, M. A. (2008). Quality of spaghetti in base amaranthus wholemeal flour added with quinoa, broad bean and chick pea. *Journal of Food Engineering*, *84*(1), 101–107. https://doi.org/10.1016/J.JFOODENG.2007.04.022

Cho, D., Nnadi, O., Netravali, A., & Joo, Y. L. (2010). Electrospun hybrid soy protein/PVA fibers. *Macromolecular Materials and Engineering*, *295*(8), 763–773. https://doi.org/10.1002/mame.201000161

Choe, J., Lee, J., Jo, K., Jo, C., Song, M., & Jung, S. (2018). Application of winter mushroom powder as an alternative to phosphates in emulsion-type sausages. *Meat Science*, *143*, 114–118. https://doi.org/10.1016/j.meatsci.2018.04.038

Chriki, S., & Hocquette, J.-F. (2020). The Myth of Cultured Meat: A Review. *Frontiers in Nutrition*, *7*, 7. https://doi.org/10.3389/fnut.2020.00007

Claeys, E., De Smet, S., Balcaen, A., Raes, K., & Demeyer, D. (2004). Quantification of fresh meat peptides by SDS-PAGE in relation to ageing time and taste intensity. *Meat Science*, *67*(2), 281–288. https://doi.org/10.1016/j.meatsci.2003.11.001

Clarke, E., & Wiseman, J. (2007). Effects of extrusion conditions on trypsin inhibitor activity of full fat soybeans and subsequent effects on their nutritional value for young broilers. *British Poultry Science*, *48*(6), 703–712. https://doi.org/10.1080/00071660701684255

Clay, J. (2011). Freeze the footprint of food. *Nature*, *475*(7356), 287–289. https://doi.org/10.1038/475287a

Clifton, P. M. (2011). Protein and coronary heart disease: The role of different protein sources. *Current Atherosclerosis Reports*, *13*(6), 493–498. https://doi.org/10.1007/s11883-011-0208-x

Coda, R., Melama, L., Rizzello, C. G., Curiel, J. A., Sibakov, J., Holopainen, U., … Sozer, N. (2015). Effect of air classification and fermentation by Lactobacillus plantarum VTT E-133328 on faba bean (Vicia faba L.) flour nutritional properties. *International Journal of Food Microbiology*, *193*, 34–42. https://doi.org/10.1016/j.ijfoodmicro.2014.10.012

Coelho, M. S., & Salas-Mellado, M. de las M. (2018). How extraction method affects the physicochemical and functional properties of chia proteins. *LWT*, *96*, 26–33. https://doi.org/10.1016/j.lwt.2018.05.010

Coles, G. D., Wratten, S. D., & Porter, J. R. (2016). Food and nutritional security requires adequate protein as well as energy, delivered from whole-year crop production. *PeerJ*, *4*, e2100. https://doi.org/10.7717/peerj.2100

Collar, C. (2018). Gluten-free dough-based foods and technologies. In *Sorghum and Millets: Chemistry, Technology, and Nutritional Attributes* (pp. 331–354). Elsevier. https://doi.org/10.1016/B978-0-12-811527-5.00011-3

Cooper, D., Doucet, L., & Pratt, M. (2007). Understanding in multinational organizations. *Journal of Organizational Behavior*, *28*(3), 303–325. https://doi.org/10.1002/j

Cornet, S.H.V., Bu¨hler, J.M., Gon¸calves, R., Bruins, M.E., van der Sman, R.G.M., van der Goot, A.J., 2021a. Apparent universality of leguminous proteins in swelling and fibre formation when mixed with gluten. *Food Hydrocolloids 120,* 106788.

Cornet, S.H.V., van der Goot, A.J., van der Sman, R.G.M., 2020. Effect of mechanical interaction on the hydration of mixed soy protein and gluten gels. Current Research in *Food Science 3,* 134–145.

Cornet, S. H. V., Snel, S. J. E., Schreuders, F. K. G., van der Sman, R. G. M., Beyrer, M., & van der Goot, A. J. (2020). Thermo-mechanical processing of plant proteins using shear cell and high-moisture extrusion cooking. *Critical Reviews in Food Science and Nutrition*, 1–18. https://doi.org/10.1080/10408398.2020.1864618

Cornet, S. H. V., Edwards, D., van der Goot, A. J., & van der Sman, R. G. M. (2020). Water release kinetics from soy protein gels and meat analogues as studied with confined compression. *Innovative Food Science & Emerging Technologies*, 102528. https://doi.org/10.1016/j.ifset.2020.102528

Corredig, M., Young, N., & Dalsgaard, T. K. (2020). Food proteins: processing solutions and challenges. *Current Opinion in Food Science*. https://doi.org/10.1016/j.cofs.2019.12.010

Corrin, T., & Papadopoulos, A. (2017). Understanding the attitudes and perceptions of vegetarian and plant-based diets to shape future health promotion programs. *Appetite*. https://doi.org/10.1016/j.appet.2016.11.018

Corsato Alvarenga, I., & Aldrich, C. (2019). The Effect of Increasing Levels of Dehulled Faba Beans (Vicia faba L.) on Extrusion and Product Parameters for Dry Expanded Dog Food. *Foods*. https://doi.org/10.3390/foods8010026

Craig, W. J. (2010). Nutrition Concerns and Health Effects of Vegetarian Diets. *Nutrition in Clinical Practice*, *25*(6), 613–620. https://doi.org/10.1177/0884533610385707

Crowe, T. W., & Johnson, L. A. (2001). Twin-screw extrusion texturization of extruded-expelled soybean flour. *JAOCS, Journal of the American Oil Chemists’ Society*, *78*(8), 781–786. https://doi.org/10.1007/s11746-001-0342-8

Cui, L., Bandillo, N., Wang, Y., Ohm, J. B., Chen, B., & Rao, J. (2020). Functionality and structure of yellow pea protein isolate as affected by cultivars and extraction pH. *Food Hydrocolloids*, *108*, 106008. https://doi.org/10.1016/j.foodhyd.2020.106008

Cunha, C. R., Dias, A. I., & Viotto, W. H. (2010). Microstructure, texture, colour and sensory evaluation of a spreadable processed cheese analogue made with vegetable fat. *Food Research International*, *43*(3), 723–729. https://doi.org/10.1016/j.foodres.2009.11.009

Czerny, M., Christlbauer, M., Christlbauer, M., Fischer, A., Granvogl, M., Hammer, M., … Schieberle, P. (2008). Re-investigation on odour thresholds of key food aroma compounds and development of an aroma language based on odour qualities of defined aqueous odorant solutions. *European Food Research and Technology*, *228*(2), 265–273. https://doi.org/10.1007/s00217-008-0931-x

Da Silva, L. H., Celeghini, R. M. S., & Chang, Y. K. (2011). Effect of the fermentation of whole soybean flour on the conversion of isoflavones from glycosides to aglycones. *Food Chemistry*, *128*(3), 640–644. https://doi.org/10.1016/j.foodchem.2011.03.079

Dagevos, H., & Voordouw, J. (2013). Sustainability and meat consumption: is reduction realistic? *Sustainability: Science, Practice, & Policy*, *9*(2), 1031–1207. https://doi.org/10.1080/15487733.2013.11908115

Dai, T., Li, T., Li, R., Zhou, H., Liu, C., Chen, J., & McClements, D. J. (2020). Utilization of plant-based protein-polyphenol complexes to form and stabilize emulsions: Pea proteins and grape seed proanthocyanidins. *Food Chemistry*, *329*, 127219. https://doi.org/10.1016/j.foodchem.2020.127219

Dakhili, S., Abdolalizadeh, L., Hosseini, S. M., Shojaee-Aliabadi, S., & Mirmoghtadaie, L. (2019). Quinoa protein: Composition, structure and functional properties. *Food Chemistry*, *299*, 125161. https://doi.org/10.1016/j.foodchem.2019.125161

Dang Van, Q. C., Bejarano, L., Mignolet, E., Coulmier, D., Froidmont, E., Larondelle, Y., … Focant, M. (2011). Effectiveness of extruded rapeseed associated with an alfalfa protein concentrate in enhancing the bovine milk fatty acid composition. *Journal of Dairy Science*, *94*(8), 4005–4015. https://doi.org/10.3168/jds.2011-4204

Dangi, P., Chaudhary, N., & Khatkar, B. S. (2019). Rheological and microstructural characteristics of low molecular weight glutenin subunits of commercial wheats. *Food Chemistry*, *297*, 124989. https://doi.org/10.1016/j.foodchem.2019.124989

Dapčević-Hadnađev, T., Dizdar, M., Pojić, M., Krstonošić, V., Zychowski, L. M., & Hadnađev, M. (2019). Emulsifying properties of hemp proteins: Effect of isolation technique. *Food Hydrocolloids*, *89*, 912–920. https://doi.org/10.1016/j.foodhyd.2018.12.002

Dapčević-Hadnađev, T., Hadnađev, M., Lazaridou, A., Moschakis, T., & Biliaderis, C. G. (2018). Hempseed meal protein isolates prepared by different isolation techniques. Part II. gelation properties at different ionic strengths. *Food Hydrocolloids*, *81*, 481–489. https://doi.org/10.1016/j.foodhyd.2018.03.022

Das, S.K., Prabhakaran, P., Tanwar, V.K., Biswas, S., 2015. Effect of some plant starches and carrageenan as fat substitutes in chicken patties1. *Journal of Animal Science 93*, 3704–3712.

David Alexander, Rees, K., Karslake, J., & Lempriere, P. (2004). *US20050196502A1*. Retrieved from https://patents.google.com/patent/US20050196502

Davies, J., & Lightowler, H. (1998). Plant-based alternatives to meat. *Nutrition & Food Science*. https://doi.org/10.1108/00346659810201050

Davis, J., Sonesson, U., Baumgartner, D. U., & Nemecek, T. (2010). Environmental impact of four meals with different protein sources: Case studies in Spain and Sweden. *Food Research International*, *43*(7), 1874–1884. https://doi.org/10.1016/j.foodres.2009.08.017

Day, L. (2011). Wheat gluten: production, properties and application. *Handbook of Food Proteins*, 267–288. https://doi.org/10.1533/9780857093639.267

Day, L., & Swanson, B. G. (2013). Functionality of protein-fortified extrudates. *Comprehensive Reviews in Food Science and Food Safety*, *12*(5), 546–564. https://doi.org/10.1111/1541-4337.12023

de Bakker, E., & Dagevos, H. (2012). Reducing Meat Consumption in Today’s Consumer Society: Questioning the Citizen-Consumer Gap. *Journal of Agricultural and Environmental Ethics*, *25*(6), 877–894. https://doi.org/10.1007/s10806-011-9345-z

de Boer, J., Schösler, H., & Aiking, H. (2017). Towards a reduced meat diet: Mindset and motivation of young vegetarians, low, medium and high meat-eaters. *Appetite*, *113*, 387–397. https://doi.org/10.1016/j.appet.2017.03.007

De Vegetarische Slager, a. De Vegetarische Slager MC2 Burger. URL: https://www.ah.nl/producten/product/wi226706/ vegetarische-slager-mc2-burger.

De Vegetarische Slager, b. De Vegetarishe Slager Visvrije Tonyn. URL: https://www.ah.nl/producten/product/wi445911/ vegetarische-slager-visvrije-tonyn.

Degenhardt, A., & Winterhalter, P. (2001). Isolation and purification of isoflavones from soy flour by high-speed countercurrent chromatography. *European Food Research and Technology*, *213*(4–5), 277–280. https://doi.org/10.1007/s002170100386

Dekkers, B., Emin, M., Boom, R., van der Goot, A., 2018. The phase prop- erties of soy protein and wheat gluten in a blend for fibrous structure formation. *Food Hydrocolloids 79*, 273–281.

Dekkers, B.L., de Kort, D.W., Grabowska, K.J., Tian, B., van As, H., van der Goot, A.J., 2016a. A combined rheology and time domain NMR approach for determining water distributions in protein blends. *Food Hydrocolloids 60*, 525–532.

Dekkers, B. L., Boom, R. M., & van der Goot, A. J. (2018). Structuring processes for meat analogues. *Trends in Food Science and Technology*, *81*, 25–36. https://doi.org/10.1016/j.tifs.2018.08.011

Dekkers, B.L., Nikiforidis, C.V., van der Goot, A.J., 2016b. Shear-induced fibrous structure formation from a pectin/SPI blend. *Innovative Food Science and Emerging Technologies 36,* 193–200.

Dekkers, B. L., Hamoen, R., Boom, R. M., & van der Goot, A. J. (2018). Understanding fiber formation in a concentrated soy protein isolate - pectin blend. *Journal of Food Engineering*, *222*, 84–92. https://doi.org/10.1016/j.jfoodeng.2017.11.014

Dekkers, B. L., & Jan Van Der Goot, A. (2018). Chapter 21: Novel Processing Concepts for Making Fibrous Food Products. In *RSC Green Chemistry*. https://doi.org/10.1039/9781788010320-00462

Delgado, C. L., Rosegrant, M., Steinfeld, H., Ehui, S., & Courbois, C. (2001). Livestock to 2020: the next food revolution. *Outlook on Agriculture*, *30*(1), 27–29. https://doi.org/10.5367/000000001101293427

Demirci, Z. O., Yılmaz, I., & Demirci, A. Ş. (2014). Effects of xanthan, guar, carrageenan and locust bean gum addition on physical, chemical and sensory properties of meatballs. *Journal of Food Science and Technology*, *51*(5), 936–942. https://doi.org/10.1007/s13197-011-0588-5

Deora, N. S., Deswal, A., & Mishra, H. N. (2014, June 14). Alternative Approaches Towards Gluten-Free Dough Development: Recent Trends. *Food Engineering Reviews*. Springer New York LLC. https://doi.org/10.1007/s12393-014-9079-6

DeSantis, S. (n.d.). 20 of the Best Vegetarian Meals for Meat eaters. Retrieved February 16, 2018, from https://ohmyveggies.com/best-vegetarian-meals-for-meateaters/

Desmond, E.M., Troy, D.J., Buckley, D.J., 1998. The Effects of Tapioca Starch, Oat Fibre and Whey Protein on the Physical and Sensory Properties of Low-fat Beef Burgers. *LWT - Food Science and Technology 31*, 653–657.

Devnani, B., Ong, L., Kentish, S., & Gras, S. (2020). Heat induced denaturation, aggregation and gelation of almond proteins in skim and full fat almond milk. *Food Chemistry*. https://doi.org/10.1016/j.foodchem.2020.126901

Diaz, J. (2016, March). INGREDIENT MARKETING: A Clear Label Strategy for Food Additives. *THE WORLD OF FOOD INGREDIENTS*. Retrieved from https://www.tno.nl/media/8754/a\_clear\_label\_strategy\_for\_food\_additives.pdf

Diedericks, C. F., de Koning, L., Jideani, V. A., Venema, P., & van der Linden, E. (2019). Extraction, gelation and microstructure of Bambara groundnut vicilins. *Food Hydrocolloids*, *97*, 105226. https://doi.org/10.1016/j.foodhyd.2019.105226

Diedericks, C. F., Venema, P., Mubaiwa, J., Jideani, V. A., & van der Linden, E. (2020). Effect of processing on the microstructure and composition of Bambara groundnut (Vigna subterranea (L.) Verdc.) seeds, flour and protein isolates. *Food Hydrocolloids*, *108*, 106031. https://doi.org/10.1016/j.foodhyd.2020.106031

Djekic, I. (2015). ScienceDirect Environmental impact of meat industry – current status and future perspectives. *Procedia Food Science*, *5*(5), 61–64. https://doi.org/10.1016/j.profoo.2015.09.025

Domínguez, R., Gullón, P., Pateiro, M., Munekata, P. E. S., Zhang, W., & Lorenzo, J. M. (2020). Tomato as Potential Source of Natural Additives for Meat Industry. A Review. *Antioxidants*, *9*(1), 73. https://doi.org/10.3390/antiox9010073

Don, C., Lichtendonk, W., Plijter, J. J., & Hamer, R. J. (2003). Glutenin macropolymer: A gel formed by glutenin particles. *Journal of Cereal Science*, *37*(1), 1–7. https://doi.org/10.1006/jcrs.2002.0481

Dong, J., Asandei, A. D., & Parnas, R. S. (2010). Aqueous electrospinning of wheat gluten fibers with thiolated additives. *Polymer*, *51*(14), 3164–3172. https://doi.org/10.1016/j.polymer.2010.04.058

Dong, J., Hubel, A., Bischof, J. C., & Aksan, A. (2009). Freezing-induced phase separation and spatial microheterogeneity in protein solutions. *Journal of Physical Chemistry B*, *113*(30), 10081–10087. https://doi.org/10.1021/jp809710d

Doyle, M. P., & Beuchat, L. R. (2007). *Food Microbiology: Fundamentals and Frontiers, Third Edition*. *Food Microbiology: Fundamentals and Frontiers, Third Edition*. Washington, D.C.: American Society of Microbiology. https://doi.org/10.1128/9781555815912

Dreher, J., Blach, C., Terjung, N., Gibis, M., & Weiss, J. (2020). Influence of protein content on plant-based emulsified and crosslinked fat crystal networks to mimic animal fat tissue. *Food Hydrocolloids*, *106*, 105864. https://doi.org/10.1016/j.foodhyd.2020.105864

Drey, L. N., & O ’quinn, T. G. (1361). Kansas Agricultural Experiment Station Research Reports. *Kansas Agricultural Experiment Station Research Reports*, *34148*, 2378–5977. https://doi.org/10.4148/2378-5977.1361

Drosou, C. G., Krokida, M. K., & Biliaderis, C. G. (2017). Encapsulation of bioactive compounds through electrospinning/electrospraying and spray drying: A comparative assessment of food-related applications. *Drying Technology*, *35*(2), 139–162. https://doi.org/10.1080/07373937.2016.1162797

Drosou, C., Krokida, M., & Biliaderis, C. G. (2017). Composite pullulan-whey protein nanofibers made by electrospinning: Impact of process parameters on fiber morphology and physical properties. *Food Hydrocolloids*, 1–10. https://doi.org/10.1016/j.foodhyd.2017.11.014

Du, M., Xie, J., Gong, B., Xu, X., Tang, W., Li, X., … Xie, M. (2018). Extraction, physicochemical characteristics and functional properties of Mung bean protein. *Food Hydrocolloids*, *76*, 131–140. https://doi.org/10.1016/j.foodhyd.2017.01.003

Du, Y., Zhang, Q., Zhao, X., & Chen, F. (2020). Effect of reverse micelle on physicochemical properties of soybean 7S globulins. *Journal of Food Engineering*, *282*, 110026. https://doi.org/10.1016/j.jfoodeng.2020.110026

Duodu, K.G., Emmambux, M.N., 2018. Starch–Protein and Starch–Lipid Interactions and Their Effects on the Digestibility of Starch, in: Beta, T., Camire, M.E. (Eds.), Cereal Grain-based Functional Foods: Carbohydrate and Phytochemical Components. *Royal Society of Chemistry.* chapter 11, pp. 218–234.

Duque-Estrada, P., Kyriakopoulou, K., de Groot, W., van der Goot, A. J., & Berton-Carabin, C. C. (2020). Oxidative stability of soy proteins: From ground soybeans to structured products. *Food Chemistry*, *318*, 126499. https://doi.org/10.1016/j.foodchem.2020.126499

Dzudie, T., Scher, J., & Hardy, J. (2002). Common bean flour as an extender in beef sausages. *Journal of Food Engineering*, *52*(2), 143–147. https://doi.org/10.1016/S0260-8774(01)00096-6

Edwards, C. H., Ryden, P., Pinto, A. M., van der Schoot, A., Stocchi, C., Perez-Moral, N., … Ellis, P. R. (2020). Chemical, physical and glycaemic characterisation of PulseON®: A novel legume cell-powder ingredient for use in the design of functional foods. *Journal of Functional Foods*, *68*, 103918. https://doi.org/10.1016/j.jff.2020.103918

Egbert, R., & Borders, C. (2006). Achieving success with meat analogs. *Food Technology*, *60*(1), 28–34.

Egharevba, H.O., 2019. Chemical properties of starch and its application in the food industry, in: *Chemical Properties of Starch,* p. 26.

Elang, M., Liviawaty, E., & Rochima, E. (2018). *The Effect of Addition Mocaf Flour to the Preference Level of Gray Eel Catfish Sausage*. *World Scientific News* (Vol. 112). Scientific Publishing House „DARWIN”. Retrieved from www.worldscientificnews.com

Eliasson, A.C., 1983. Differential scanning calorimetry studies on wheat starch—gluten mixtures: I. Effect of gluten on the gelatinization of wheat starch*. Journal of Cereal Science 1*, 199–205.

Elsohaimy, S. A., Refaay, T. M., & Zaytoun, M. A. M. (2015). Physicochemical and functional properties of quinoa protein isolate. *Annals of Agricultural Sciences*, *60*(2), 297–305. https://doi.org/10.1016/j.aoas.2015.10.007

Elzerman, J. E., Hoek, A. C., van Boekel, M. A. J. S., & Luning, P. A. (2011). Consumer acceptance and appropriateness of meat substitutes in a meal context. *Food Quality and Preference*, *22*(3), 233–240. https://doi.org/10.1016/J.FOODQUAL.2010.10.006

Emin, M. A., Quevedo, M., Wilhelm, M., & Karbstein, H. P. (2017). Analysis of the reaction behavior of highly concentrated plant proteins in extrusion-like conditions. *Innovative Food Science and Emerging Technologies*, *44*, 15–20. https://doi.org/10.1016/j.ifset.2017.09.013

Emin, M. A. (2016). Extrusion. *Reference Module in Food Science*, 10–11. https://doi.org/10.1016/B978-0-08-100596-5.03413-2

Erdogan, I., Demir, M., & Bayraktar, O. (2015). Olive leaf extract as a crosslinking agent for the preparation of electrospun zein fibers. *Journal of Applied Polymer Science*, *132*(4). https://doi.org/10.1002/app.41338

Espert, M., Salvador, A., & Sanz, T. (2020). Cellulose ether oleogels obtained by emulsion-templated approach without additional thickeners. *Food Hydrocolloids*, *109*, 106085. https://doi.org/10.1016/j.foodhyd.2020.106085

Espinosa-Ramírez, J., Garzon, R., Serna-Saldivar, S. O., & Rosell, C. M. (2018). Functional and nutritional replacement of gluten in gluten-free yeast-leavened breads by using β-conglycinin concentrate extracted from soybean flour. *Food Hydrocolloids*. https://doi.org/10.1016/j.foodhyd.2018.06.021

Essers, M.K.H., Nagtegaal, R., Hu¨bner, F., Vallons, K.J.R., 2016. Ther- mally Modified Starch. URL: https://worldwide.espacenet.com/ publicationDetails/originalDocument?FT=D&date=20160225&DB= &locale=en\_EP&CC=US&NR=2016053027A1&KC=A1&ND=4.

Essers, M.K.H., Timmermans, J.W., Jetten, J.M., Slaghek, T.M., Oud- huis, A.A.C.M., Nagtegaal, R., 2019. Hydrothermally Modified Starch. URL: https://worldwide.espacenet.com/publicationDetails/originalDocument?FT=D&date=0190611&DB=&locale=en\_EP&CC=US&NR=10316107B2&KC=B2&ND=6.

Fabra, M. J., Lopez-Rubio, A., & Lagaron, J. M. (2015). Effect of the film-processing conditions, relative humidity and ageing on wheat gluten films coated with electrospun polyhydryalkanoate. *Food Hydrocolloids*, *44*, 292–299. https://doi.org/10.1016/j.foodhyd.2014.09.032

Fabra, M. J., López-Rubio, A., & Lagaron, J. M. (2015). Three-Layer Films Based on Wheat Gluten and Electrospun PHA. *Food and Bioprocess Technology*, *8*(11), 2330–2340. https://doi.org/10.1007/s11947-015-1590-0

Fabre, A. (1978). US4265917A - Binder compositions for texturized proteins and their use in the preparation of foodstuff. Retrieved from https://encrypted.google.com/patents/US4265917

Fan, J., Saito, M., Yanyan, Z., Szesze, T., Wang, L., Tatusmi, E., Li, L., 2005. Gel-forming Ability and Radical-scavenging Activity of Soy Protein Hydrolysate Treated with Transglutaminase. *Journal of Food Science 70*, C87–C92.

Fang, Y., Zhang, B., & Wei, Y. (2014). Effects of the specific mechanical energy on the physicochemical properties of texturized soy protein during high-moisture extrusion cooking. *Journal of Food Engineering*, *121*(1), 32–38. https://doi.org/10.1016/j.jfoodeng.2013.08.002

Farmer, L. J., & Mottram, D. S. (1990). Interaction of lipid in the maillard reaction between cysteine and ribose: The effect of a triglyceride and three phospholipids on the volatile products. *Journal of the Science of Food and Agriculture*, *53*(4), 505–525. https://doi.org/10.1002/jsfa.2740530409

Fasuan, T.O., Gbadamosi, S.O., Akanbi, C.T., 2018. Modification of ama- ranth ( Amaranthus viridis ) starch, identification of functional groups, and its potentials as fat replacer. *Journal of Food Biochemistry 42,* e12537.

Fehily, A. M. (2016). *Nutrition | Soy-Based Foods*. *Reference Module in Food Science* (2nd ed., Vol. 2). Elsevier Ltd. https://doi.org/10.1016/B978-0-08-100596-5.00066-4

Feiner, G. (2006). Burgers, patties and crumbed products. In *Meat Products Handbook* (pp. 481–498). Elsevier. https://doi.org/10.1533/9781845691721.2.481

Feldbrugge, A. H. R., Rankowitz, M. M., & Huste, A. (1973). *US3919435A*. Retrieved from https://patents.google.com/patent/US3919435

Fellet, M. (2015). A fresh take on fake meat. *ACS Central Science*, *1*(7), 347–349. https://doi.org/10.1021/acscentsci.5b00307

Fern´andez-Guti´errez, J.A., San Mart´ın-Mart´ınez, E., Mart´ınez-Bustos, F., Cruz-Orea, A., 2004. Physicochemical Properties of Casein-Starch Inter- action Obtained by Extrusion Process. *Starch - St¨arke 56*, 190–198.

Fernández-López, J., Lucas-González, R., Viuda-Martos, M., Sayas-Barberá, E., Ballester-Sánchez, J., Haros, C. M., … Pérez-Álvarez, J. A. (2020). Chemical and technological properties of bologna-type sausages with added black quinoa wet-milling coproducts as binder replacer. *Food Chemistry*, *310*, 125936. https://doi.org/10.1016/j.foodchem.2019.125936

Fernández-López, J., Viuda-Martos, M., & Pérez-Alvarez, J. A. (2021, August 1). Quinoa and chia products as ingredients for healthier processed meat products: technological strategies for their application and effects on the final product. *Current Opinion in Food Science*. Elsevier Ltd. https://doi.org/10.1016/j.cofs.2020.05.004

Fi Europe. (n.d.). Flexitarians drive surge in meat alternatives | Fi Europe. Retrieved February 14, 2018, from https://www.figlobal.com/fieurope/visit/news-and-updates/flexitarians-drive-surge-meat-alternatives

Filho, G. C. S., Vessoni Penna, T. C., & Schaffner, D. W. (2005). Microbiological quality of vegetable proteins during the preparation of a meat analog. *Italian Journal of Food Science*, *17*(3), 269–283.

Finnigan, T. J. A. (2011). *Mycoprotein: origins, production and properties*. *Handbook of Food Proteins*. Woodhead Publishing Limited. https://doi.org/10.1533/9780857093639.335

Flores, M. (2015). Sausages and Comminuted Products: Cooked Sausages. In *Encyclopedia of Food and Health* (pp. 722–727). Elsevier Inc. https://doi.org/10.1016/B978-0-12-384947-2.00613-9

Foegeding, E. A., & Davis, J. P. (2011). Food protein functionality: A comprehensive approach. *Food Hydrocolloids*, *25*(8), 1853–1864. https://doi.org/10.1016/j.foodhyd.2011.05.008

Foegeding, E. A., Stieger, M., & van de Velde, F. (2017). Moving from molecules, to structure, to texture perception. *Food Hydrocolloids*, *68*, 31–42. https://doi.org/10.1016/j.foodhyd.2016.11.009

Food Industry Excecutive. (2016). Flexitarian Lifestyle is New Trend. Retrieved February 16, 2018, from http://foodindustryexecutive.com/2016/07/flexitarian-lifestyle-is-new-trend/

Food ingredients 1st. (n.d.). Future Meat Substitutes: Industry Players Form R&D Partnership With Wageningen UR. Retrieved February 16, 2018, from http://www.foodingredientsfirst.com/news/Future-Meat-Substitutes-Industry-Players-Form-RD-Partnership-With-Wageningen-UR.html

Foschia, M., Horstmann, S. W., Arendt, E. K., & Zannini, E. (2017). Legumes as Functional Ingredients in Gluten-Free Bakery and Pasta Products. *Annual Review of Food Science and Technology*, *8*(1), 75–96. https://doi.org/10.1146/annurev-food-030216-030045

Franco, D., Martins, A. J., López‐Pedrouso, M., Cerqueira, M. A., Purriños, L., Pastrana, L. M., … Lorenzo, J. M. (2020). Evaluation of linseed oil oleogels to partially replace pork backfat in fermented sausages. *Journal of the Science of Food and Agriculture*, *100*(1), 218–224. https://doi.org/10.1002/jsfa.10025

Fraser, R., Davis, S. C., & Brown, P. O. (2015). *WO/2015/038796*. Retrieved from https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2015038796&recNum=1&maxRec=&office=&prevFilter=&sortOption=&queryString=&tab=PCT+Biblio

Fretzdorff, B., & Seiler, K. (1987). The effects of twin-screw extrusion cooking on cereal enzymes. *Journal of Cereal Science*, *5*(1), 73–82. https://doi.org/10.1016/S0733-5210(87)80012-7

Friedman, M., & Jürgens, H. S. (2000). Effect of pH on the stability of plant phenolic compounds. *Journal of Agricultural and Food Chemistry*, *48*(6), 2101–2110. https://doi.org/10.1021/jf990489j

Friel, S., Dangour, A. D., Garnett, T., ... Haines, A. (2009) Public health benefits of strategies to reduce greenhouse-gas emissions: food and agriculture. *The Lancet. 374*(9706), 2016-2025.

Gadema, Z., & Oglethorpe, D. (2011). The use and usefulness of carbon labelling food: A policy perspective from a survey of UK supermarket shoppers. *Food Policy*, *36*(6), 815–822. https://doi.org/10.1016/j.foodpol.2011.08.001

Galanakis, C. M. (2019). *Sustainable meat production and processing*. (C. M. Galanakis, Ed.). Elsevier Academic Press. https://doi.org/https://doi.org/10.1016/C2017-0-02230-9

Galante, M., De Flaviis, R., Boeris, V., & Spelzini, D. (2019). Effects of the enzymatic hydrolysis treatment on functional and antioxidant properties of quinoa protein acid-induced gels. *LWT*, *118*, 108845. https://doi.org/10.1016/J.LWT.2019.108845

Gallier, S., Vocking, K., Post, J. A., Van De Heijning, B., Acton, D., Van Der Beek, E. M., & Van Baalen, T. (2015). A novel infant milk formula concept: Mimicking the human milk fat globule structure. *Colloids and Surfaces B: Biointerfaces*, *136*, 329–339. https://doi.org/10.1016/j.colsurfb.2015.09.024

Garcia-Santos, M.d.S.L., Conceicao, F.S., Villa Boas, F., Salotti de Souza, B.M., Baretto, A.C.d.S., 2019. Effect of the addition of resistant starch in sausage with fat reduction on the physicochemical and sensory properties. *Food Science and Technology 39*, 491–497.

Gardein, a. Gardein Beefless Strips. URL: https://www.gardein.com/ beefless-and-porkless/classics/szechuan-beefless-strips.

Gardein, b. Gardein Beefless Tips. URL: https://www.gardein.com/ beefless-and-porkless/classics/beefless-tips.

Gardein, c. Gardein Chicken Strips. URL: https://www.gardein.com/ chickn/meatless-chicken-strips.

Garden Gourmet, . Garden Gourmet Schnitzel. URL:https://www.gardengourmet.de/veggie-klassiker/ garden-gourmet-vegetarische-wiener-schnitzel.

Gardner, C. D., Hartle, J. C., Garrett, R. D., Offringa, L. C., & Wasserman, A. S. (2019). Maximizing the intersection of human health and the health of the environment with regard to the amount and type of protein produced and consumed in the United States. *Nutrition Reviews*, *77*(4), 197–215. https://doi.org/10.1093/nutrit/nuy073

Garg, S. K., & Singh, D. S. (2010). Optimization of extrusion conditions for defatted soy-rice blend extrudates. *Journal of Food Science and Technology*, *47*(6), 606–612. https://doi.org/10.1007/s13197-010-0117-y

Garnett, T., Mathewson, S., Angelides, P., Borthwick, F., & House, C. (2015). *Policies and actions to shift eating patterns: What works?* Retrieved from http://africacsa.org/#proposed-

Gaudette, N. J., & Pietrasik, Z. (2017). The sensory impact of salt replacers and flavor enhancer in reduced sodium processed meats is matrix dependent. *Journal of Sensory Studies*, *32*(1), e12247. https://doi.org/10.1111/joss.12247

Geerts, M. E. J., Dekkers, B. L., van der Padt, A., & van der Goot, A. J. (2018). Aqueous fractionation processes of soy protein for fibrous structure formation. *Innovative Food Science & Emerging Technologies*, *45*, 313–319. https://doi.org/10.1016/j.ifset.2017.12.002

Geerts, M.E.J., van Veghel, A., Zisopoulos, F.K., van der Padt, A., van der Goot, A.J., 2018b. Exergetic comparison of three different processing routes for yellow pea (Pisum sativum): Functionality as a driver in sus- tainable process design. *Journal of Cleaner Production 183*, 979–987.

Gerard F.H. Kramer, H. B. (2016). Putting sustainable diets into practice | Food Science and Technology. Retrieved February 14, 2018, from http://fstjournal.org/features/30-2/sustainable-diets

Gharibzahedi, S. M. T., & Smith, B. (2020, April 1). The functional modification of legume proteins by ultrasonication: A review. *Trends in Food Science and Technology*. Elsevier Ltd. https://doi.org/10.1016/j.tifs.2020.02.002

Ghorpade, V. M., Bhatnagar, S., & Hanna, M. A. (1997). Structural characteristics of corn starches extruded with soy protein isolate or wheat gluten. *Plant Foods for Human Nutrition*, *51*(2), 109–124. https://doi.org/10.1023/A:1007951612581

Ghumman, A., Kaur, A., Singh, N., & Singh, B. (2016). Effect of feed moisture and extrusion temperature on protein digestibility and extrusion behaviour of lentil and horsegram. *LWT - Food Science and Technology*, *70*, 349–357. https://doi.org/10.1016/J.LWT.2016.02.032

Giese, J. (1996). Fats, oils, and fat replacers: Fats and oils play vital functional and sensory roles in food products. *Food Technology*, *50*(4), 78–83.

Giezen, F. G., Wilhelmus, W., Jansen, J. T., & Willemsen, J. H. A. (2021). WO2012158023A1 - Method of making structured protein compositions. Retrieved from https://patents.google.com/patent/WO2012158023A1/en

Giffard, C. (2003). EP1565068A1 - Meat analogue of authentic appearance. Retrieved from https://encrypted.google.com/patents/EP1565068A1?cl=fi&hl=en&output=html\_text

Giménez, M. A., Drago, S. R., De Greef, D., Gonzalez, R. J., Lobo, M. O., & Samman, N. C. (2012). Rheological, functional and nutritional properties of wheat/broad bean (Vicia faba) flour blends for pasta formulation. *Food Chemistry*, *134*(1), 200–206. https://doi.org/10.1016/J.FOODCHEM.2012.02.093

Girard, A. L., & Awika, J. M. (2020). Effects of edible plant polyphenols on gluten protein functionality and potential applications of polyphenol–gluten interactions. *Comprehensive Reviews in Food Science and Food Safety*, *19*(4), 2164–2199. https://doi.org/10.1111/1541-4337.12572

Global Panel on Agriculture and Food Systems for Nutrition. (2016). *Food systems and diets: Facing the challenges of the 21st century*. https://doi.org/http://glopan.org/sites/default/files/ForesightReport.pdf

GoodBite, a. GoodBite Hamblokjes. URL: https://www.goodbite.nl/ vegetarisch-product/goodbite-vegetarische-hamblokjes/.

GoodBite, b. GoodBite Verse Gehakt. URL: https://www.goodbite.nl/ vegetarisch-product/goodbite-vegetarisch-vers-gehakt/.

Gomez-Luciano, by, Aguiar, D., Alberto Gómez-Luciano, C., Kluwe de Aguiar, L., & Vriesekoop, F. (2019). Consumers’ willingness to purchase three alternatives to meat proteins in United Kingdom, Spain, the Dominican Republic and Brazil. *Food Quality and Preference*, *78*(103732), 1–10. https://doi.org/10.1016/j.foodqual.2019.103732

Goñi, I., & Valentín-Gamazo, C. (2003). Chickpea flour ingredient slows glycemic response to pasta in healthy volunteers. *Food Chemistry*, *81*(4), 511–515. https://doi.org/10.1016/S0308-8146(02)00480-6

Goot, A. J. van der, Pelgrom, P. J. M., Berghout, J. a. M., Geerts, M. E. J., Jankowiak, L., Hardt, N. A., … Boom, R. M. (2016). Concepts for further sustainable production of foods. *Journal of Food Engineering*, *168*, 42–51. https://doi.org/10.1016/j.jfoodeng.2015.07.010

Gorissen, S. H. M., Crombag, J. J. R., Senden, J. M. G., Waterval, W. A. H., Bierau, J., Verdijk, L. B., & van Loon, L. J. C. (2018). Protein content and amino acid composition of commercially available plant-based protein isolates. *Amino Acids*, *50*(12), 1685–1695. https://doi.org/10.1007/s00726-018-2640-5

Graça, J., Godinho, C. A., & Truninger, M. (2019). Reducing meat consumption and following plant-based diets: Current evidence and future directions to inform integrated transitions. *Trends in Food Science & Technology*, *91*, 380–390. https://doi.org/10.1016/J.TIFS.2019.07.046

Grabowska, K.J., Tekidou, S., Boom, R.M., van der Goot, A.J., 2014. Shear structuring as a new method to make anisotropic structures from soy- gluten blends. *Food Research International 64*, 743–751.

Grand View Research. (2016). Meat Substitutes Market Size Growth, Global Industry Report, 2022. Retrieved February 14, 2018, from https://www.grandviewresearch.com/industry-analysis/meat-substitutes-market

Gravelle, A. J., Barbut, S., & Marangoni, A. G. (2017). Food-grade filler particles as an alternative method to modify the texture and stability of myofibrillar gels. *Scientific Reports*, *7*(1). https://doi.org/10.1038/s41598-017-11711-1

Grigg, D. (1995). The nutritional transition in Western Europe. *Journal of Historical Geography*, *21*(3), 247–261. https://doi.org/10.1006/jhge.1995.0018

Grinberg, V. Y., & Tolstoguzov, V. B. (1997). Thermodynamic incompatibility of proteins and polysaccharides in solutions. *Food Hydrocolloids*, *11*(2), 145–158. https://doi.org/10.1016/S0268-005X(97)80022-7

Grossmann, L., Hinrichs, J., Goff, H. D., & Weiss, J. (2019). Heat-induced gel formation of a protein-rich extract from the microalga Chlorella sorokiniana. *Innovative Food Science and Emerging Technologies*, *56*, 102176. https://doi.org/10.1016/j.ifset.2019.06.001

Grunert, K. G., Hieke, S., & Wills, J. (2014). Sustainability labels on food products: Consumer motivation, understanding and use. *Food Policy*, *44*, 177–189. https://doi.org/10.1016/j.foodpol.2013.12.001

Grygiel-Górniak, B., & Puszczewicz, M. J. (2014). Diet in hyperuricemia and gout - Myths and facts. *Reumatologia*, *52*(4), 269–275. https://doi.org/10.5114/reum.2014.44707

Grzanich, S. S., Klapholz, S., Voccola, L. S., & Griffiths, M. R. (2015). *WO2015127388A1*. Retrieved from https://patents.google.com/patent/WO2015127388A1/en?assignee=IMPOSSIBLE+FOODS+INC.&page=1

Gu, B., Masli, M.D.P., Ganjyal, G.M., 2020. Whole faba bean flour exhibits unique expansion characteristics relative to the whole flours of lima, pinto, and red kidney beans during extrusion. *Journal of Food Science 85*, 404– 413.

Gu, J., Xin, Z., Meng, X., Sun, S., Qiao, Q., & Deng, H. (2016). A “reduced-pressure distillation” method to prepare zein-based fat analogue for application in mayonnaise formulation. *Journal of Food Engineering*, *182*, 1–8. https://doi.org/10.1016/j.jfoodeng.2016.01.026

Guerrero, P., Beatty, E., Kerry, J. P., & De La Caba, K. (2012). Extrusion of soy protein with gelatin and sugars at low moisture content. *Journal of Food Engineering*, *110*(1), 53–59. https://doi.org/10.1016/j.jfoodeng.2011.12.009

Guerrero, P., Kerry, J. P., & De La Caba, K. (2014). FTIR characterization of protein-polysaccharide interactions in extruded blends. *Carbohydrate Polymers*, *111*, 598–605. https://doi.org/10.1016/j.carbpol.2014.05.005

Gui, Y., Li, J., Zhu, Y., & Guo, L. (2020). Roles of four enzyme crosslinks on structural, thermal and gel properties of potato proteins. *LWT*, *123*, 109116. https://doi.org/10.1016/j.lwt.2020.109116

Guichard, E., & Langourieux, S. (2000). Interactions between β-lactoglobulin and flavour compounds. In *Food Chemistry* (Vol. 71, pp. 301–308). Elsevier. https://doi.org/10.1016/S0308-8146(00)00181-3

Guinee, T. P. (2011). Cheese | Cheese Analogues. *Encyclopedia of Dairy Sciences*, (October), 814–821. https://doi.org/10.1016/B978-0-12-374407-4.00096-0

Gumming, D. B., Stanley, D. W., & DeMan, J. M. (1973). Fate of water soluble soy protein during thermoplastic extrusion. *Journal of Food Science*, *38*(2), 320–323. https://doi.org/10.1111/j.1365-2621.1973.tb01416.x

Gumus, C. E., Decker, E. A., & McClements, D. J. (2017). Formation and Stability of ω-3 Oil Emulsion-Based Delivery Systems Using Plant Proteins as Emulsifiers: Lentil, Pea, and Faba Bean Proteins. *Food Biophysics*, *12*(2), 186–197. https://doi.org/10.1007/s11483-017-9475-6

Gundogan, R., & Can Karaca, A. (2020). Physicochemical and functional properties of proteins isolated from local beans of Turkey. *LWT*, *130*, 109609. https://doi.org/10.1016/j.lwt.2020.109609

van Gunst, A., Roodenburg, A.J.C., 2019. Consumer Distrust about E- numbers: A Qualitative Study among Food Experts*. Foods 8,* 178.

Guo, J., Yang, X.-Q., He, X.-T., Wu, N.-N., Wang, J.-M., Gu, W., & Zhang, Y.-Y. (2012). Limited Aggregation Behavior of β-Conglycinin and Its Terminating Effect on Glycinin Aggregation during Heating at pH 7.0. *Journal of Agricultural and Food Chemistry*, 3782–3791. https://doi.org/10.1021/jf300409y

Guo, Z., Teng, F., Huang, Z., Lv, B., Lv, X., Babich, O., … Jiang, L. (2020). Effects of material characteristics on the structural characteristics and flavor substances retention of meat analogs. *Food Hydrocolloids*, *105*, 105752. https://doi.org/10.1016/j.foodhyd.2020.105752

Guy, R. C. . (2016). *Extrusion Technologies*. *Reference Module in Food Science* (2nd ed., Vol. 1). Elsevier Ltd. https://doi.org/10.1016/B978-0-08-100596-5.00144-X

Gwiazda, S., Noguchi, A., & Saio, K. (1987). Microstructural Studies of Texturized Vegetable Protein Products : Effects of Oil Addition and Transformation of Raw Materials in Various Sections of a Twin Screw Extruder. *Food Structure*, *6*(1), 57–61.

Habeych, E., Dekkers, B., van der Goot, A. J., & Boom, R. (2008). Starch-zein blends formed by shear flow. *Chemical Engineering Science*, *63*(21), 5229–5238. https://doi.org/10.1016/j.ces.2008.07.008

Habeych, E., Guo, X., van Soest, J., van der Goot, A.J., Boom, R.M., 2009. On the applicability of Flory-Huggins theory to ternary starch-water-solute systems. *Carbohydrate Polymers 77*, 703–712.

Hadnađev, M., Dapčević-Hadnađev, T., Lazaridou, A., Moschakis, T., Michaelidou, A. M., Popović, S., & Biliaderis, C. G. (2018). Hempseed meal protein isolates prepared by different isolation techniques. Part I. physicochemical properties. *Food Hydrocolloids*, *79*, 526–533. https://doi.org/10.1016/j.foodhyd.2017.12.015

Haidar, C. N., Coscueta, E., Cordisco, E., Nerli, B. B., & Malpiedi, L. P. (2018). Aqueous micellar two-phase system as an alternative method to selectively remove soy antinutritional factors. *LWT*, *93*, 665–672. https://doi.org/10.1016/j.lwt.2018.04.025

Hale, A. B., Carpenter, C. E., & Walsh, M. K. (2002). Instrumental and Consumer Evaluation of Beef Patties Extended with Extrusion-Textured Whey Proteins. *Journal of Food Science*, *67*(3), 1267–1270. https://doi.org/10.1111/j.1365-2621.2002.tb09488.x

Hamill, R., & Botineştean, C. (2016). Meat: Structure. *Encyclopedia of Food and Health*, 701–710. https://doi.org/10.1016/B978-0-12-384947-2.00451-7

Hamilton, M. N., & Ewing, C. E. (2000). *CA2314727C*. Retrieved from https://patents.google.com/patent/CA2314727C/en

Han, S.-W., Chee, K.-M., & Cho, S.-J. (2015). Nutritional quality of rice bran protein in comparison to animal and vegetable protein. *Food Chemistry*, *172*, 766–769. https://doi.org/10.1016/J.FOODCHEM.2014.09.127

Haque, M. A., Timilsena, Y. P., & Adhikari, B. (2016). *Food Proteins, Structure, and Function*. *Reference Module in Food Science*. Elsevier. https://doi.org/10.1016/B978-0-08-100596-5.03057-2

Harvey, F., & Phillips, D. (2020, July 16). A fifth of Brazilian soy in Europe is result of deforestation | Environment | The Guardian. Retrieved from https://www.theguardian.com/environment/2020/jul/16/a-fifth-of-brazilian-soy-in-europe-is-result-of-deforestation-amazon-jair-bolsonaro

Havlik, J., Plachy, V., Fernandez, J., & Rada, V. (2010). Dietary purines in vegetarian meat analogues. *Journal of the Science of Food and Agriculture*, *90*(14), 2352–2357. https://doi.org/10.1002/jsfa.4089

Hayes, A.M.R., Okoniewska, M., Martinez, M.M., Zhao, B., Hamaker, B.R., 2020. Investigating the potential of slow-retrograding starches to reduce staling in soft savory bread and sweet cake model systems. *Food Research International 138*, 109745.

He, J., Evans, N. M., Liu, H., & Shao, S. (2020). A review of research on plant‐based meat alternatives: Driving forces, history, manufacturing, and consumer attitudes. *Comprehensive Reviews in Food Science and Food Safety*, 1541-4337.12610. https://doi.org/10.1111/1541-4337.12610

He, J., Liu, H., Balamurugan, S., & Shao, S. (2021). Fatty acids and volatile flavor compounds in commercial plant‐based burgers. *Journal of Food Science*, 1750-3841.15594. https://doi.org/10.1111/1750-3841.15594

He, R., He, H. Y., Chao, D., Ju, X., & Aluko, R. (2014). Effects of High Pressure and Heat Treatments on Physicochemical and Gelation Properties of Rapeseed Protein Isolate. *Food and Bioprocess Technology*, *7*(5), 1344–1353. https://doi.org/10.1007/s11947-013-1139-z

He, Y., Kuhn, D. D., Ogejo, J. A., O’Keefe, S. F., Fraguas, C. F., Wiersema, B. D., … Huang, H. (2019). Wet fractionation process to produce high protein and high fiber products from brewer’s spent grain. *Food and Bioproducts Processing*, *117*, 266–274. https://doi.org/10.1016/J.FBP.2019.07.011

Heath, M. R., & Lucas, P. W. (1987). *Oral Perception of Texture*. *Food Structure: Its Creation and Evaluation*. Elsevier. https://doi.org/10.1533/9781845698348.465

Heinz, G., & Hautzinger, P. (2007). *Meat processing technology for small-to medium scale producers*. FAO Regional Office for Asia and the Pacific. Retrieved from http://www.fao.org/docrep/010/ai407e/AI407E00.htm

Henck, J. M. M., Bis-Souza, C. V, Pollonio, M. A. R., Lorenzo, J. M., & Barretto, A. C. S. (2019). Alpha-cyclodextrin as a new functional ingredient in low-fat chicken frankfurter. *British Poultry Science*, *60*(6), 716–723. https://doi.org/10.1080/00071668.2019.1664726

Heng, L., Van Koningsveld, G. A., Gruppen, H., Van Boekel, M. A. J. S., Vincken, J. P., Roozen, J. P., & Voragen, A. G. J. (2004). Protein-flavour interactions in relation to development of novel protein foods. *Trends in Food Science and Technology*. https://doi.org/10.1016/j.tifs.2003.09.018

Henry, R. C., Alexander, P., Rabin, S., Anthoni, P., Rounsevell, M. D. A., & Arneth, A. (2019). The role of global dietary transitions for safeguarding biodiversity. *Global Environmental Change*, *58*, 101956. https://doi.org/10.1016/j.gloenvcha.2019.101956

Herbach, K. M., Stintzing, F. C., & Carle, R. (2004). Impact of thermal treatment on color and pigment pattern of red beet (Beta vulgaris L.) preparations. *Journal of Food Science*, *69*(6). https://doi.org/10.1111/j.1365-2621.2004.tb10994.x

Hermansson, A. ‐M. (1985). Structure of soya glycinin and conglycinin gels. *Journal of the Science of Food and Agriculture*, *36*(9), 822–832. https://doi.org/10.1002/jsfa.2740360911

Hettiarachchy, N., Kannan, A., Schäfer, C., & Wagner, G. (2013). Gelling of Plant Based Proteins. In *Product Design and Engineering* (pp. 221–245). Weinheim, Germany: Wiley-VCH Verlag GmbH & Co. KGaA. https://doi.org/10.1002/9783527654741.ch8

Heusala, H., Sinkko, T., Sözer, N., Hytönen, E., Mogensen, L., & Knudsen, M. T. (2020). Carbon footprint and land use of oat and faba bean protein concentrates using a life cycle assessment approach. *Journal of Cleaner Production*. https://doi.org/10.1016/j.jclepro.2019.118376

Hickisch, A., Bindl, K., Vogel, R. F., & Toelstede, S. (2016). Thermal treatment of lupin-based milk alternatives – Impact on lupin proteins and the network of respective lupin-based yogurt alternatives. *Food Research International*, *89*, 850–859. https://doi.org/10.1016/j.foodres.2016.10.013

Hilbig, J., Gisder, J., Prechtl, R. M., Herrmann, K., Weiss, J., & Loeffler, M. (2019). Influence of exopolysaccharide-producing lactic acid bacteria on the spreadability of fat-reduced raw fermented sausages (Teewurst). *Food Hydrocolloids*. https://doi.org/10.1016/j.foodhyd.2019.01.056

Hilbig, J., Hartlieb, K., Gibis, M., Herrmann, K., & Weiss, J. (2020). Rheological and mechanical properties of alginate gels and films containing different chelators. *Food Hydrocolloids*, *101*, 105487. https://doi.org/10.1016/j.foodhyd.2019.105487

Hill, S. E., & Prusa, K. J. (1988). Physical and sensory properties of lean ground beef patties containing methylcellulose and hydroxypropulmethylcellulose. *Journal of Food Quality*, *11*(4), 331–337. https://doi.org/10.1111/j.1745-4557.1988.tb00893.x

Hjelm, L., Mielby, L. A., Gregersen, S., Eggers, N., & Bertram, H. C. (2019). Partial substitution of fat with rye bran fibre in Frankfurter sausages – Bridging technological and sensory attributes through inclusion of collagenous protein. *LWT*, *101*, 607–617. https://doi.org/10.1016/j.lwt.2018.11.055

Hoek, A. C. (2010). *Will Novel Protein Foods beat meat? Consumer acceptance of meat substitutes - a multidisciplinary research approach*. *Division of Human Nutrition* (Vol. Doctoral D).

Hoek, A. C., Elzerman, J. E., Hageman, R., Kok, F. J., Luning, P. A., & Graaf, C. de. (2013). Are meat substitutes liked better over time? A repeated in-home use test with meat substitutes or meat in meals. *Food Quality and Preference*, *28*(1), 253–263. https://doi.org/10.1016/j.foodqual.2012.07.002

Hoek, A. C., Luning, P. A., Weijzen, P., Engels, W., Kok, F. J., & de Graaf, C. (2011). Replacement of meat by meat substitutes. A survey on person- and product-related factors in consumer acceptance. *Appetite*, *56*(3), 662–673. https://doi.org/10.1016/j.appet.2011.02.001

Hofmann, T., & Schieberle, P. (1995). Evaluation of the Key Odorante in a Thermally Treated Solution of Ribose and Cysteine by Aroma Extract Dilution Techniques. *Journal of Agricultural and Food Chemistry*, *43*(8), 2187–2194. https://doi.org/10.1021/jf00056a042

Hollenbeck, J. J., Apple, J. K., Yancey, J. W. S., Johnson, T. M., Kerns, K. N., & Young, A. N. (2019). Cooked color of precooked ground beef patties manufactured with mature bull trimmings. *Meat Science*. https://doi.org/10.1016/j.meatsci.2018.09.018

Hong, G. P., & Chin, K. B. (2010). Effects of microbial transglutaminase and sodium alginate on cold-set gelation of porcine myofibrillar protein with various salt levels. *Food Hydrocolloids*, *24*(4), 444–451. https://doi.org/10.1016/j.foodhyd.2009.11.011

Hoover, R., Hannouz, D., Sosulski, F.W., 1988. Effects of Hydroxypropyla- tion on Themal Properties, Starch Digestibility and Freeze-Thaw Stability of Field Pea (Pisum sativum cv Trapper) Starch. *Starch - St¨arke 40*, 383– 387.

Horan, F. E., & Wolff, H. (1976). Meat Analogs-A Supplement. In *New Protein Foods* (pp. 260–279). Elsevier. https://doi.org/10.1016/b978-0-12-054802-6.50016-9

Howse, G., Sidhu, K., & Grex, D. (2003). *US20050008758A1*. Retrieved from https://patents.google.com/patent/US20050008758

Hsiao, Y. H., Yu, C. J., Li, W. T., & Hsieh, J. F. (2015). Coagulation of β-conglycinin, glycinin and isoflavones induced by calcium chloride in soymilk. *Scientific Reports*, *5*, 1–11. https://doi.org/10.1038/srep13018

Huber, G. R. (2000). *Twin-Screw Extruders*. *Extruders in Food Applications*. https://doi.org/10.1007/978-1-4684-1464-6

Hughes, G. J., Ryan, D. J., Mukherjea, R., & Schasteen, C. S. (2011). Protein Digestibility-Corrected Amino Acid Scores (PDCAAS) for Soy Protein Isolates and Concentrate: Criteria for Evaluation. *Journal of Agricultural and Food Chemistry*, *59*(23), 12707–12712. https://doi.org/10.1021/jf203220v

Huppertz, T., & Kelly, A. L. (2009). Physical chemistry of milk fat globules. In Fox F.P. (Ed.), *Advanced Dairy Chemistry. Developments in Dairy Chemistry—2* (Vol. 2, pp. 173–212). Dordrecht: Springer US. https://doi.org/10.1007/0-387-28813-9\_5

Hussein, L.A., 1982. Antinutritional Factors in Faba Beans, in: Faba Bean Improvement. Springer Netherlands, Dordrecht, pp. 333–341.

Imeson, A. (2009). *Food Stabilisers, Thickeners and Gelling Agents*. *Food Stabilisers, Thickeners and Gelling Agents*. https://doi.org/10.1002/9781444314724

Ingredion, 2020. NOVATION Endura 0100. URL: https://www.ingredion. com/apac/en-sg/ingredients/ingredient-product-families/ novation-clean-label-starch-range.html.

Innova Market Insights. (2017). *Meat substitutes: Subcategory Report H1 2017*. Retrieved from https://www.innovadatabase.com/

Jafari, M., Rajabzadeh, A.R., Tabtabaei, S., Marsolais, F., Legge, R.L., 2016. Physicochemical characterization of a navy bean (Phaseolus vulgaris) protein fraction produced using a solvent-free method. *Food Chemistry 208*, 35–41.

Jaeger, H., Janositz, A., & Knorr, D. (2010). The Maillard reaction and its control during food processing. The potential of emerging technologies. *Pathologie-Biologie*, *58*(3), 207–213. https://doi.org/10.1016/j.patbio.2009.09.016

Janssen, M., Busch, C., Rödiger, M., & Hamm, U. (2016). Motives of consumers following a vegan diet and their attitudes towards animal agriculture. *Appetite*, *105*, 643–651. https://doi.org/10.1016/j.appet.2016.06.039

Jaramillo, D. P., Roberts, R. F., & Coupland, J. N. (2011). Effect of pH on the properties of soy protein-pectin complexes. *Food Research International*, *44*(4), 911–916. https://doi.org/10.1016/j.foodres.2011.01.057

Jebalia, I., Maigret, J.E., R´eguerre, A.L., Novales, B., Guessasma, S., Lour- din, D., Della Valle, G., Kristiawan, M., 2019. Morphology and mechanical behaviour of pea-based starch-protein composites obtained by extrusion. *Carbohydrate Polymers 223*, 115086.

Jeewanthi, R. K. C., & Paik, H. D. (2018). Modifications of nutritional, structural, and sensory characteristics of non-dairy soy cheese analogs to improve their quality attributes. *Journal of Food Science and Technology*, *55*(11), 4384–4394. https://doi.org/10.1007/s13197-018-3408-3

Jekle, M., Mu¨hlberger, K., Becker, T., 2016. Starch-gluten interactions during gelatinization and its functionality in dough like model systems. *Food Hydrocolloids 54*, 196–201.

Jeong, S., Kim, H. W., & Lee, S. (2017). Rheological and secondary structural characterization of rice flour-zein composites for noodles slit from gluten-free sheeted dough. *Food Chemistry*, *221*, 1539–1545. https://doi.org/10.1016/j.foodchem.2016.10.139

Jeske, S., Zannini, E., & Arendt, E. K. (2018). Past, present and future: The strength of plant-based dairy substitutes based on gluten-free raw materials. *Food Research International*, *110*, 42–51. https://doi.org/10.1016/j.foodres.2017.03.045

Jiménez-Colmenero, F., Cofrades, S., Herrero, A. M., Fernández-Martín, F., Rodríguez-Salas, L., & Ruiz-Capillas, C. (2012). Konjac gel fat analogue for use in meat products: Comparison with pork fats. *Food Hydrocolloids*, *26*(1), 63–72. https://doi.org/10.1016/J.FOODHYD.2011.04.007

Jimenez-Colmenero, F., Salcedo-Sandoval, L., Bou, R., Cofrades, S., Herrero, A. M., & Ruiz-Capillas, C. (2015). Novel applications of oil-structuring methods as a strategy to improve the fat content of meat products. *Trends in Food Science & Technology*, *44*(2), 177–188. https://doi.org/10.1016/J.TIFS.2015.04.011

Jin, S. K., Kim, I. S., Nam, Y. W., Cho, J. H., Hur, S. J., & Kang, S. N. (2007). Effects of the order of material addition on the quality characteristics of emulsification sausage. *Korean Journal for Food Science of Animal Resources*, *27*(2), 157–162. https://doi.org/10.5851/kosfa.2007.27.2.157

Jinapong, N., Suphantharika, M., & Jamnong, P. (2008). Production of instant soymilk powders by ultrafiltration, spray drying and fluidized bed agglomeration. *Journal of Food Engineering*, *84*(2), 194–205. https://doi.org/10.1016/J.JFOODENG.2007.04.032

Joly, G., Anderstein, B., 2009. Starches, in: Tart´e, R. (Ed.), Ingredients in Meat Products: Properties, Functionality and Applications. Springer New York, New York, NY. chapter 2, p. 419.

Jonas-Levi, A., & Martinez, J. J. I. (2017). The high level of protein content reported in insects for food and feed is overestimated. *Journal of Food Composition and Analysis*, *62*(May), 184–188. https://doi.org/10.1016/j.jfca.2017.06.004

Jones, O. G. (2016). Recent advances in the functionality of non-animal-sourced proteins contributing to their use in meat analogs. *Current Opinion in Food Science*, *7*, 7–13. https://doi.org/10.1016/j.cofs.2015.08.002

Jongen, W. M. F., & Meerdink, G. (2001). Pea proteins based food products as meat replacers: The profetas concept. *Nahrung - Food*, *45*(6), 402–404. https://doi.org/10.1002/1521-3803(20011001)45:6<402::AID-FOOD402>3.0.CO;2-N

Joshi, M., Aldred, P., Panozzo, J.F., Kasapis, S., Adhikari, B., 2014. Rheological and microstructural characteristics of lentil starch-lentil protein composite pastes and gels. *Food Hydrocolloids 35,* 226–237.

Joshi, V., & Kumar, S. (2015). Meat Analogues: Plant based alternatives to meat products- A review. *International Journal of Food and Fermentation Technology*, *5*(2), 107. https://doi.org/10.5958/2277-9396.2016.00001.5

Joye, I. J., & McClements, D. J. (2014). Emulsifying and emulsion-stabilizing properties of gluten hydrolysates. *Journal of Agricultural and Food Chemistry*, *62*(12), 2623–2630. https://doi.org/10.1021/jf5001343

Ju, M., Zhu, G., Huang, G., Shen, X., Zhang, Y., Jiang, L., & Sui, X. (2020). A novel pickering emulsion produced using soy protein-anthocyanin complex nanoparticles. *Food Hydrocolloids*, *99*, 105329. https://doi.org/10.1016/J.FOODHYD.2019.105329

Juha´sz, R., Salg´o, A., 2008. Pasting behavior of amylose, amylopectin and their mixtures as determined by RVA curves and first derivatives. *Starch/Staerke 60*, 70–78.

Kalapathy, U., Hettiarachchy, N. S., & Rhee, K. C. (1997). Effect of drying methods on molecular properties and functionalities of disulfide bond-cleaved soy proteins. *Journal of the American Oil Chemists’ Society*, *74*(3), 195–199. https://doi.org/10.1007/s11746-997-0123-z

Kalaydzhiev, H., Ivanova, P., Stoyanova, M., Pavlov, A., Rustad, T., Silva, C. L. M., & Chalova, V. I. (2020). Valorization of Rapeseed Meal: Influence of Ethanol Antinutrients Removal on Protein Extractability, Amino Acid Composition and Fractional Profile. *Waste and Biomass Valorization*. https://doi.org/10.1007/s12649-018-00553-1

Kale, A., Varadan, R., & Davis, S. C. (2017). *US20170321204A1*. Retrieved from https://patents.google.com/patent/US20170321204A1/en?assignee=IMPOSSIBLE+FOODS+INC.&page=1

Kamani, M. H., Meera, M. S., Bhaskar, N., & Modi, V. K. (2019). Partial and total replacement of meat by plant-based proteins in chicken sausage: evaluation of mechanical, physico-chemical and sensory characteristics. *Journal of Food Science and Technology*, *56*(5), 2660–2669. https://doi.org/10.1007/s13197-019-03754-1

Kanjanapongkul, K., Wongsasulak, S., & Yoovidhya, T. (2010). Prediction of clogging time during electrospinning of zein solution: Scaling analysis and experimental verification. *Chemical Engineering Science*, *65*(18), 5217–5225. https://doi.org/10.1016/j.ces.2010.06.018

Kanjanapongkul, K., Wongsasulak, S., & Yoovidhya, T. (2010). Investigation and prevention of clogging during electrospinning of zein solution. *Journal of Applied Polymer Science*, *118*(3), 1821–1829. https://doi.org/10.1002/app.32499

Kantar Public. (2017). *Consumer principles on the use of food additives and enzyme*. Retrieved from https://acss.food.gov.uk/sites/default/files/chemicalsadditivesenzymes\_0.pdf

Kapchie, V. N., Wei, D., Hauck, C., & Murphy, P. A. (2008). Enzyme-assisted aqueous extraction of oleosomes from soybeans (Glycine max). *Journal of Agricultural and Food Chemistry*, *56*(5), 1766–1771. https://doi.org/10.1021/jf0721390

Karaca, A. C., Low, N., & Nickerson, M. (2011). Emulsifying properties of chickpea, faba bean, lentil and pea proteins produced by isoelectric precipitation and salt extraction. *Food Research International*, *44*(9), 2742–2750. https://doi.org/10.1016/j.foodres.2011.06.012

Karaca, A. C., Nickerson, M. T., & Low, N. H. (2011). Lentil and chickpea protein-stabilized emulsions: Optimization of emulsion formulation. *Journal of Agricultural and Food Chemistry*, *59*(24), 13203–13211. https://doi.org/10.1021/jf203028n

Karakasyan, C., Legros, M., Lack, S., Brunel, F., Maingault, P., Ducouret, G., & Hourdet, D. (2010). Cold gelation of alginates induced by monovalent cations. *Biomacromolecules*, *11*(11), 2966–2975. https://doi.org/10.1021/bm100776b

Karefyllakis, D., Octaviana, H., van der Goot, A. J., & Nikiforidis, C. V. (2019). The emulsifying performance of mildly derived mixtures from sunflower seeds. *Food Hydrocolloids*, *88*, 75–85. Retrieved from https://www.sciencedirect.com/science/article/pii/S0268005X18309950

Karimi, R., Azizi, M. H., Ghasemlou, M., & Vaziri, M. (2015). Application of inulin in cheese as prebiotic, fat replacer and texturizer: a review. *Carbohydrate Polymers*, *119*, 85–100. https://doi.org/10.1016/j.carbpol.2014.11.029

Kaspchak, E., Oliveira, M. A. S. de, Simas, F. F., Franco, C. R. C., Silveira, J. L. M., Mafra, M. R., & Igarashi-Mafra, L. (2017). Determination of heat-set gelation capacity of a quinoa protein isolate (Chenopodium quinoa) by dynamic oscillatory rheological analysis. *Food Chemistry*, *232*, 263–271. https://doi.org/10.1016/j.foodchem.2017.04.014

Katzav, H., Chirug, L., Okun, Z., Davidovich-Pinhas, M., & Shpigelman, A. (2020). Comparison of Thermal and High-Pressure Gelation of Potato Protein Isolates. *Foods*, *9*(8), 1041. https://doi.org/10.3390/foods9081041

Kazemzadh, M., Diehl, K. C., Rhee, K. ., & Dahm, P. . (1986). Mechanical and structural evaluation of texturized soy proteins of varying protein content. *Cereal Chemistry*, *63*(4), 304–310.

Kearns, J. P., Rokey, G. J., & Huber, G. R. (1989). Extrusion of texturized proteins. In T. H. Applewhite (Ed.), *Proceedings of the World Congress on Vegetable Protein Utilization in Human* (pp. 353–362). Champaign, Illinois: American oil chemists’ society.

Kelly, P. (2019). Manufacture of Whey Protein Products: Concentrates, Isolate, Whey Protein Fractions and Microparticulated. *Whey Proteins*, 97–122. https://doi.org/10.1016/B978-0-12-812124-5.00003-5

Keppler, J. K., Heyse, A., Scheidler, E., Uttinger, M. J., Fitzner, L., Jandt, U., … Biedendieck, R. (2021). Towards recombinantly produced milk proteins: Physicochemical and emulsifying properties of engineered whey protein beta-lactoglobulin variants. *Food Hydrocolloids*, *110*, 106132. https://doi.org/10.1016/j.foodhyd.2020.106132

Kerler, J., Winkel, C., Davidek, T., & Blank, I. (2010). Basic Chemistry and Process Conditions for Reaction Flavours with Particular Focus on Maillard-Type Reactions. In *Food Flavour Technology: Second Edition* (pp. 51–88). https://doi.org/10.1002/9781444317770.ch3

Kern, C., Scharfe, M., & Hinrichs, J. (2020). Texturization of renneted casein-based gel particles by sheet die extrusion: Mechanical properties and numerical analysis of flow characteristics. *Journal of Food Engineering*, *278*, 109938. https://doi.org/10.1016/j.jfoodeng.2020.109938

Kett, A.P., Chaurin, V., Fitzsimons, S.M., Morris, E.R., O’Mahony, J.A., Fenelon, M.A., 2013. Influence of milk proteins on the pasting behaviour and microstructural characteristics of waxy maize starch. *Food Hydrocolloids 30*, 661–671.

Khan, M. I., Jo, C., & Tariq, M. R. (2015). Meat flavor precursors and factors influencing flavor precursors-A systematic review. *Meat Science*. https://doi.org/10.1016/j.meatsci.2015.08.002

Kieffer, R., Schurer, F., Köhler, P., & Wieser, H. (2007). Effect of hydrostatic pressure and temperature on the chemical and functional properties of wheat gluten: Studies on gluten, gliadin and glutenin. *Journal of Cereal Science*, *45*(3), 285–292. https://doi.org/10.1016/j.jcs.2006.09.008

Kim, K., Choi, B., Lee, I., Lee, H., Kwon, S., Oh, K., & Kim, A. Y. (2011). Bioproduction of mushroom mycelium of Agaricus bisporus by commercial submerged fermentation for the production of meat analogue. *Journal of the Science of Food and Agriculture*, *91*(9), 1561–1568. https://doi.org/10.1002/jsfa.4348

Kim, M. K., & Castro Lugay, J. (1974). US4001459A - Fibrous protein materials.

Kim, S. H., Yang, Y. S., & Chung, I. M. (2016). Effect of acetic acid treatment on isoflavones and carbohydrates in pickled soybean. *Food Research International*, *81*, 58–65. https://doi.org/10.1016/j.foodres.2016.01.001

Kim, D.D., Yoo, B., 2010. Rheological behaviors of hydroxypropylated sweet potato starches influenced by guar, locust bean, and xanthan gums. *Starch/Staerke* 62, 584–591.

Kiosseoglou, A., Doxastakis, G., Alevisopoulos, S., & Kasapis, S. (1999). Physical characterization of thermally induced networks of lupin protein isolates prepared by isoelectric precipitation and dialysis. *International Journal of Food Science and Technology*, *34*(3), 253–263. https://doi.org/10.1046/j.1365-2621.1999.00260.x

Kirimlidou, M., Matsakidou, A., Scholten, E., Nikiforidis, C. V., & Kiosseoglou, V. (2017). Composite gels structured by a gelatin protein matrix filled with oil bodies. *Food Structure*. https://doi.org/10.1016/j.foostr.2017.06.003

Kitabataka, N., Megard, D., & Cheftel, J. C. (1985). Continuous Gel Formation by HTST Extrusion‐Cooking: Soy Proteins. *Journal of Food Science*, *50*(5), 1260–1265. https://doi.org/10.1111/j.1365-2621.1985.tb10457.x

Kloss, L., Meyer, J. D., Graeve, L., & Vetter, W. (2015, June 1). Sodium intake and its reduction by food reformulation in the European Union - A review. *NFS Journal*. Elsevier GmbH. https://doi.org/10.1016/j.nfs.2015.03.001

Klost, M., Brzeski, C., & Drusch, S. (2020). Effect of protein aggregation on rheological properties of pea protein gels. *Food Hydrocolloids*, *108*, 106036. https://doi.org/10.1016/j.foodhyd.2020.106036

Knipe, C. L. (2014). Emulsion. In *Encyclopedia of Meat Sciences*. https://doi.org/10.1016/B978-0-12-384731-7.00143-4

Knoch, A. (2016). *Production of Restructured Meatlike Products by High Moisture Extrusion Technology*. *Reference Module in Food Science*. Elsevier. https://doi.org/10.1016/B978-0-08-100596-5.03280-7

Koehler, P., Kieffer, R., & Wieser, H. (2010). Effect of hydrostatic pressure and temperature on the chemical and functional properties of wheat gluten III. Studies on gluten films. *Journal of Cereal Science*, *51*(1), 140–145. https://doi.org/10.1016/j.jcs.2009.11.004

Koistinen, L., Pouta, E., Heikkilä, J., Forsman-Hugg, S., Kotro, J., Mäkelä, J., & Niva, M. (2013). The impact of fat content, production methods and carbon footprint information on consumer preferences for minced meat. *Food Quality and Preference*, *29*(2), 126–136. https://doi.org/10.1016/j.foodqual.2013.03.007

Koneswaran, G., & Nierenberg, D. (2008). Global farm animal production and Global warming: Impacting and mitigating Climate Change. *Environmental Health Perspectives*, *116*(5), 578–582. https://doi.org/10.1289/ehp.11034

Korma, S.A., 2016. Chemically Modified Starch and Utilization in Food Stuffs. International *Journal of Nutrition and Food Sciences 5*, 264.

Kornet, R., Veenemans, J., Venema, P., van der Goot, A. J., Meinders, M., Sagis, L., & van der Linden, E. (2021). Less is more: Limited fractionation yields stronger gels for pea proteins. *Food Hydrocolloids*, *112*, 106285. https://doi.org/10.1016/j.foodhyd.2020.106285

Kostic, M. M., & Reifschneider, L. G. (2006). Design of Extrusion Dies. In *Encyclopedia of Chemical Processing* (pp. 633–649). https://doi.org/10.1081/E-ECHP-120039324

Kowalski, R. J., Medina-Meza, I. G., Thapa, B. B., Murphy, K. M., & Ganjyal, G. M. (2016). Extrusion processing characteristics of quinoa (Chenopodium quinoa Willd.) var. Cherry Vanilla. *Journal of Cereal Science*, *70*, 91–98. https://doi.org/10.1016/j.jcs.2016.05.024

Krintiras, G. A. (2016). Intensified Protein Structuring for More Sustainable Foods. *These*.

Krintiras, G. A., Gadea Diaz, J., Van Der Goot, A. J., Stankiewicz, A. I., & Stefanidis, G. D. (2016). On the use of the Couette Cell technology for large scale production of textured soy-based meat replacers. *Journal of Food Engineering*, *169*, 205–213. https://doi.org/10.1016/j.jfoodeng.2015.08.021

Krintiras, G. A., Göbel, J., Bouwman, W. G., Jan van der Goot, A., & Stefanidis, G. D. (2014). On characterization of anisotropic plant protein structures. *Food Funct.*, *5*(12), 3233–3240. https://doi.org/10.1039/C4FO00537F

Krintiras, G. A., Gobel, J., Van Der Goot, A. J., & Stefanidis, G. D. (2015). Production of structured soy-based meat analogues using simple shear and heat in a Couette Cell. *Journal of Food Engineering*, *160*(April), 34–41. https://doi.org/10.1016/j.jfoodeng.2015.02.015

Kristensen, M. D., Bendsen, N. T., Christensen, S. M., Astrup, A., & Raben, A. (2016). Meals based on vegetable protein sources (beans and peas) are more satiating than meals based on animal protein sources (veal and pork) - A randomized cross-over meal test study. *Food and Nutrition Research*, *60*(August 2017), 1–9. https://doi.org/10.3402/fnr.v60.32634

Kristiawan, M., Micard, V., Maladira, P., Alchamieh, C., Maigret, J.-E., Réguerre, A.-L., … Della Valle, G. (2018). Multi-scale structural changes of starch and proteins during pea flour extrusion. *Food Research International*, *108*, 203–215. https://doi.org/10.1016/J.FOODRES.2018.03.027

Krzywdzińska-Bartkowiak, M., Rezler, R., & Gajewska-Szczerbal, H. (2016). The influence of meat muscle structural properties on mechanical and texture parameters of canned ham. *Journal of Food Engineering*, *181*, 1–9. https://doi.org/10.1016/j.jfoodeng.2016.02.015

Kumar, P., Angad, G., Veterinary, D., Science, A., Of, D., Storage, E., … Delhi, N. (2010). Optimization of the egg albumen content in analogue meat nuggets. *Indian Journal of Poultry Science*, *45*(2), 77–179.

Kumar, P., Chatli, M. K., Mehta, N., Singh, P., Malav, O. P., & Verma, A. K. (2017). Meat analogues: Health promising sustainable meat substitutes. *Critical Reviews in Food Science and Nutrition*, *57*(5), 923–932. https://doi.org/10.1080/10408398.2014.939739

Kumar, P., Mehta, N., Malav, O. P., Verma, A. K., Umraw, P., Kanth, M. K., & Krishna kanth, M. (2019). The Structure of Meat Analogs. *Encyclopedia of Food Chemistry*, 105–109. https://doi.org/10.1016/B978-0-08-100596-5.21705-8

Kumar, S. (2017). Meat Analogs “Plant based alternatives to meat products: Their production technology and applications.” *Critical Reviews in Food Science and Nutrition*, *57*(5), 1059. https://doi.org/10.1080/10408398.2016.1196162

Kumar, P., Sharma, B.D., Kumar, R.R., 2011. Product profile comparison of analogue meat nuggets versus chicken nuggets. *Fleischwirtschaft International* , 72–75.

Kumar, V., Rani, A., Hussain, L., Yadav, M., Jha, P., Petwal, V., & Dwivedi, J. (2017). Changes in physico-chemical properties of native and toasted defatted soy flour on submission to electron beam radiation. *Food and Bioproducts Processing*, *105*, 141–146. https://doi.org/10.1016/j.fbp.2017.07.001

Kusch, S., & Fiebelkorn, F. (2019). Environmental impact judgments of meat, vegetarian, and insect burgers: Unifying the negative footprint illusion and quantity insensitivity. *Food Quality and Preference*, *78*, 103731. https://doi.org/10.1016/J.FOODQUAL.2019.103731

Kutzli, I., Gibis, M., Baier, S. K., & Weiss, J. (2019). Electrospinning of whey and soy protein mixed with maltodextrin – Influence of protein type and ratio on the production and morphology of fibers. *Food Hydrocolloids*, *93*, 206–214. https://doi.org/10.1016/J.FOODHYD.2019.02.028

Kutzli, I., Griener, D., Gibis, M., Schmid, C., Dawid, C., Baier, S. K., … Weiss, J. (2019). Influence of Maillard reaction conditions on the formation and solubility of pea protein isolate-maltodextrin conjugates in electrospun fibers. *Food Hydrocolloids*, 105535. https://doi.org/10.1016/J.FOODHYD.2019.105535

Kyed, M.-H., & Rusconi, P. (2009). *US20090208633A1*. Retrieved from https://patents.google.com/patent/US20090208633

Kyriakopoulou, K., Dekkers, B.L., van der Goot, A.J., 2019. Plant-Based Meat Analogues. Elsevier, London.

Kyriakopoulou, K., Keppler, J.K., van der Goot, A.J., 2021. Functionality of Ingredients and Additives in Plant-Based Meat Analogues. *Foods 10,* 600.

Ladjal-Ettoumi, Y., Boudries, H., Chibane, M., & Romero, A. (2016). Pea, Chickpea and Lentil Protein Isolates: Physicochemical Characterization and Emulsifying Properties. *Food Biophysics*, *11*(1), 43–51. https://doi.org/10.1007/s11483-015-9411-6

Lam, A. C. Y., Can Karaca, A., Tyler, R. T., & Nickerson, M. T. (2018, February 17). Pea protein isolates: Structure, extraction, and functionality. *Food Reviews International*. Taylor and Francis Inc. https://doi.org/10.1080/87559129.2016.1242135

Lamichhane, P., Kelly, A. L., & Sheehan, J. J. (2018). Symposium review: Structure-function relationships in cheese. *Journal of Dairy Science*, *101*(3), 2692–2709. https://doi.org/10.3168/jds.2017-13386

Lang, M. (2019). Consumer acceptance of blending plant-based ingredients into traditional meat-based foods to reduce meat consumption: Evidence from the meat-mushroom blend. *Food Quality and Preference*, 103758. https://doi.org/10.1016/J.FOODQUAL.2019.103758

Langton, M., Ehsanzamir, S., Karkehabadi, S., Feng, X., Johansson, M., & Johansson, D. P. (2020). Gelation of faba bean proteins - Effect of extraction method, pH and NaCl. *Food Hydrocolloids*, *103*, 105622. https://doi.org/10.1016/j.foodhyd.2019.105622

Larré, C., Mulder, W., Sánchez-Vioque, R., Lazko, J., Bérot, S., Guéguen, J., & Popineau, Y. (2006). Characterisation and foaming properties of hydrolysates derived from rapeseed isolate. *Colloids and Surfaces B: Biointerfaces*, *49*(1), 40–48. https://doi.org/10.1016/j.colsurfb.2006.02.009

Larsen, T. M., Dalskov, S.-M., van Baak, M., Jebb, S. A., Papadaki, A., Pfeiffer, A. F. H., … Diet, Obesity, and G. (Diogenes) P. (2010). Diets with high or low protein content and glycemic index for weight-loss maintenance. *The New England Journal of Medicine*, *363*(22), 2102–2113. https://doi.org/10.1056/NEJMoa1007137

Larsson, S. C., & Wolk, A. (2006). Meat consumption and risk of colorectal cancer: A meta-analysis of prospective studies. *International Journal of Cancer*, *119*(11), 2657–2664. https://doi.org/10.1002/ijc.22170

Lazou, A. E., Michailidis, P. A., Thymi, S., Krokida, M. K., & Bisharat, G. I. (2007). Structural Properties of Corn-Legume Based Extrudates as a Function of Processing Conditions and Raw Material Characteristics. *International Journal of Food Properties*, *10*(4), 721–738. https://doi.org/10.1080/10942910601154305

Lee, M. K. (2009). The Quality Characteristics of Soy Wan-Jas Made with Different Proteolytic Enzyme Treated Textured Soy Proteins. *Journal of the Korean Society for Applied Biological Chemistry*, *52*(6), 708–715. https://doi.org/10.3839/jksabc.2009.117

Lee, W. J., & Lucey, J. A. (2004). Structure and physical properties of yogurt gels: Effect of inoculation rate and incubation temperature. *Journal of Dairy Science*, *87*(10), 3153–3164. https://doi.org/10.3168/jds.S0022-0302(04)73450-5

Lefebvre-Cases, E., Gastaldi, E., Vidal, V., Marchesseau, S., Lagaude, A., Cuq, J. L., & Tarodo De La Fuente, B. (1998). Identification of Interactions among Casein Gels Using Dissociating Chemical Agents. *Journal of Dairy Science*, *81*(4), 932–938. https://doi.org/10.3168/jds.S0022-0302(98)75653-X

Leidy, H., Hayes, J., & Hai, A. (1972). US3840677A - Bacon-like meat analogs.

Lerner, A., & Matthias, T. (2015). Possible association between celiac disease and bacterial transglutaminase in food processing: a hypothesis. *Nutrition Reviews*, *73*(8), 544–552. https://doi.org/10.1093/nutrit/nuv011

Leutgeb, K. (2015). *Microbial examination of raw and extruded products for the production of a vegetarian meat analogue*.

Li, B. S., & Wang, B. S. (2018). Changes in the interactions between proteins and other macromolecules induced by HPP. In *Encyclopedia of Food Chemistry* (pp. 499–504). Elsevier. https://doi.org/10.1016/B978-0-08-100596-5.21484-4

Li, J., Wang, Y., Jin, W., Zhou, B., & Li, B. (2014). Application of micronized konjac gel for fat analogue in mayonnaise. *Food Hydrocolloids*, *35*, 375–382. https://doi.org/10.1016/J.FOODHYD.2013.06.010

Li, J., Yadav, M. P., & Li, J. (2019). Effect of different hydrocolloids on gluten proteins, starch and dough microstructure. *Journal of Cereal Science*, *87*, 85–90. https://doi.org/10.1016/J.JCS.2019.03.004

Li, L. (2002). Thermal gelation of methylcellulose in water: Scaling and thermoreversibility. *Macromolecules*, *35*(15), 5990–5998. https://doi.org/10.1021/ma0201781

Li, Q., Xia, Y., Zhou, L., & Xie, J. (2013). Evaluation of the rheological, textural, microstructural and sensory properties of soy cheese spreads. *Food and Bioproducts Processing*, *91*(4), 429–439. https://doi.org/10.1016/j.fbp.2013.03.001

Li, Q., Wang, Z., Dai, C., Wang, Y., Chen, W., Ju, X., … He, R. (2019). Physical stability and microstructure of rapeseed protein isolate/gum Arabic stabilized emulsions at alkaline pH. *Food Hydrocolloids*, *88*, 50–57. https://doi.org/10.1016/j.foodhyd.2018.09.020

Li, T., Guo, X. N., Zhu, K. X., & Zhou, H. M. (2018). Effects of alkali on protein polymerization and textural characteristics of textured wheat protein. *Food Chemistry*, *239*, 579–587. https://doi.org/10.1016/j.foodchem.2017.06.155

Li, X., & Li, J. (2020). The Flavor of Plant-Based Meat Analogues. *Cereal Foods World*. https://doi.org/10.1094/cfw-65-4-0040

Li, G., Zhu, F., 2017. Physicochemical properties of quinoa flour as affected by starch interactions. *Food Chemistry 221*, 1560–1568.

Li, J.Y., Yeh, A.I., 2003. Effects of starch properties on rheological characteristics of starch/meat complexes. *Journal of Food Engineering 57*, 287–294.

Li, S., Wei, Y., Fang, Y., Zhang, W., Zhang, B., 2014. DSC study on the thermal properties of soybean protein isolates/corn starch mixture. Journal of Thermal Analysis and *Calorimetry 115*, 1633–1638.

Liao, Q. G., Li, W. H., & Luo, L. G. (2012). Applicability of accelerated solvent extraction for synthetic colorants analysis in meat products with ultrahigh performance liquid chromatography-photodiode array detection. *Analytica Chimica Acta*, *716*, 128–132. https://doi.org/10.1016/j.aca.2011.12.033

Liene, S., & Sandra, M.-B. (2016). The Characteristics of Extruded Faba Beans (Vicia faba L.). *Rural Sustainability Research*. https://doi.org/10.1515/plua-2016-0013

Lie-Piang, A., Braconi, N., Boom, R. M., & van der Padt, A. (2021). Less refined ingredients have lower environmental impact – A life cycle assessment of protein-rich ingredients from oil- and starch-bearing crops. *Journal of Cleaner Production*. https://doi.org/10.1016/j.jclepro.2021.126046

LikeMeat, 2021. LikeSchnitzel. URL: https://likemeat.com/de/produkt/ like-schnitzel/.

Lille, M., Nurmela, A., Nordlund, E., Metsä-Kortelainen, S., & Sozer, N. (2016). Applicability of protein and fiber-rich food materials in extrusion-based 3D printing. *Journal of Food Engineering*. https://doi.org/10.1016/j.jfoodeng.2017.04.034

Lin, D., Lu, W., Kelly, A. L., Zhang, L., Zheng, B., & Miao, S. (2017). Interactions of vegetable proteins with other polymers: Structure-function relationships and applications in the food industry. *Trends in Food Science & Technology*, *68*, 130–144. https://doi.org/10.1016/j.tifs.2017.08.006

Lin, S., Huff, H. E., & Hsieh, F. (2000). Texture and Chemical Characteristics of Soy Protein Meat Analog Extruded at High Moisture. *Journal of Food Science*, *65*(2), 264–269. https://doi.org/10.1111/j.1365-2621.2000.tb15991.x

Lin, S., Huff, H. E., & Hsieh, F. (2002). Extrusion Process Parameters, Sensory Characteristics, and Structural Properties of a High Moisture Soy Protein Meat Analog. *Journal of Food Science*, *67*(3), 1066–1072. https://doi.org/10.1111/j.1365-2621.2002.tb09454.x

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| --- | --- | --- | --- | --- | --- |
| Linnane, | C., | 2020. | Barclays Predicts |  | Alternative |
| Meat | Market | Could Be | Worth $ 140 | Bn | in 10 |

Years. URL: https://www.marketwatch.com/story/

alternative-meat-market-could-be-worth-140-billion-in-ten-years-barclays-says-

Listrat, A., Lebret, B., Louveau, I., Astruc, T., Bonnet, M., Lefaucheur, L., … Bugeon, J. (2016). How muscle structure and composition influence meat and flesh quality. *Scientific World Journal*, *2016*, 3182746. https://doi.org/10.1155/2016/3182746

Liu, K. (2016). *Soybean: Overview*. *Encyclopedia of Food Grains* (2nd ed.). Elsevier Ltd. https://doi.org/10.1016/B978-0-12-394437-5.00028-0

Liu, K., & Hsieh, F. H. (2008). Protein-protein interactions during high-moisture extrusion for fibrous meat analogues and comparison of protein solubility methods using different solvent systems. *Journal of Agricultural and Food Chemistry*, *56*(8), 2681–2687. https://doi.org/10.1021/jf073343q

Liu, P., Xu, H., Zhao, Y., & Yang, Y. (2017). Rheological properties of soy protein isolate solution for fibers and films. *Food Hydrocolloids*, *64*, 149–156. https://doi.org/10.1016/j.foodhyd.2016.11.001

Liu, S. X., Peng, M., Tu, S., Li, H., Cai, L., & Yu, X. (2005). Development of a new meat analog through twin-screw extrusion of defatted soy flour-Lean pork blend. *Food Science and Technology International*, *11*(6), 463–470. https://doi.org/10.1177/1082013205060130

Liu, S., Elmer, C., Low, N. H., & Nickerson, M. T. (2010). Effect of pH on the functional behaviour of pea protein isolate-gum Arabic complexes. *Food Research International*, *43*(2), 489–495. https://doi.org/10.1016/j.foodres.2009.07.022

Liu, H., Ramsden, L., Corke, H., 1999. Physical Properties of Cross-linked and Acetylated Normal and Waxy Rice Starch. *Starch - St¨arke 51*, 249– 252.

Liu, K.S., Hsieh, F.H., 2007. Protein–Protein Interactions in High Moisture- Extruded Meat Analogs and Heat-Induced Soy Protein Gels. *Journal of the American Oil Chemists’ Society 84*, 741–748.

Lopes-da-Silva, J. A., & Monteiro, S. R. (2019). Gelling and emulsifying properties of soy protein hydrolysates in the presence of a neutral polysaccharide. *Food Chemistry*, *294*, 216–223. https://doi.org/10.1016/j.foodchem.2019.05.039

López, D. N., Galante, M., Robson, M., Boeris, V., & Spelzini, D. (2018, April 1). Amaranth, quinoa and chia protein isolates: Physicochemical and structural properties. *International Journal of Biological Macromolecules*. Elsevier B.V. https://doi.org/10.1016/j.ijbiomac.2017.12.080

López, D. N., Ingrassia, R., Busti, P., Wagner, J., Boeris, V., & Spelzini, D. (2018). Effects of extraction pH of chia protein isolates on functional properties. *LWT*, *97*, 523–529. https://doi.org/10.1016/j.lwt.2018.07.036

López-Pedrouso, M., Lorenzo, J. M., Gullón, B., Campagnol, P. C. B., & Franco, D. (2021, August 1). Novel strategy for developing healthy meat products replacing saturated fat with oleogels. *Current Opinion in Food Science*. Elsevier Ltd. https://doi.org/10.1016/j.cofs.2020.06.003

Lousuebsakul-Matthews, V., Thorpe, D. L., Knutsen, R., Beeson, W. L., Fraser, G. E., & Knutsen, S. F. (2014). Legumes and meat analogues consumption are associated with hip fracture risk independently of meat intake among Caucasian men and women: the Adventist Health Study-2. *Public Health Nutrition*, *17*(10), 2333–2343. https://doi.org/10.1017/S1368980013002693

Loypimai, P., Moongngarm, A., & Naksawat, S. (2017). *Application of natural colorant from black rice bran for fermented Thai pork sausage-Sai Krok Isan*. *International Food Research Journal* (Vol. 24).

Lu, P., Zhang, X. L., Xue, W. Y., Wu, D. W., Ding, L. R., Wen, C., & Zhou, Y. M. (2017). The protein oxidation of soybean meal induced by heating decreases its protein digestion in vitro and impairs growth performance and digestive function in broilers. *British Poultry Science*, *58*(6), 704–711. https://doi.org/10.1080/00071668.2017.1370535

Lucas, M. M., Stoddard, F. L., Annicchiarico, P., Frías, J., Martínez-Villaluenga, C., Sussmann, D., … Pueyo, J. J. (2015). The future of lupin as a protein crop in Europe. *Frontiers in Plant Science*, *6*(September), 705. https://doi.org/10.3389/fpls.2015.00705

Luciano, F. B. (2009). The impacts of lean red meat consumption on human health: a review Impactos del consumo de carne roja magra en la salud humana: una revisio. *Journal of Food*, *7*(2), 143–151. https://doi.org/10.1080/19476330902940523

Lusas, E. W., & Riaz, M. N. (1995). Soy protein products: processing and use. *The Journal of Nutrition*, *125*(3 Suppl), 573S-580S.

Lusk, J. L. (2019). Consumer beliefs about healthy foods and diets. *PLoS ONE*, *14*(10). https://doi.org/10.1371/journal.pone.0223098

Ma, Z., Boye, J. I., Simpson, B. K., Prasher, S. O., Monpetit, D., & Malcolmson, L. (2011). Thermal processing effects on the functional properties and microstructure of lentil, chickpea, and pea flours. *Food Research International*, *44*(8), 2534–2544. https://doi.org/10.1016/j.foodres.2010.12.017

Macdiarmid, J. I., Kyle, J., Horgan, G. W., Loe, J., Fyfe, C., Johnstone, A., & McNeill, G. (2012). Sustainable diets for the future: Can we contribute to reducing greenhouse gas emissions by eating a healthy diet? *American Journal of Clinical Nutrition*, *96*(3), 632–639. https://doi.org/10.3945/ajcn.112.038729

MacQueen, L. A., Alver, C. G., Chantre, C. O., Ahn, S., Cera, L., Gonzalez, G. M., … Parker, K. K. (2019). Muscle tissue engineering in fibrous gelatin: implications for meat analogs. *Npj Science of Food*, *3*(1), 20. https://doi.org/10.1038/s41538-019-0054-8

Madsen, H. L., Stapelfeldt, H., Bertelsen, G., & Skibsted, L. H. (1993). Cochineal as a colorant in processed pork meat. Colour matching and oxidative stability. *Food Chemistry*, *46*(3), 265–271. https://doi.org/10.1016/0308-8146(93)90117-X

Majcher, M. A., & Jeleń, H. H. (2007). Effect of cysteine and cystine addition on sensory profile and potent odorants of extruded potato snacks. *Journal of Agricultural and Food Chemistry*, *55*(14), 5754–5760. https://doi.org/10.1021/jf0703147

Mäkinen, O. E., Zannini, E., & Arendt, E. K. (2015). Modifying the Cold Gelation Properties of Quinoa Protein Isolate: Influence of Heat-Denaturation pH in the Alkaline Range. *Plant Foods for Human Nutrition*, *70*(3), 250–256. https://doi.org/10.1007/s11130-015-0487-4

Mäkinen, O. E., Wanhalinna, V., Zannini, E., & Arendt, E. K. (2016). Foods for Special Dietary Needs: Non-dairy Plant-based Milk Substitutes and Fermented Dairy-type Products. *Critical Reviews in Food Science and Nutrition*, *56*(3), 339–349. https://doi.org/10.1080/10408398.2012.761950

Makri, E., Papalamprou, E., & Doxastakis, G. (2005). Study of functional properties of seed storage proteins from indigenous European legume crops (lupin, pea, broad bean) in admixture with polysaccharides. In *Food Hydrocolloids* (Vol. 19, pp. 583–594). Elsevier. https://doi.org/10.1016/j.foodhyd.2004.10.028

Malav, O. P., Talukder, S., Gokulakrishnan, P., & Chand, S. (2015). Meat Analog: A Review. *Critical Reviews in Food Science and Nutrition*, *55*(9), 1241–1245. https://doi.org/10.1080/10408398.2012.689381

Malek, L., Umberger, W. J., & Goddard, E. (2019). Committed vs. uncommitted meat eaters: Understanding willingness to change protein consumption. *Appetite*, *138*, 115–126. https://doi.org/10.1016/J.APPET.2019.03.024

Malomo, S. A., He, R., & Aluko, R. E. (2014). Structural and Functional Properties of Hemp Seed Protein Products. *Journal of Food Science*, *79*(8), C1512–C1521. https://doi.org/10.1111/1750-3841.12537

Mangels, A. R. (2014). Bone nutrients for vegetarians. *American Journal of Clinical Nutrition*, *100*(SUPPL. 1). https://doi.org/10.3945/ajcn.113.071423

Manski, J. M., van der Goot, A. J., & Boom, R. M. (2007). Influence of shear during enzymatic gelation of caseinate-water and caseinate-water-fat systems. *Journal of Food Engineering*, *79*(2), 706–717. https://doi.org/10.1016/j.jfoodeng.2006.02.035

Manski, J. M., van der Goot, A. J., & Boom, R. M. (2007). Advances in structure formation of anisotropic protein-rich foods through novel processing concepts. *Trends in Food Science and Technology*, *18*(11), 546–557. https://doi.org/10.1016/j.tifs.2007.05.002

Manski, J. M., van der Goot, A. J., & Boom, R. M. (2007). Formation of fibrous materials from dense calcium caseinate dipersions. *Biomacromolecules*, *8*(4), 1271–1279. https://doi.org/10.1021/bm061008p

Manski, J. M., van der Zalm, E. E. J., van der Goot, A. J., & Boom, R. M. (2008). Influence of process parameters on formation of fibrous materials from dense calcium caseinate dispersions and fat. *Food Hydrocolloids*, *22*(4), 587–600. https://doi.org/10.1016/j.foodhyd.2007.02.006

Manski, J. M., van Riemsdijk, L. E., van der Goot, A. J., & Boom, R. M. (2007). Importance of intrinsic properties of dense caseinate dispersions for structure formation. *Biomacromolecules*, *8*(11), 3540–3547. https://doi.org/10.1021/bm700885f

Mantovani, D., Filho, L. C., Santos, L. C., de Souza, V. L. F., & Watanabe, C. S. (2009). Chromatographic Quantification of Isoflavone Content from Soy Derivates Using HPLC Technique. *Journal of Chromatographic Science*, *47*(9), 766–769. https://doi.org/10.1093/chromsci/47.9.766

Mao, L., Miao, S., Yuan, F., & Gao, Y. (2018). Study on the textural and volatile characteristics of emulsion filled protein gels as influenced by different fat substitutes. *Food Research International*, *103*, 1–7. https://doi.org/10.1016/j.foodres.2017.10.024

Marnoch, R., & Diosady, L. L. (2006). Production of mustard protein isolates from oriental mustard seed ( *Brassica juncea* L.). *Journal of the American Oil Chemists’ Society*, *83*(1), 65–69. https://doi.org/10.1007/s11746-006-1177-z

Maroma, D. P. (2015). Meat Analogue Derived from Common Legumes. *OALib*, *02*(01), 1–10. https://doi.org/10.4236/oalib.1101249

Mårtensson, O., Öste, R., & Holst, O. (2000). Lactic Acid Bacteria in an Oat-based Non-dairy Milk Substitute: Fermentation Characteristics and Exopolysaccharide Formation. *LWT - Food Science and Technology*, *33*(8), 525–530. https://doi.org/10.1006/fstl.2000.0718

Martín-Cabrejas, M. A., Aguilera, Y., Pedrosa, M. M., Cuadrado, C., Hernández, T., Díaz, S., & Esteban, R. M. (2009). The impact of dehydration process on antinutrients and protein digestibility of some legume flours. *Food Chemistry*, *114*(3), 1063–1068. https://doi.org/10.1016/j.foodchem.2008.10.070

Martins, N., Roriz, C. L., Morales, P., Barros, L., & Ferreira, I. C. F. R. (2016, June 1). Food colorants: Challenges, opportunities and current desires of agro-industries to ensure consumer expectations and regulatory practices. *Trends in Food Science and Technology*. Elsevier Ltd. https://doi.org/10.1016/j.tifs.2016.03.009

Marti-Quijal, F. J., Zamuz, S., Tomašević, I., Gómez, B., Rocchetti, G., Lucini, L., … Lorenzo, J. M. (2019). Influence of different sources of vegetable, whey and microalgae proteins on the physicochemical properties and amino acid profile of fresh pork sausages. *LWT*, *110*, 316–323. https://doi.org/10.1016/j.lwt.2019.04.097

Mason, W.R., 2009. Starch Use in Foods, in: Starch. third edit ed.. Elsevier, pp. 745–795.

Matias, N. S., Bedani, R., Castro, I. A., & Saad, S. M. I. (2014). A probiotic soy-based innovative product as an alternative to petit-suisse cheese. *LWT - Food Science and Technology*, *59*(1), 411–417. https://doi.org/10.1016/j.lwt.2014.05.054

Mattice, K. D., & Marangoni, A. G. (2020). Comparing methods to produce fibrous material from zein. *Food Research International*, *128*, 108804. https://doi.org/10.1016/j.foodres.2019.108804

Mattice, K. D., & Marangoni, A. G. (2020). Evaluating the use of zein in structuring plant-based products. *Current Research in Food Science*, *3*, 59–66. https://doi.org/10.1016/j.crfs.2020.03.004

Maung, T. T., Gu, B. Y., Kim, M. H., & Ryu, G. H. (2020). Fermentation of texturized vegetable proteins extruded at different moisture contents: effect on physicochemical, structural, and microbial properties. *Food Science and Biotechnology*, *29*(7), 897–907. https://doi.org/10.1007/s10068-020-00737-3

Maurice, T. J., & Stanley, D. W. (1978). Texture-Structure Relationships in Texturized Soy Protein IV. Influence of Process Variables on Extrusion Texturization. *Canadian Institute of Food Science and Technology Journal*, *11*(1), 1–6. https://doi.org/10.1016/S0315-5463(78)73151-2

Mazaheri Tehrani, M., Ehtiati, A., & Sharifi Azghandi, S. (2017). Application of genetic algorithm to optimize extrusion condition for soy-based meat analogue texturization. *Journal of Food Science and Technology*, *54*(5), 1119–1125. https://doi.org/10.1007/s13197-017-2524-9

McCarthy, M., Brennan, M., Kelly, A.L., Ritson, C., de Boer, M., Thompson, N., 2007. Who is at risk and what do they know? Segmenting a population on their food safety knowledge. *Food Quality and Preference 18,* 205–217.

McClements, D. J. (2020). Development of next-generation nutritionally fortified plant-based milk substitutes: Structural design principles. *Foods*, *9*(4), 421. https://doi.org/10.3390/foods9040421

McClements, D. J., Newman, E., & McClements, I. F. (2019). Plant‐based Milks: A Review of the Science Underpinning Their Design, Fabrication, and Performance. *Comprehensive Reviews in Food Science and Food Safety*, *18*(6), 2047–2067. https://doi.org/10.1111/1541-4337.12505

McIlveen, H., Abraham, C., & Armstrong, G. (1999). Meat avoidance and the role of replacers. *Nutrition & Food Science*, *99*(1), 29–36. https://doi.org/10.1108/00346659910247653

McNeill, S. H., & Van Elswyk, M. E. (2016). *Meat: Role in the Diet*. *Encyclopedia of Food and Health* (1st ed.). Elsevier Ltd. https://doi.org/10.1016/B978-0-12-384947-2.00450-5

McVetty, P. B. E., & Duncan, R. W. (2015). Canola/Rapeseed: Genetics and Breeding. In *Encyclopedia of Food Grains: Second Edition*. https://doi.org/10.1016/B978-0-12-394437-5.00209-6

Mehta, N., Ahlawat, S. S., Sharma, D. P., & Dabur, R. S. (2015). Novel trends in development of dietary fiber rich meat products-a critical review. *Journal of Food Science and Technology*, *52*(2), 633–647. https://doi.org/10.1007/s13197-013-1010-2

Melini, F., Melini, V., Luziatelli, F., Ficca, A. G., & Ruzzi, M. (2019, May 1). Health-promoting components in fermented foods: An up-to-date systematic review. *Nutrients*. MDPI AG. https://doi.org/10.3390/nu11051189

Meyer, N., & Reguant-Closa, A. (2017). Eat as if you could save the planet and win! sustainability integration into nutrition for exercise and sport. *Nutrients*, *9*(4). https://doi.org/10.3390/nu9040412

Micha Shemer, Gil Arbel, Israela Bait-Halachmy, & Yoel Arad. (1998). CA2304087A1 - Fibrous food product and method and device for its production. Retrieved from https://patents.google.com/patent/WO1999013735A1/en

Michel, F., Hartmann, C., Siegrist, M., 2021. Consumers’ associations, per- ceptions and acceptance of meat and plant-based meat alternatives. *Food Quality and Preference 87*, 104063.

Middendorf, J. E., Waggle, D. H., & Cornell, A. (1973). US3920853A - Protein food product. Retrieved from https://patents.google.com/patent/US3920853A/en

Millar, K. A., Barry-Ryan, C., Burke, R., McCarthy, S., & Gallagher, E. (2019). Dough properties and baking characteristics of white bread, as affected by addition of raw, germinated and toasted pea flour. *Innovative Food Science and Emerging Technologies*, *56*, 102189. https://doi.org/10.1016/j.ifset.2019.102189

Mínguez-Mosquera, M. I., Jarén-Galán, M., & Garrido-Fernández, J. (1994). Influence of the Industrial Drying Processes of Pepper Fruits(Capsicum annuum Cv. Bola) for Paprika on the Carotenoid Content. *Journal of Agricultural and Food Chemistry*, *42*(5), 1190–1193. https://doi.org/10.1021/jf00041a026

Mir, N. A., Riar, C. S., & Singh, S. (2019). Structural modification of quinoa seed protein isolates (QPIs) by variable time sonification for improving its physicochemical and functional characteristics. *Ultrasonics Sonochemistry*, *58*, 104700. https://doi.org/10.1016/j.ultsonch.2019.104700

Miyoshi, T., Toyohara, K., & Minematsu, H. (2005). Preparation of ultrafine fibrous zein membranes via electrospinning. *Polymer International*, *54*(8), 1187–1190. https://doi.org/10.1002/pi.1829

Moghtadaei, M., Soltanizadeh, N., & Goli, S. A. H. (2018). Production of sesame oil oleogels based on beeswax and application as partial substitutes of animal fat in beef burger. *Food Research International*, *108*, 368–377. Retrieved from https://www.sciencedirect.com/science/article/pii/S0963996918302357

Mohamad Mazlan, M., Talib, R. A., Chin, N. L., Shukri, R., Taip, F. S., Mohd Nor, M. Z., & Abdullah, N. (2020). Physical and Microstructure Properties of Oyster Mushroom-Soy Protein Meat Analog via Single-Screw Extrusion. *Foods*, *9*(8), 1023. https://doi.org/10.3390/foods9081023

Mohanan, A., Nickerson, M. T., & Ghosh, S. (2020). Utilization of pulse protein-xanthan gum complexes for foam stabilization: The effect of protein concentrate and isolate at various pH. *Food Chemistry*, *316*, 126282. https://doi.org/10.1016/j.foodchem.2020.126282

Mohebalizadehgashti, F., Zolfagharinia, H., & Amin, S. H. (2020). Designing a green meat supply chain network: A multi-objective approach. *International Journal of Production Economics*, *219*, 312–327. https://doi.org/10.1016/J.IJPE.2019.07.007

Moizuddin, S., Harvey, G., Fenton, A. M., & Wilson, L. A. (1999). Tofu Production from Soybeans or Full-Fat Soyflakes Using Direct and Indirect Heating Processes. *Journal of Food Science*, *64*(1), 145–148. https://doi.org/10.1111/j.1365-2621.1999.tb09879.x

Mokni Ghribi, A., Ben Amira, A., Maklouf Gafsi, I., Lahiani, M., Bejar, M., Triki, M., … Besbes, S. (2018). Toward the enhancement of sensory profile of sausage “Merguez” with chickpea protein concentrate. *Meat Science*, *143*, 74–80. https://doi.org/10.1016/j.meatsci.2018.04.025

Monteiro, S. R., & Lopes-da-Silva, J. A. (2017). Effect of the molecular weight of a neutral polysaccharide on soy protein gelation. *Food Research International*, *102*, 14–24. https://doi.org/10.1016/j.foodres.2017.09.066

Montellano Duran, N., Spelzini, D., & Boeris, V. (2019). Characterization of acid – Induced gels of quinoa proteins and carrageenan. *LWT*, *108*, 39–47. https://doi.org/10.1016/j.lwt.2019.03.052

Moon, J. H., Choi, I. W., Park, Y. K., & Kim, Y. (2011). Development of natural meat-like flavor based on Maillard reaction products. *Korean Journal for Food Science of Animal Resources*, *31*(1), 129–138. https://doi.org/10.5851/kosfa.2011.31.1.129

Moon, S. Y., Cliff, M. A., & Li-Chan, E. C. Y. (2006). Odour-active components of simulated beef flavour analysed by solid phase microextraction and gas chromatography-mass spectrometry and -olfactometry. *Food Research International*, *39*(3), 294–308. https://doi.org/10.1016/j.foodres.2005.08.002

Morel, M. H., Redl, A., & Guilbert, S. (2002). Mechanism of heat and shear mediated aggregation of wheat gluten protein upon mixing. *Biomacromolecules*, *3*(3), 488–497. https://doi.org/10.1021/bm015639p

Morris, E.R., 2009. Functional Interactions in Gelling Biopolymer Mixtures, in: Kasapis, S., Norton, I.T., Ubbink, J.B. (Eds.), Modern Biopolymer Science. first edit ed.. Elsevier Inc., pp. 167–198.

Mosca, A. C., & Chen, J. (2016). *Objective and Subjective Aspects of Food Oral Texture Assessment*. *Reference Module in Food Science*. Elsevier. https://doi.org/http://doi.org/10.1016/B978-0-08-100596-5.21163-3

Moscicki, L. (2016). *Extrusion Cooking: Principles and Practice*. *Encyclopedia of Food and Health* (1st ed.). Elsevier Ltd. https://doi.org/10.1016/B978-0-12-384947-2.00265-8

Motoyama, T., & Ashida, S. (2014). WO2014156549A1 - Mung bean protein gel composition and cheese-like food. Retrieved from https://patents.google.com/patent/WO2014156549A1/en

Mottram, D. S. D., & Donald S., M. (1998). Flavour formation in meat and meat products: a review. *Food Chemistry*, *62*(4), 415–424. https://doi.org/10.1016/S0308-8146(98)00076-4

Mottram, D. S., Madruga, M. S., & Whitfield, F. B. (1995). Some Novel Meatlike Aroma Compounds from the Reactions of Alkanediones with Hydrogen Sulfide and Furanthiols. *Journal of Agricultural and Food Chemistry*, *43*(1), 189–193. https://doi.org/10.1021/jf00049a035

Moving Mountains, a. Moving Mountains Burger. URL: https://movingmountainsfoods.com/product/burger/.

Moving Mountains, b. Moving Mountains Sausage. URL: https://movingmountainsfoods.com/product/sausage/.

Mu, B., Xu, H., Li, W., Xu, L., & Yang, Y. (2019). Spinnability and rheological properties of globular soy protein solution. *Food Hydrocolloids*, *90*, 443–451. https://doi.org/10.1016/J.FOODHYD.2018.12.049

Multari, S., Stewart, D., & Russell, W. R. (2015). Potential of Fava Bean as Future Protein Supply to Partially Replace Meat Intake in the Human Diet. *Comprehensive Reviews in Food Science and Food Safety*, *14*(5), 511–522. https://doi.org/10.1111/1541-4337.12146

Mune Mune, M. A., & Sogi, D. S. (2015). Functional Properties of Protein Concentrates of Cowpea and Bambara Bean Involving Different Drying Techniques. *Journal of Food Processing and Preservation*, *39*(6), 2304–2313. https://doi.org/10.1111/jfpp.12477

Mune Mune, M. A., Stănciuc, N., Grigore-Gurgu, L., Aprodu, I., & Borda, D. (2020). Structural changes induced by high pressure processing in Bambara bean proteins at different pH. *LWT*, *124*, 109187. https://doi.org/10.1016/j.lwt.2020.109187

Mussinan, C. J., & Katz, I. (1973). Isolation and Identification of Some Sulfur Chemicals Present in Two Model Systems Approximating Cooked Meat. *Journal of Agricultural and Food Chemistry*, *21*(1), 43–45. https://doi.org/10.1021/jf60185a024

Mustakas, G. C., Griffin, E. L., Allen, L. E., & Smith, O. B. (1964). Production and nutritional evaluation of extrusion-cooked full-fat soybean flour. *Journal of the American Oil Chemists’ Society*, *41*(9), 607–614. https://doi.org/10.1007/BF02664977

Mwangi, R. (2008). Inactivation of wild-type Bacillus spores in a soy meat analog model by extrusion cooking. *ProQuest Dissertations and Theses*, (December), 181.

Nachvak, S. M., Moradi, S., Anjom-shoae, J., Rahmani, J., Nasiri, M., Maleki, V., & Sadeghi, O. (2019). Soy, Soy Isoflavones, and Protein Intake in Relation to Mortality from All Causes, Cancers, and Cardiovascular Diseases: A Systematic Review and Dose–Response Meta-Analysis of Prospective Cohort Studies. *Journal of the Academy of Nutrition and Dietetics*, *119*(9), 1483-1500.e17. https://doi.org/10.1016/J.JAND.2019.04.011

Nadathur, S. R., Wanasundara, J. P. D., & Scanlin, L. (2016). *Sustainable Protein Sources*. *Sustainable Protein Sources*. https://doi.org/10.1016/c2014-0-03542-3

Nakai, S. (1983). Structure-Function Relationships of Food Proteins with an Emphasis on the Importance of Protein Hydrophobicity. *Journal of Agricultural and Food Chemistry*, *31*(4), 676–683. https://doi.org/10.1021/jf00118a001

Nakata, T., Kyoui, D., Takahashi, H., Kimura, B., & Kuda, T. (2017). Inhibitory effects of soybean oligosaccharides and water-soluble soybean fibre on formation of putrefactive compounds from soy protein by gut microbiota. *International Journal of Biological Macromolecules*, *97*, 173–180. https://doi.org/10.1016/j.ijbiomac.2017.01.015

Nanta, P., Skolpap, W., & Kasemwong, K. (2021). Influence of hydrocolloids on the rheological and textural attributes of a gluten‐free meat analog based on soy protein isolate. *Journal of Food Processing and Preservation*, e15244. https://doi.org/10.1111/jfpp.15244

Náthia-Neves, G., & Alonso, E. (2021). Valorization of sunflower by-product using microwave-assisted extraction to obtain a rich protein flour: Recovery of chlorogenic acid, phenolic content and antioxidant capacity. *Food and Bioproducts Processing*. https://doi.org/10.1016/j.fbp.2020.10.008

Nawaz, H., Waheed, R., Nawaz, M., & Shahwar, D. (2020). Physical and Chemical Modifications in Starch Structure and Reactivity. In *Chemical Properties of Starch*. IntechOpen. https://doi.org/10.5772/intechopen.88870

Nawrocka, A., Szymańska-Chargot, M., Miś, A., Wilczewska, A. Z., & Markiewicz, K. H. (2017). Aggregation of gluten proteins in model dough after fibre polysaccharide addition. *Food Chemistry*, *231*, 51–60. https://doi.org/10.1016/j.foodchem.2017.03.117

Nehete, J. Y., Bhambar, R. S., Narkhede, M. R., & Gawali, S. R. (2013). Natural proteins: Sources, isolation, characterization and applications. *Pharmacognosy Reviews*, *7*(14). https://doi.org/10.4103/0973-7847.120508

Nesterenko, A., Alric, I., Violleau, F., Silvestre, F., & Durrieu, V. (2014). The effect of vegetable protein modifications on the microencapsulation process. *Food Hydrocolloids*, *41*, 95–102. https://doi.org/10.1016/j.foodhyd.2014.03.017

Nguyen, G. D. T. (1988). *EP0262276A1*. Retrieved from https://patents.google.com/patent/EP0262276A1/en

Niamh, M. (2017). Plant Meat Matters: Unilever, Givaudan and Ingredion invest in vegetarian steak. Retrieved February 16, 2018, from https://www.foodnavigator.com/Article/2017/03/13/Plant-Meat-Matters-Unilever-Givaudan-and-Ingredion-invest-in-vegetarian-steak

Nicolai, T. (2019). Gelation of food protein-protein mixtures. *Advances in Colloid and Interface Science*, *270*, 147–164. https://doi.org/10.1016/J.CIS.2019.06.006

Nierenberg, A., 2020. Plant-Based ‘Meats’ Catch On in the Pandemic. URL: https://www.nytimes.com/2020/05/22/dining/ plant-based-meats-coronavirus.html.

Nieto-Nieto, T.V., Wang, Y.X., Ozimek, L., Chen, L., 2014. Effects of partial hydrolysis on structure and gelling properties of oat globular proteins. *Food Research International 55,* 418–425.

Nieuwland, M., Geerdink, P., Brier, P., Van Den Eijnden, P., Henket, J. T. M. M., Langelaan, M. L. P., … Martin, A. H. (2014). Reprint of “food-grade electrospinning of proteins.” *Innovative Food Science and Emerging Technologies*, *24*(April 2016), 138–144. https://doi.org/10.1016/j.ifset.2014.07.006

Nijdam, D., Rood, T., & Westhoek, H. (2012). The price of protein: Review of land use and carbon footprints from life cycle assessments of animal food products and their substitutes. *Food Policy*, *37*(6), 760–770. https://doi.org/10.1016/j.foodpol.2012.08.002

Nikiforidis, C. V. (2019). Structure and functions of oleosomes (oil bodies). *Advances in Colloid and Interface Science*, *274*, 102039. https://doi.org/10.1016/j.cis.2019.102039

Nikiforidis, C. V., & Scholten, E. (2015). High internal phase emulsion gels (HIPE-gels) created through assembly of natural oil bodies. *Food Hydrocolloids*. https://doi.org/10.1016/j.foodhyd.2014.05.030

Ningtyas, D. W., Tam, B., Bhandari, B., & Prakash, S. (2021). Effect of different types and concentrations of fat on the physico-chemical properties of soy protein isolate gel. *Food Hydrocolloids*, *111*, 106226. https://doi.org/10.1016/j.foodhyd.2020.106226

Nishinari, K., Fang, Y., Guo, S., & Phillips, G. O. (2014). Soy proteins: A review on composition, aggregation and emulsification. *Food Hydrocolloids*, *39*, 301–318. https://doi.org/10.1016/j.foodhyd.2014.01.013

Noriham, A., Muhammad Ariffaizuddin, R., Noorlaila, A., & Faris Zakry, A. N. (2016). Potential use of okara as meat replacer in beef sausage. *Jurnal Teknologi*. https://doi.org/10.11113/jt.v78.9015

O’Connor, A. (2019). Fake Meat vs. Real Meat - The New York Times. Retrieved August 5, 2020, from https://www.nytimes.com/2019/12/03/well/eat/fake-meat-vs-real-meat.html

Obatolu, V. A., Fasoyiro, S. B., & Ogunsunmi, L. (2007). Processing and functional properties of yam beans (sphenostylis stenocarpa). *Journal of Food Processing and Preservation*, *31*(2), 240–249. https://doi.org/10.1111/j.1745-4549.2007.00112.x

OECD. (2020). Agricultural output - Meat consumption - OECD Data. *Oecd*. Retrieved from https://data.oecd.org/agroutput/meat-consumption.htm

O’Flynn, C. C., Cruz-Romero, M. C., Troy, D. J., Mullen, A. M., & Kerry, J. P. (2014). The application of high-pressure treatment in the reduction of phosphate levels in breakfast sausages. *Meat Science*, *96*(1), 633–639. https://doi.org/10.1016/j.meatsci.2013.08.028

Omohimi, C. I., Sobukola, O. P., Sarafadeen, K. O., & Sanni, L. O. (2014). Effect of Thermo-extrusion Process Parameters on Selected Quality Attributes of Meat Analogue from Mucuna Bean Seed Flour. *Nigerian Food Journal*, *32*(1), 21–30. https://doi.org/10.1016/S0189-7241(15)30092-8

Onwulata, C. I., Tunick, M. H., & Qi, P. X. (2011). Extrusion Texturized Dairy Proteins. Processing and Application. *Advances in Food and Nutrition Research*, *62*, 173–200. https://doi.org/10.1016/B978-0-12-385989-1.00005-3

Ooms, N., Jansens, K. J. A., Pareyt, B., Reyniers, S., Brijs, K., & Delcour, J. A. (2018). The impact of disulfide bond dynamics in wheat gluten protein on the development of fermented pastry crumb. *Food Chemistry*, *242*, 68–74. https://doi.org/10.1016/j.foodchem.2017.09.007

Oonincx, D. G. A. B., & de Boer, I. J. M. (2012). Environmental Impact of the Production of Mealworms as a Protein Source for Humans - A Life Cycle Assessment. *PLoS ONE*, *7*(12). https://doi.org/10.1371/journal.pone.0051145

Opazo-Navarrete, M., Tagle Freire, D., Boom, R.M., Janssen, A.E.M., 2019. The Influence of Starch and Fibre on In Vitro Protein Digestibility of Dry Fractionated Quinoa Seed (Riobamba Variety). *Food Biophysics 14,* 49–59.

Osen, R., & Schweiggert-Weisz, U. (2016). *High-Moisture Extrusion: Meat Analogues*. *Reference Module in Food Science*. Elsevier. https://doi.org/10.1016/B978-0-08-100596-5.03099-7

Osen, R., Toelstede, S., Eisner, P., & Schweiggert-Weisz, U. (2015). Effect of high moisture extrusion cooking on protein-protein interactions of pea (Pisum sativum L.) protein isolates. *International Journal of Food Science and Technology*, *50*(6), 1390–1396. https://doi.org/10.1111/ijfs.12783

Osen, R., Toelstede, S., Wild, F., Eisner, P., & Schweiggert-Weisz, U. (2014). High moisture extrusion cooking of pea protein isolates: Raw material characteristics, extruder responses, and texture properties. *Journal of Food Engineering*, *127*, 67–74. https://doi.org/10.1016/j.jfoodeng.2013.11.023

O’Sullivan, M. G. (2016). The Stability and Shelf Life of Meat and Poultry. In *The Stability and Shelf Life of Food* (pp. 521–543). Elsevier. https://doi.org/10.1016/B978-0-08-100435-7.00018-6

O’Toole, D. K. (2015). Soybean: Soymilk, Tofu, and Okara. In *Encyclopedia of Food Grains: Second Edition* (Vol. 3–4, pp. 134–143). Elsevier Inc. https://doi.org/10.1016/B978-0-12-394437-5.00130-3

Ozaki, M. M., Munekata, P. E. S., Lopes, A. de S., Nascimento, M. da S. do, Pateiro, M., Lorenzo, J. M., & Pollonio, M. A. R. (2020). Using chitosan and radish powder to improve stability of fermented cooked sausages. *Meat Science*, *167*, 108165. https://doi.org/10.1016/j.meatsci.2020.108165

Padhi, E. M. T., Hawke, A., Liu, R., Zhu, H., Duncan, A. M., Tsao, R., & Ramdath, D. D. (2016). Tracking isoflavones in whole soy flour, soy muffins and the plasma of hypercholesterolaemic adults. *Journal of Functional Foods*, *24*, 420–428. https://doi.org/10.1016/j.jff.2016.04.027

Pakula, C., & Stamminger, R. (2012). Measuring changes in internal meat colour, colour lightness and colour opacity as predictors of cooking time. *Meat Science*. https://doi.org/10.1016/j.meatsci.2011.11.002

Palanisamy, M., Töpfl, S., Aganovic, K., & Berger, R. G. (2018). Influence of iota carrageenan addition on the properties of soya protein meat analogues, *87*, 546–552. Retrieved from https://www.sciencedirect.com/science/article/pii/S0023643817307041

Palanisamy, M., Töpfl, S., Berger, R. G., & Hertel, C. (2019). Physico-chemical and nutritional properties of meat analogues based on Spirulina/lupin protein mixtures. *European Food Research and Technology*, *245*(9), 1889–1898. https://doi.org/10.1007/s00217-019-03298-w

Palmer, H. C. (1969). US3645747A - Method of producing a simulated meat. Retrieved from https://patents.google.com/patent/US3645747A/en

Pan, M.-K., Zhou, F.-F., Shi, R.-H., Liu, Y., Zhang, Q., & Wang, J.-H. (2019). Characterizations of a pectin extracted from Premna microphylla turcz and its cold gelation with whey protein concentrate at different pHs. *International Journal of Biological Macromolecules*, *139*, 818–826. https://doi.org/10.1016/J.IJBIOMAC.2019.08.074

Pang, Z., Luo, Y., Li, B., Zhang, M., & Liu, X. (2020). Effect of different hydrocolloids on tribological and rheological behaviors of soymilk gels. *Food Hydrocolloids*, *101*, 105558. https://doi.org/10.1016/j.foodhyd.2019.105558

Pang, Z., Safdar, B., Wang, Y., Sun, M., & Liu, X. (2021). Improvement of tribo-rheological properties of acid soymilk gels by reinforcement of 7S or 11S proteins. *Food Hydrocolloids*, *110*, 106173. https://doi.org/10.1016/j.foodhyd.2020.106173

Pang, Z., Xu, R., Zhu, Y., Bansal, N., & Liu, X. (2020). Tribo-rheology and kinetics of soymilk gelation with different types of milk proteins. *Food Chemistry*, *311*, 125961. https://doi.org/10.1016/j.foodchem.2019.125961

Papalamprou, E. M., Doxastakis, G. I., Biliaderis, C. G., & Kiosseoglou, V. (2009). Influence of preparation methods on physicochemical and gelation properties of chickpea protein isolates. *Food Hydrocolloids*, *23*(2), 337–343. https://doi.org/10.1016/j.foodhyd.2008.03.006

PARK, J. W. (1994). Functional Protein Additives in Surimi Gels. *Journal of Food Science*, *59*(3), 525–527. https://doi.org/10.1111/j.1365-2621.1994.tb05554.x

Parmer, E. L., Wang, B., Aglan, H. A., & Mortley, D. (2004). Physicochemical Properties of Texturized Meat Analog Made From Peanut Flour and Soy Protein Isolate With a Single-Screw Extruder. *Journal of Texture Studies*, *35*(4), 371–382. https://doi.org/10.1111/j.1745-4603.2004.tb00601.x

Patel, J. R., Patel, A. A., & Singh, A. K. (2016). Production of a protein-rich extruded snack base using tapioca starch, sorghum flour and casein. *Journal of Food Science and Technology*, *53*(1), 71–87. https://doi.org/10.1007/s13197-015-2012-z

Patil, S., Brennan, M., Mason, S., & Brennan, C. (2016). The Effects of Fortification of Legumes and Extrusion on the Protein Digestibility of Wheat Based Snack. *Foods*, *5*(2), 26. https://doi.org/10.3390/foods5020026

Paximada, P., Howarth, M., & Dubey, B. N. (2021). Double emulsions fortified with plant and milk proteins as fat replacers in cheese. *Journal of Food Engineering*, *288*, 110229. https://doi.org/10.1016/j.jfoodeng.2020.110229

Payne, T., & Egbert, R. (1995). *US5626899A*. Retrieved from https://patents.google.com/patent/US5626899

Peighambardoust, S. H., van Brenk, S., van der Goot, A. J., Hamer, R. J., & Boom, R. M. (2007). Dough processing in a Couette-type device with varying eccentricity: Effect on glutenin macro-polymer properties and dough micro-structure. *Journal of Cereal Science*, *45*(1), 34–48. https://doi.org/10.1016/j.jcs.2006.05.009

Peighambardoust, S. H., & van der Goot, A. J. (2010). Migration of gluten under shear flow: Influence of process parameters on separation behaviour. *Food Chemistry*, *118*(3), 712–718. https://doi.org/10.1016/j.foodchem.2009.05.051

Peighambardoust, S. H., Van Der Goot, A. J., Hamer, R. J., & Boom, R. M. (2004). A new method to study simple shear processing of wheat gluten-starch mixtures. *Cereal Chemistry*, *81*(6), 714–721. https://doi.org/10.1094/CCHEM.2004.81.6.714

Peighambardoust, S. H., van der Goot, A. J., van Vliet, T., Hamer, R. J., & Boom, R. M. (2006). Microstructure formation and rheological behaviour of dough under simple shear flow. *Journal of Cereal Science*, *43*(2), 183–197. https://doi.org/10.1016/j.jcs.2005.10.004

Peksa, A., Rytel, E., Kita, A., Lisinska, G., & Tajner-Czopek, A. (2009). The Properties of Potato Protein. *Food*, *3*(1), 79–87.

Pelgrom, P. J. M., Berghout, J. A. M., van der Goot, A. J., Boom, R. M., & Schutyser, M. A. I. (2014). Preparation of functional lupine protein fractions by dry separation. *LWT - Food Science and Technology*, *59*(2P1), 680–688. https://doi.org/10.1016/j.lwt.2014.06.007

Pelgrom, P.J.M., Boom, R.M., Schutyser, M.A.I., 2015. Functional analysis of mildly refined fractions from yellow pea. *Food Hydrocolloids 44,* 12–22.

Pendurkar, S. H., & Kulkarni, P. R. (1990). Heat resistance of Bacillus spores exposed to food processing conditions. *Food / Nahrung*, *34*(2), 177–180. https://doi.org/10.1002/food.19900340224

Peng, X., & Guo, S. (2015). Texture characteristics of soymilk gels formed by lactic fermentation: A comparison of soymilk prepared by blanching soybeans under different temperatures. *Food Hydrocolloids*, *43*, 58–65. https://doi.org/10.1016/j.foodhyd.2014.04.034

Peng, X., Ren, C., & Guo, S. (2016, August 1). Particle formation and gelation of soymilk: Effect of heat. *Trends in Food Science and Technology*. Elsevier Ltd. https://doi.org/10.1016/j.tifs.2016.06.005

Peng, Y., Dewi, D. P. A. P., Kyriakopoulou, K., & van der Goot, A. J. (2020). Effect of calcium hydroxide and fractionation process on the functional properties of soy protein concentrate. *Innovative Food Science and Emerging Technologies*, *66*, 102501. https://doi.org/10.1016/j.ifset.2020.102501

Peng, Y., Kyriakopoulou, K., Rahmani, A., Venema, P., van der Goot, A.J., 2021. Isochoric moisture heating as a tool to control the functionality of soy protein. *LWT 150*, 111979.

Peng, Y., Kersten, N., Kyriakopoulou, K., & van der Goot, A. J. (2020). Functional properties of mildly fractionated soy protein as influenced by the processing pH. *Journal of Food Engineering*, *275*, 109875. https://doi.org/10.1016/j.jfoodeng.2019.109875

Peričin, D., Radulović, L., Trivić, S., & Dimić, E. (2008). Evaluation of solubility of pumpkin seed globulins by response surface method. *Journal of Food Engineering*, *84*(4), 591–594. https://doi.org/10.1016/j.jfoodeng.2007.07.002

Peters, J. P. C. M., Vergeldt, F. J., Boom, R. M., & van der Goot, A. J. (2017). Water-binding capacity of protein-rich particles and their pellets. *Food Hydrocolloids*. https://doi.org/10.1016/j.foodhyd.2016.11.015

Petrovic, Z., Djordjevic, V., Milicevic, D., Nastasijevic, I., & Parunovic, N. (2015). Meat Production and Consumption: Environmental Consequences. *Procedia Food Science*, *5*, 235–238. https://doi.org/10.1016/j.profoo.2015.09.041

Peyrano, F., de Lamballerie, M., Avanza, M. V., & Speroni, F. (2019). Rheological characterization of the thermal gelation of cowpea protein isolates: Effect of pretreatments with high hydrostatic pressure or calcium addition. *LWT*, *115*, 108472. https://doi.org/10.1016/j.lwt.2019.108472

Pham, T. T., Tran, T. T. T., Ton, N. M. N., & Le, V. V. M. (2017). Effects of pH and Salt Concentration on Functional Properties of Pumpkin Seed Protein Fractions. *Journal of Food Processing and Preservation*, *41*(4), e13073. https://doi.org/10.1111/jfpp.13073

Pietrasik, Z., & Janz, J. A. M. (2010). Utilization of pea flour, starch-rich and fiber-rich fractions in low fat bologna. *Food Research International*, *43*(2), 602–608. https://doi.org/10.1016/j.foodres.2009.07.017

Pietrasik, Z., Sigvaldson, M., Soladoye, O. P., & Gaudette, N. J. (2020). Utilization of pea starch and fibre fractions for replacement of wheat crumb in beef burgers. *Meat Science*, *161*, 107974. https://doi.org/10.1016/j.meatsci.2019.107974

Pietrasik, Z., Wang, H., & Janz, J. A. M. (2013). Effect of canola oil emulsion injection on processing characteristics and consumer acceptability of three muscles from mature beef. *Meat Science*, *93*(2), 322–328. https://doi.org/10.1016/j.meatsci.2012.09.014

Pietsch, V. L., Bühler, J. M., Karbstein, H. P., & Emin, M. A. (2019). High moisture extrusion of soy protein concentrate: Influence of thermomechanical treatment on protein-protein interactions and rheological properties. *Journal of Food Engineering*, *251*, 11–18. https://doi.org/10.1016/j.jfoodeng.2019.01.001

Pietsch, V. L., Emin, M. A., & Schuchmann, H. P. (2017). Process conditions influencing wheat gluten polymerization during high moisture extrusion of meat analog products. *Journal of Food Engineering*, *198*, 28–35. https://doi.org/10.1016/j.jfoodeng.2016.10.027

Pietsch, V. L., Karbstein, H. P., & Emin, M. A. (2018). Kinetics of wheat gluten polymerization at extrusion-like conditions relevant for the production of meat analog products. *Food Hydrocolloids*, *85*, 102–109. https://doi.org/10.1016/J.FOODHYD.2018.07.008

Pietsch, V. L., Schöffel, F., Rädle, M., Karbstein, H. P., & Emin, M. A. (2019). High moisture extrusion of wheat gluten: Modeling of the polymerization behavior in the screw section of the extrusion process. *Journal of Food Engineering*, *246*, 67–74. https://doi.org/10.1016/J.JFOODENG.2018.10.031

Pietsch, V. L., Werner, R., Karbstein, H. P., & Emin, M. A. (2019). High moisture extrusion of wheat gluten: Relationship between process parameters, protein polymerization, and final product characteristics. *Journal of Food Engineering*, *259*, 3–11. https://doi.org/10.1016/J.JFOODENG.2019.04.006

Pimentel, D., & Pimentel, M. (2003). Sustainability of meat-based and plant-based diets and the environment. In *American Journal of Clinical Nutrition* (Vol. 78). https://doi.org/10.1177/0956247808089156

Pintado, T., & Delgado-Pando, G. (2020). Towards more sustainable meat products: Extenders as a way of reducing meat content. *Foods*. https://doi.org/10.3390/foods9081044

Pinterits, A., & Arntfield, S. D. (2008). Improvement of canola protein gelation properties through enzymatic modification with transglutaminase. *LWT - Food Science and Technology*, *41*(1), 128–138. https://doi.org/10.1016/J.LWT.2007.01.011

Pinton, M. B., dos Santos, B. A., Lorenzo, J. M., Cichoski, A. J., Boeira, C. P., & Campagnol, P. C. B. (2020, August 1). Green technologies as a strategy to reduce NaCl and phosphate in meat products: an overview. *Current Opinion in Food Science*. Elsevier Ltd. https://doi.org/10.1016/j.cofs.2020.03.011

Pöhnl, H. (2016). Applications of Different Curing Approaches and Natural Colorants in Meat Products. In *Handbook on Natural Pigments in Food and Beverages: Industrial Applications for Improving Food Color* (pp. 209–225). Elsevier Inc. https://doi.org/10.1016/B978-0-08-100371-8.00010-5

Pojić, M., Mišan, A., & Tiwari, B. (2018, May 1). Eco-innovative technologies for extraction of proteins for human consumption from renewable protein sources of plant origin. *Trends in Food Science and Technology*. Elsevier Ltd. https://doi.org/10.1016/j.tifs.2018.03.010

Pomeranz, Y. (1985). *Functional Properties of Food Components*. *Functional Properties of Food Components*. https://doi.org/10.1016/b978-0-12-561280-7.x5001-3

Ponsioen, T. C., & Blonk, T. J. (2012). Calculating land use change in carbon footprints of agricultural products as an impact of current land use. *Journal of Cleaner Production*, *28*, 120–126. https://doi.org/10.1016/j.jclepro.2011.10.014

Post, M. J. (2012). Cultured meat from stem cells: Challenges and prospects. *Meat Science*, *92*(3), 297–301. https://doi.org/10.1016/j.meatsci.2012.04.008

Powell, M. J., Sebranek, J. G., Prusa, K. J., & Tarté, R. (2019). Evaluation of citrus fiber as a natural replacer of sodium phosphate in alternatively-cured all-pork Bologna sausage. *Meat Science*, *157*, 107883. https://doi.org/10.1016/j.meatsci.2019.107883

Puerta, P., Garzón, R., Rosell, C. M., Fiszman, S., Laguna, L., & Tárrega, A. (2021). Modifying gluten-free bread’s structure using different baking conditions: Impact on oral processing and texture perception. *LWT*. https://doi.org/10.1016/j.lwt.2020.110718

Punitha, S., Uvarani, R., & Panneerselvam, A. (2020). Effect of pH in aqueous (Hydroxy Propyl Methyl Cellulose) polymer solution. *Results in Materials*, *7*, 100120. https://doi.org/10.1016/j.rinma.2020.100120

Puolanne, E., & Halonen, M. (2010). Theoretical aspects of water-holding in meat. *Meat Science*, *86*(1), 151–165. https://doi.org/10.1016/j.meatsci.2010.04.038

Qi, L., & Hu, F. B. (2007). Dietary glycemic load, whole grains, and systemic inflammation in diabetes: The epidemiological evidence. *Current Opinion in Lipidology*. https://doi.org/10.1097/MOL.0b013e328011c6e0

Qi, P. X., & Onwulata, C. I. (2011). Physical properties, molecular structures, and protein quality of texturized whey protein isolate: effect of extrusion moisture content. *Journal of Dairy Science*, *94*(5), 2231–2244. https://doi.org/10.3168/jds.2010-3942

Queguiner, C., Cheftel, J.-C., & Dumay, E. (1992). *EP0515246A2*. Retrieved from https://patents.google.com/patent/EP0515246A2/en?q=meat+analogue&inventor=cheftel

Quorn, 2020. Quorn Meatless Nuggets. URL: https://www.quorn.us/ products/quorn-meatless-chicken-nuggets.

Rackis, J. J., Sessa, D. J., & Honig, D. H. (1979). Flavor problems of vegetable food proteins. *Journal of the American Oil Chemists’ Society*, *56*(3), 262–271. https://doi.org/10.1007/BF02671470

Raharjo, S., Dexter’, D. R., Sofos’, J. N., & Schmidt, G. R. (1996). Performance of methylcellulose and hydroxypropyl-methylcellulose as moisture retention and gelling additives in low fat ground beef patties. *Indonesian Food and Nutrition Progress*, *3*(1), 31–38. Retrieved from https://www.researchgate.net/publication/316987102\_Performance\_of\_methylcellulose\_and\_hydroxypropyl-methylcellulose\_as\_moisture\_retention\_and\_gelling\_additives\_in\_low\_fat\_ground\_beef\_patties

Radeloff, M.A., Beck, R.H.F., 2016. ”Clean label” - Starches and their func- tional diversity. Zuckerindustrie. Sugar Industry .

Ralet, M. C., & Guéguen, J. (2000). Fractionation of Potato Proteins: Solubility, Thermal Coagulation and Emulsifying Properties. *LWT - Food Science and Technology*, *33*(5), 380–387. https://doi.org/10.1006/fstl.2000.0672

Ramachandra, H. G., & Thejaswini, M. L. (2015). Extrusion technology: A novel method of food processing. *International Journal of Innovative Science, Engineering & Technology*, *2*(4), 358–369.

Ramji, K., & Shah, R. N. (2014). Electrospun soy protein nanofiber scaffolds for tissue regeneration. *Journal of Biomaterials Applications*, *29*(3), 411–422. https://doi.org/10.1177/0885328214530765

Ranasinghesagara, J., Hsieh, F.-H., & Yao, G. (2005). An Image Processing Method for Quantifying Fiber Formation in Meat Analogs Under High Moisture Extrusion. *Journal of Food Science*, *70*(8), e450–e454. https://doi.org/10.1111/j.1365-2621.2005.tb11513.x

Raymundo, A., Franco, J. M., Empis, J., & Sousa, I. (2002). Optimization of the composition of low-fat oil-in-water emulsions stabilized by white lupin protein. *Journal of the American Oil Chemists’ Society*, *79*(8), 783–790. https://doi.org/10.1007/s11746-002-0559-6

Recanati, F., Allievi, F., Scaccabarozzi, G., Espinosa, T., Dotelli, G., & Saini, M. (2015). Global Meat Consumption Trends and Local Deforestation in Madre de Dios: Assessing Land Use Changes and other Environmental Impacts. *Procedia Engineering*, *118*, 630–638. https://doi.org/10.1016/j.proeng.2015.08.496

Redl, A., Feneuil, A., & Vogel, F. (2015). WO2016035059A2 - An inclusion containing proteinaceous meat analogue having an improved texture and an extended shelf-life. Retrieved from https://patents.google.com/patent/EP3188606A2/en

Reed, D. M. D., Walter, L. A. J., Schmitz, A. N., Guadián-García, D. E., & Lawrence, T. E. (2017). Post-mortem mechanical injection of low quality beef loins with pork back fat improves palatability and sensory attributes. *Meat Science*, *123*, 205–210. https://doi.org/10.1016/j.meatsci.2016.10.002

Rehman, Z. U., & Shah, W. H. (2005). Thermal heat processing effects on antinutrients, protein and starch digestibility of food legumes. *Food Chemistry*, *91*(2), 327–331. https://doi.org/10.1016/j.foodchem.2004.06.019

Rehrah, D., Ahmedna, M., Goktepe, I., & Yu, J. (2009). Extrusion parameters and consumer acceptability of a peanut-based meat analogue. *International Journal of Food Science & Technology*, *44*(10), 2075–2084. https://doi.org/10.1111/j.1365-2621.2009.02035.x

Reig, M., Lillford, P. J., & Toldrá, F. (2008). Structured Meat Products. In *Food Materials Science* (pp. 501–523). New York, NY: Springer New York. https://doi.org/10.1007/978-0-387-71947-4\_21

Renkema, J. M. S., Lakemond, C. M. M., De Jongh, H. H. J., Gruppen, H., & Van Vliet, T. (2000). The effect of pH on heat denaturation and gel forming properties of soy proteins. In *Journal of Biotechnology* (Vol. 79, pp. 223–230). https://doi.org/10.1016/S0168-1656(00)00239-X

Resurreccion, A. V. . (2004). Sensory aspects of consumer choices for meat and meat products. *Meat Science*, *66*(1), 11–20. https://doi.org/10.1016/S0309-1740(03)00021-4

Rezig, L., Chibani, F., Chouaibi, M., Dalgalarrondo, M., Hessini, K., Guéguen, J., & Hamdi, S. (2013). Pumpkin (cucurbita maxima) seed proteins: Sequential extraction processing and fraction characterization. *Journal of Agricultural and Food Chemistry*, *61*(32), 7715–7721. https://doi.org/10.1021/jf402323u

Rezig, L., Riaublanc, A., Chouaibi, M., Guéguen, J., & Hamdi, S. (2016). Functional Properties of Protein Fractions Obtained from Pumpkin (Cucurbita Maxima) Seed. *International Journal of Food Properties*, *19*(1), 172–186. https://doi.org/10.1080/10942912.2015.1020433

Rezler, R., Krzywdzińska-Bartkowiak, M., & Piątek, M. (2021). The influence of the substitution of fat with modified starch on the quality of pork liver pâtés. *LWT*, *135*, 110264. https://doi.org/10.1016/j.lwt.2020.110264

Riaz, M. N. (2011). Texturized vegetable proteins. In *Handbook of Food Proteins* (pp. 395–418). Woodhead Publishing Limited. https://doi.org/10.1016/B978-1-84569-758-7.50015-0

Riaz, M. N. (2004). Texturized soy protein as an ingredient. In *Proteins in Food Processing* (pp. 517–558). https://doi.org/10.1533/9781855738379.3.517

Riaz, M. N. (2013). Food Extruders. In *Handbook of Farm, Dairy and Food Machinery Engineering: Second Edition* (pp. 427–440). https://doi.org/10.1016/B978-0-12-385881-8.00016-1

Ribotta, P.D., Colombo, A., Le´on, A.E., An˜´on, M.C., 2007. Effects of Soy Protein on Physical and Rheological Properties of Wheat Starch. *Starch - St¨arke 59*, 614–623.

Rinaldoni, A. N., Palatnik, D. R., Zaritzky, N., & Campderrós, M. E. (2014). Soft cheese-like product development enriched with soy protein concentrates. *LWT - Food Science and Technology*, *55*(1), 139–147. https://doi.org/10.1016/j.lwt.2013.09.003

Rios, R. V., Pessanha, M. D. F., de Almeida, P. F., Viana, C. L., & Lannes, S. C. da S. (2014). Application of fats in some food products. *Food Science and Technology*. https://doi.org/10.1590/S0101-20612014000100001

Rios-Mera, J. D., Saldaña, E., Cruzado-Bravo, M. L. M., Martins, M. M., Patinho, I., Selani, M. M., … Contreras-Castillo, C. J. (2020). Impact of the content and size of NaCl on dynamic sensory profile and instrumental texture of beef burgers. *Meat Science*. https://doi.org/10.1016/j.meatsci.2019.107992

Rizvi, S. S. H. H., Blaisdell, J. L., & Harper, W. J. (1980). Thermal diffusivity of model meat analog systems. *Journal of Food Science*, *45*(6), 1727–1731. https://doi.org/10.1111/j.1365-2621.1980.tb07598.x

Roa, B., Yildiz, E., Martin, A., 2019. Starch blends and uses thereof. URL: https://patentimages.storage.googleapis.com/58/b6/22/b5005f7bc0aa69/WO2019089656A1.pdf.

Robert, P., Zamorano, M., González, E., Silva-Weiss, A., Cofrades, S., & Giménez, B. (2019). Double emulsions with olive leaves extract as fat replacers in meat systems with high oxidative stability. *Food Research International*, *120*, 904–912. https://doi.org/10.1016/J.FOODRES.2018.12.014

Roessl, U., Leitgeb, S., & Nidetzky, B. (2015). Protein freeze concentration and micro-segregation analysed in a temperature-controlled freeze container. *Biotechnology Reports*, *6*, 108–111. https://doi.org/10.1016/j.btre.2015.03.004

Rolan, T., Mueller, I., Mertle, T. J., Swenson, K., Colleen, C., Orcutt, M. W., … Mease, L. (2008). *US20080268112A1; WO2008083117A2*. Retrieved from https://patents.google.com/patent/US20080268112

Roland, W. S. U., Pouvreau, L., Curran, J., van de Velde, F., & de Kok, P. M. T. (2017). Flavor Aspects of Pulse Ingredients. *Cereal Chemistry Journal*, *94*(1), 58–65. https://doi.org/10.1094/CCHEM-06-16-0161-FI

Romarheim, O. H., Aslaksen, M. A., Storebakken, T., Krogdahl, Å., & Skrede, A. (2005). Effect of extrusion on trypsin inhibitor activity and nutrient digestibility of diets based on fish meal, soybean meal and white flakes. *Archives of Animal Nutrition*, *59*(6), 365–375. https://doi.org/10.1080/17450390500352897

Romero-Guzmán, M. J., Jung, L., Kyriakopoulou, K., Boom, R. M., & Nikiforidis, C. V. (2020). Efficient single-step rapeseed oleosome extraction using twin-screw press. *Journal of Food Engineering*, *276*, 109890. https://doi.org/10.1016/j.jfoodeng.2019.109890

Röös, E., Ekelund, L., & Tjärnemo, H. (2014). Communicating the environmental impact of meat production: Challenges in the development of a Swedish meat guide. *Journal of Cleaner Production*, *73*, 154–164. https://doi.org/10.1016/j.jclepro.2013.10.037

Rousseau, O. (2017). Dutch researchers warn against meat ‘overconsumption.’ Retrieved March 21, 2018, from https://www.globalmeatnews.com/Article/2017/01/31/Dutch-researchers-warn-against-meat-overconsumption

Różyło, R. (2020, August 1). Recent trends in methods used to obtain natural food colorants by freeze-drying. *Trends in Food Science and Technology*. Elsevier Ltd. https://doi.org/10.1016/j.tifs.2020.06.005

Rubio, N. R., Fish, K. D., Trimmer, B. A., & Kaplan, D. L. (2019). Possibilities for Engineered Insect Tissue as a Food Source. *Frontiers in Sustainable Food Systems*, *3*, 24. https://doi.org/10.3389/fsufs.2019.00024

Rueda, J., Kill-Chang, Y., & Martínez-Bustos, F. (2004). Functional characteristics of texturized defatted soy flour. *Agrociencia*, *38*(1), 63–73.

Rubio, N.R., Xiang, N., Kaplan, D.L., 2020. Plant-based and cell-based approaches to meat production. *Nature Communications 11*, 1–11.

Ruiz, G. A., Xiao, W., Van Boekel, M., Minor, M., & Stieger, M. (2016). Effect of extraction pH on heat-induced aggregation, gelation and microstructure of protein isolate from quinoa (Chenopodium quinoa Willd). *Food Chemistry*, *209*, 203–210. https://doi.org/10.1016/j.foodchem.2016.04.052

Rutherfurd, S. M., Fanning, A. C., Miller, B. J., & Moughan, P. J. (2015). Protein Digestibility-Corrected Amino Acid Scores and Digestible Indispensable Amino Acid Scores Differentially Describe Protein Quality in Growing Male Rats. *The Journal of Nutrition*, *145*(2), 372–379. https://doi.org/10.3945/jn.114.195438

Ruzengwe, F. M., Amonsou, E. O., & Kudanga, T. (2020). Rheological and microstructural properties of Bambara groundnut protein gels. *LWT*, *123*, 109070. https://doi.org/10.1016/j.lwt.2020.109070

S eczyk, L., Swieca, M., Kapusta, I., & Gawlik-Dziki, U. (2019). Protein–phenolic interactions as a factor affecting the physicochemical properties of white bean proteins. *Molecules*, *24*(3). https://doi.org/10.3390/molecules24030408

Sá, A. G. A., Moreno, Y. M. F., & Carciofi, B. A. M. (2019). Food processing for the improvement of plant proteins digestibility. *Critical Reviews in Food Science and Nutrition*. Taylor and Francis Inc. https://doi.org/10.1080/10408398.2019.1688249

Sá, A. G. A., Moreno, Y. M. F., & Carciofi, B. A. M. (2020, March 1). Plant proteins as high-quality nutritional source for human diet. *Trends in Food Science and Technology*. Elsevier Ltd. https://doi.org/10.1016/j.tifs.2020.01.011

Saatchi, A., Kiani, H., & Labbafi, M. (2019). A new functional protein‑polysaccharide conjugate based on protein concentrate from sesame processing by-products: Functional and physico-chemical properties. *International Journal of Biological Macromolecules*, *122*, 659–666. https://doi.org/10.1016/j.ijbiomac.2018.10.122

Saavoss, M. (2019). “How Might Cellular Agriculture Impact the Livestock, Dairy, and Poultry Industries?”, 1st Quarter 2019 | Choices Magazine Online. Retrieved June 15, 2020, from https://www.choicesmagazine.org/choices-magazine/submitted-articles/how-might-cellular-agriculture-impact-the-livestock-dairy-and-poultry-industries

Sadler, M. J. (2004). Meat alternatives - Market developments and health benefits. *Trends in Food Science and Technology*, *15*(5), 250–260. https://doi.org/10.1016/j.tifs.2003.09.003

Sagoo, S. K., Little, C. L., Greenwood, M., Mithani, V., Grant, K. A., McLauchlin, J., … Threlfall, E. J. (2009). Assessment of the microbiological safety of dried spices and herbs from production and retail premises in the United Kingdom. *Food Microbiology*, *26*(1), 39–43. https://doi.org/10.1016/j.fm.2008.07.005

Saha, D., & Bhattacharya, S. (2010). Hydrocolloids as thickening and gelling agents in food: a critical review. *Journal of Food Science and Technology*, *47*(6), 587–597. https://doi.org/10.1007/s13197-010-0162-6

Sahin, S., Sumnu, G., & Altunakar, B. (2005). Effects of batters containing different gum types on the quality of deep-fat fried chicken nuggets. *Journal of the Science of Food and Agriculture*, *85*(14), 2375–2379. https://doi.org/10.1002/jsfa.2258

Saiidi, U., 2019. Meatless alternatives are on the rise - but so is global meat consumption. URL: https://www.cnbc.com/2019/06/18/meatless-alternatives-are-on-the-rise-so-is-global-meat-consumption. html.

Salgado, P. R., Molina Ortiz, S. E., Petruccelli, S., & Mauri, A. N. (2012). Functional Food Ingredients Based on Sunflower Protein Concentrates Naturally Enriched with Antioxidant Phenolic Compounds. *Journal of the American Oil Chemists’ Society*, *89*(5), 825–836. https://doi.org/10.1007/s11746-011-1982-x

Samard, S., & Ryu, G. (2019). A comparison of physicochemical characteristics, texture, and structure of meat analogue and meats. *Journal of the Science of Food and Agriculture*, *99*(6), 2708–2715. https://doi.org/10.1002/jsfa.9438

Sanches de Lima, F., & Ida, E. I. (2014). Optimisation of soybean hydrothermal treatment for the conversion of β-glucoside isoflavones to aglycones. *LWT - Food Science and Technology*, *56*(2), 232–239. https://doi.org/10.1016/j.lwt.2013.12.006

Sandoval Murillo, J. L., Osen, R., Hiermaier, S., & Ganzenmüller, G. (2019). Towards understanding the mechanism of fibrous texture formation during high-moisture extrusion of meat substitutes. *Journal of Food Engineering*, *242*, 8–20. https://doi.org/10.1016/J.JFOODENG.2018.08.009

Santos, M. dos, Ozaki, M. M., Ribeiro, W. O., Paglarini, C. de S., Vidal, V. A. S., Campagnol, P. C. B., & Pollonio, M. A. R. (2020). Emulsion gels based on pork skin and dietary fibers as animal fat replacers in meat emulsions: An adding value strategy to byproducts. *LWT*, *120*, 108895. https://doi.org/10.1016/j.lwt.2019.108895

Sato, K., & Miller, A. F. J. (1974). US3958019A - Color treatment for soybean food products. Retrieved from https://patents.google.com/patent/US3958019A/en

Savadkoohi, S., Hoogenkamp, H., Shamsi, K., & Farahnaky, A. (2014). Color, sensory and textural attributes of beef frankfurter, beef ham and meat-free sausage containing tomato pomace. *Meat Science*, *97*(4), 410–418. https://doi.org/10.1016/j.meatsci.2014.03.017

Savell, J. W., & Cross, H. R. (1988). The role of fat in the palatability of beef, pork and lamb. Committee on technological options to improve the nutritional attributes of animal products. In *Designing Foods: Animal product options in the marketplace* (pp. 345–355). https://doi.org/10.17226/661

Scarborough, P., Appleby, P. N., Mizdrak, A., Briggs, A. D. M., Travis, R. C., Bradbury, K. E., & Key, T. J. (2014). Dietary greenhouse gas emissions of meat-eaters, fish-eaters, vegetarians and vegans in the UK. *Climatic Change*, *125*(2), 179–192. https://doi.org/10.1007/s10584-014-1169-1

Schiffman, J. D., & Schauer, C. L. (2008). A review: Electrospinning of biopolymer nanofibers and their applications. *Polymer Reviews*, *48*(2), 317–352. https://doi.org/10.1080/15583720802022182

Schindler, S., Wittig, M., Zelena, K., Krings, U., Bez, J., Eisner, P., & Berger, R. G. (2011). Lactic fermentation to improve the aroma of protein extracts of sweet lupin (Lupinus angustifolius). *Food Chemistry*, *128*(2), 330–337. https://doi.org/10.1016/j.foodchem.2011.03.024

Schindler, S., Zelena, K., Krings, U., Bez, J., Eisner, P., & Berger, R. G. (2012). Improvement of the Aroma of Pea (Pisum sativum) Protein Extracts by Lactic Acid Fermentation. *Food Biotechnology*, *26*(1), 58–74. https://doi.org/10.1080/08905436.2011.645939

Schmidt, J. M., Damgaard, H., Greve-Poulsen, M., Larsen, L. B., & Hammershøj, M. (2018). Foam and emulsion properties of potato protein isolate and purified fractions. *Food Hydrocolloids*, *74*, 367–378. https://doi.org/10.1016/j.foodhyd.2017.07.032

Schmidt, J. M., Damgaard, H., Greve-Poulsen, M., Sunds, A. V., Larsen, L. B., & Hammershøj, M. (2019). Gel properties of potato protein and the isolated fractions of patatins and protease inhibitors – Impact of drying method, protein concentration, pH and ionic strength. *Food Hydrocolloids*, *96*, 246–258. Retrieved from https://www.sciencedirect.com/science/article/pii/S0268005X18322549

Schmiele, M., Nucci Mascarenhas, M. C. C., da Silva Barretto, A. C., & Rodrigues Pollonio, M. A. (2015). Dietary fiber as fat substitute in emulsified and cooked meat model system. *LWT - Food Science and Technology*, *61*(1), 105–111. https://doi.org/10.1016/j.lwt.2014.11.037

Schmitt, C., Silva, J. V., Amagliani, L., Chassenieux, C., & Nicolai, T. (2019). Heat-induced and acid-induced gelation of dairy/plant protein dispersions and emulsions. *Current Opinion in Food Science*, *27*, 43–48. https://doi.org/10.1016/J.COFS.2019.05.002

Scholliers, J., Steen, L., Glorieux, S., Van de Walle, D., Dewettinck, K., & Fraeye, I. (2019). The effect of temperature on structure formation in three insect batters. *Food Research International*, *122*, 411–418. https://doi.org/10.1016/J.FOODRES.2019.04.033

Schösler, H., Boer, J. de, & Boersema, J. J. (2012). Can we cut out the meat of the dish? Constructing consumer-oriented pathways towards meat substitution. *Appetite*, *58*(1), 39–47. https://doi.org/10.1016/j.appet.2011.09.009

Schreuders, F. K. G., Dekkers, B. L., Bodnár, I., Erni, P., Boom, R. M., & van der Goot, A. J. (2019). Comparing structuring potential of pea and soy protein with gluten for meat analogue preparation. *Journal of Food Engineering*, *261*, 32–39. https://doi.org/10.1016/j.jfoodeng.2019.04.022

Schreuders, F.K.G., Bodn´ar, I., Erni, P., Boom, R.M., van der Goot, A.J., 2020. Water redistribution determined by time domain NMR explains rheological properties of dense fibrous protein blends at high temperature*. Food Hydrocolloids 101*, 105562.

Schreuders, F.K.G., Schlangen, M., Kyriakopoulou, K., Boom, R.M., van der Goot, A.J., 2021. Texture methods for evaluating meat and meat analogue structures: A review. *Food Control 127*, 108103.

Schulz, S. (2015). New EU labeling law: Omission of food additives and enzymes from the list of ingredients under regulation (EC) no. 1169/2011. *European Food and Feed Law Review*.

Schutyser, M. A. I., Pelgrom, P. J. M., van der Goot, A. J., & Boom, R. M. (2015). Dry fractionation for sustainable production of functional legume protein concentrates. *Trends in Food Science and Technology*, *45*(2), 327–335. https://doi.org/10.1016/j.tifs.2015.04.013

Schutyser, M. A. I., & van der Goot, A. J. (2011). The potential of dry fractionation processes for sustainable plant protein production. *Trends in Food Science and Technology*, *22*(4), 154–164. https://doi.org/10.1016/j.tifs.2010.11.006

Schwartz, J. M., Solé, V., Guéguen, J., Ropers, M. H., Riaublanc, A., & Anton, M. (2015). Partial replacement of β-casein by napin, a rapeseed protein, as ingredient for processed foods: Thermoreversible aggregation. *LWT - Food Science and Technology*, *63*(1), 562–568. https://doi.org/10.1016/j.lwt.2015.03.084

Schwartzberg, H. G., & Hartel, R. W. (1992). *Physical Chemistry of Foods*.

Schwenke, K.D., Prahl, L., Rauschal, E., Gwiazda, S., Dabrowski, K., Rutkowski, A., 1981. Functional properties of plant proteins. Part 2. Se- lected physicochemical properties of native and denatured protein isolates from faba beans, soybeans, and sunflower seed. *Food / Nahrung 25*, 59–69.

Senthilingam, M. (2017). Are Germans leading a vegan revolution? - CNN. Retrieved February 16, 2018, from https://edition.cnn.com/2017/05/03/health/germany-vegan-vegetarian-diets/index.html

Serdaroǧlu, M., Yildiz-Turp, G., & Abrodímov, K. (2005). Quality of low-fat meatballs containing Legume flours as extenders. *Meat Science*, *70*(1), 99–105. https://doi.org/10.1016/j.meatsci.2004.12.015

Setchell, K. D. R., & Cole, S. J. (2003). Variations in isoflavone levels in soy foods and soy protein isolates and issues related to isoflavone databases and food labeling. *Journal of Agricultural and Food Chemistry*, *51*(14), 4146–4155. https://doi.org/10.1021/jf026199b

Sethi, S., Tyagi, S. K., & Anurag, R. K. (2016). Plant-based milk alternatives an emerging segment of functional beverages: a review. *Journal of Food Science and Technology*, *53*(9), 3408–3423. https://doi.org/10.1007/s13197-016-2328-3

Sexton, A. (2016). Alternative Proteins and the (Non) Stuff of " Meat ". *Gastronomica*, *16*(3), 66–78. https://doi.org/10.1525/GFC.2016.16.3.66

Sfakianakis, P., & Tzia, C. (2014). Conventional and Innovative Processing of Milk for Yogurt Manufacture; Development of Texture and Flavor: A Review. *Foods*, *3*(1), 176–193. https://doi.org/10.3390/foods3010176

Sha, L., & Xiong, Y. L. (2020, August 1). Plant protein-based alternatives of reconstructed meat: Science, technology, and challenges. *Trends in Food Science and Technology*. Elsevier Ltd. https://doi.org/10.1016/j.tifs.2020.05.022

Shaabani, S., Yarmand, M. S., Kiani, H., & Emam-Djomeh, Z. (2018). The effect of chickpea protein isolate in combination with transglutaminase and xanthan on the physical and rheological characteristics of gluten free muffins and batter based on millet flour. *LWT - Food Science and Technology*. https://doi.org/10.1016/j.lwt.2017.12.023

Shahidi, F. (2016). Oxidative Stability and Shelf Life of Meat and Meat Products. In *Oxidative Stability and Shelf Life of Foods Containing Oils and Fats* (pp. 373–389). Elsevier. https://doi.org/10.1016/B978-1-63067-056-6.00010-0

Shand, P. J., Ya, H., Pietrasik, Z., & Wanasundara, P. K. J. P. D. (2007). Physicochemical and textural properties of heat-induced pea protein isolate gels. *Food Chemistry*, *102*(4), 1119–1130. https://doi.org/10.1016/j.foodchem.2006.06.060

Shang, N., Chaplot, S., & Wu, J. (2018). *Food proteins for health and nutrition*. *Proteins in Food Processing*. https://doi.org/10.1016/B978-0-08-100722-8.00013-9

Shao, S., Duncan, A. M., Yang, R., Marcone, M. F., Rajcan, I., & Tsao, R. (2009). Tracking isoflavones: From soybean to soy flour, soy protein isolates to functional soy bread. *Journal of Functional Foods*, *1*(1), 119–127. https://doi.org/10.1016/j.jff.2008.09.013

Sheetanshu, U. (2016). Meat Substitute Market by 2020 - Future Business Opportunities. Retrieved February 16, 2018, from https://www.alliedmarketresearch.com/meat-substitute-market

Shen, P., Gao, Z., Xu, M., Ohm, J. B., Rao, J., & Chen, B. (2020). The impact of hempseed dehulling on chemical composition, structure properties and aromatic profile of hemp protein isolate. *Food Hydrocolloids*, *106*, 105889. https://doi.org/10.1016/j.foodhyd.2020.105889

Shevkani, K., Singh, N., Kaur, A., & Rana, J. C. (2015). Structural and functional characterization of kidney bean and field pea protein isolates: A comparative study. *Food Hydrocolloids*, *43*, 679–689. https://doi.org/10.1016/j.foodhyd.2014.07.024

Shin, D. J., Kim, W., & Kim, Y. (2013). Physicochemical and sensory properties of soy bread made with germinated, steamed, and roasted soy flour. *Food Chemistry*, *141*(1), 517–523. https://doi.org/10.1016/j.foodchem.2013.03.005

Shurtleff, W., & Aoyagi, A. (2013). *History of Meat Alternatives*.

Shurtleff, W., & Aoyagi, A. (2011). *History of Tempeh and Tempeh Products*. *A Special Report on The History of Traditional Fermented Soyfoods*.

Shurtleff, W., & Aoyagi, A. (2013). *History of tofu and tofu products (965 CE to 2013) : extensively annotated bibliography and sourcebook*. Soyinfo Center.

Shurtleff, W., & Aoyagi, A. (2011). *History of fermented black soybeans (165 B.C. to 2011) : extensively annotated bibliography and sourcebook*. Soyinfo Center. Retrieved from https://books.google.nl/books/about/History\_of\_Fermented\_Black\_Soybeans\_165.html?id=PCyhiOoe49cC&redir\_esc=y

Sievenpiper, J. L., Kendall, C. W. C., Esfahani, A., Wong, J. M. W., Carleton, A. J., Jiang, H. Y., … Jenkins, D. J. A. (2009). Effect of non-oil-seed pulses on glycaemic control: A systematic review and meta-analysis of randomised controlled experimental trials in people with and without diabetes. *Diabetologia*, *52*(8), 1479–1495. https://doi.org/10.1007/s00125-009-1395-7

Singh, P., Kumar, R., Sabapathy, S. N., & Bawa, A. S. (2008). Functional and edible uses of soy protein products. In *Comprehensive Reviews in Food Science and Food Safety* (Vol. 7, pp. 14–28). https://doi.org/10.1111/j.1541-4337.2007.00025.x

Singh, R. P., & Heldman, D. R. (2014). Extrusion Processes for Foods. *Introduction to Food Engineering*, 743–766. https://doi.org/10.1016/B978-0-12-398530-9.00014-0

Singh, S., Gamlath, S., & Wakeling, L. (2007). Nutritional aspects of food extrusion: A review. *International Journal of Food Science and Technology*, *42*(8), 916–929. https://doi.org/10.1111/j.1365-2621.2006.01309.x

Singh, J., Kaur, L., McCarthy, O.J., 2007. Factors influencing the physico- chemical, morphological, thermal and rheological properties of some chem- ically modified starches for food applications—A review. *Food Hydrocolloids 21*, 1–22.

Singh, S., Wakeling, L., & Gamlath, S. (2007). Retention of essential amino acids during extrusion of protein and reducing sugars. *Journal of Agricultural and Food Chemistry*, *55*(21), 8779–8786. https://doi.org/10.1021/jf071769z

Singhal, A., Karaca, A. C., Tyler, R., Nickerson, M., & ashish singhal , asli can karaca, robert tyler and mickael nickeron. (2016). pulse proteins : from processing to structure-function relationships. *Grain Legumes*, 55–78. https://doi.org/10.5772/64020

Slade, P. (2018). If you build it, will they eat it? Consumer preferences for plant-based and cultured meat burgers. *Appetite*, *125*, 428–437. https://doi.org/10.1016/j.appet.2018.02.030

Smale, E., & Broekema, R. (2011). *Nulmeting Peulvruchten Inzicht in milieueffecten en nutritionele aspecten van peulvruchten*. Retrieved from http://www.blonkconsultants.nl/wp-content/uploads/2016/06/nulmeting-peulvruchten\_d1-4.pdf

Smetana, S., Pernutz, C., Toepfl, S., Heinz, V., & Van Campenhout, L. (2019). High-moisture extrusion with insect and soy protein concentrates: Cutting properties of meat analogues under insect content and barrel temperature variations. *Journal of Insects as Food and Feed*, *5*(1), 29–34. https://doi.org/10.3920/JIFF2017.0066

Smetana, S., Ashtari Larki, N., Pernutz, C., Franke, K., Bindrich, U., Toepfl, S., & Heinz, V. (2018). Structure design of insect-based meat analogs with high-moisture extrusion. *Journal of Food Engineering*, *229*, 83–85. https://doi.org/10.1016/j.jfoodeng.2017.06.035

Smetana, S., Mathys, A., Knoch, A., & Heinz, V. (2015). Meat alternatives: life cycle assessment of most known meat substitutes. *The International Journal of Life Cycle Assessment*, *20*(9), 1254–1267. https://doi.org/10.1007/s11367-015-0931-6

Smith, B. M., Bean, S. R., Selling, G., Sessa, D., & Aramouni, F. M. (2017). Effect of Salt and Ethanol Addition on Zein-Starch Dough and Bread Quality. *Journal of Food Science*, *82*(3), 613–621. https://doi.org/10.1111/1750-3841.13637

Sonesson, U., Davis, J., Flysjö, A., Gustavsson, J., & Witthöft, C. (2016). Protein quality as functional unit— a methodological framework for inclusion in life cycle assessment of food. *Journal of Cleaner Production*, *140*, 1–9. https://doi.org/10.1016/j.jclepro.2016.06.115

Sopade, P.A., Hardin, M., Fitzpatrick, P., Desmee, H., Halley, P., 2006. Macromolecular Interactions During Gelatinisation and Retrogradation in Starch-Whey Systems as Studied by Rapid Visco-Analyser. *International Journal of Food Engineering 2*.

Spadaro, J. J. (1979). Uses of defatted and partially defatted peanut flours. *Journal of the American Oil Chemists’ Society*, *56*(3), 474–475. https://doi.org/10.1007/BF02671547

Spencer, M., & Guinard, J. X. (2018). The Flexitarian FlipTM: Testing the Modalities of Flavor as Sensory Strategies to Accomplish the Shift from Meat-Centered to Vegetable-Forward Mixed Dishes. *Journal of Food Science*. https://doi.org/10.1111/1750-3841.13991

Srianta, I., Ristiarini, S., Nugerahani, I., Sen, S. K., Zhang, B. B., Xu, G. R., & Blanc, P. J. (2014). Recent research and development of Monascus fermentation products. *International Food Research Journal*, *21*(1), 1–12. Retrieved from https://www.researchgate.net/publication/272420583\_Recent\_research\_and\_development\_of\_Monascus\_fermentation\_products

Stanojevic, S. P., Barać, M. B., Pešić, M. B., & Vucelic-Radovic, B. V. (2020). Protein composition and textural properties of inulin-enriched tofu produced by hydrothermal process. *LWT*, *126*, 109309. https://doi.org/10.1016/j.lwt.2020.109309

Stauffer, C. E. (1990). Measuring trypsin inhibitor in soy meal: suggested improvements in the standard method. *Cereal Chemistry*, *67*(3), 296–302. Retrieved from http://www.aaccnet.org/publications/cc/backissues/1990/Documents/67\_296.pdf

Steinfeld, H., Gerber, P., Wassenaar, T., Castel, V., Rosales, M., & De Haan, C. (2006). Livestock’s Long Shadow: Environmental Issues and Options. *FAO Ftp://Ftp.Fao.Org/Docrep/Fao/010/A0701E/A0701E00.Pdf*, 1–377. https://doi.org/10.1007/s10666-008-9149-3

Stephens, N., Di Silvio, L., Dunsford, I., Ellis, M., Glencross, A., & Sexton, A. (2018). Bringing cultured meat to market: Technical, socio-political, and regulatory challenges in cellular agriculture. *Trends in Food Science and Technology*, *78*, 155–166. https://doi.org/10.1016/j.tifs.2018.04.010

Stewart, G. F., Schweigert, B. S., Hawthorn, J., & Bauernfeind, J. C. (1981). *Carotenoids as Colorants and Vitamin A Precursors : Technological and Nutritional Applications.* Elsevier Science.

Stoll-Kleemann, S., & Schmidt, U. J. (2017). Reducing meat consumption in developed and transition countries to counter climate change and biodiversity loss: a review of influence factors. *Regional Environmental Change*, *17*(5), 1261–1277. https://doi.org/10.1007/s10113-016-1057-5

Sturtewagen, L., De Soete, W., Dewulf, J., Lachat, C., Lauryssen, S., Heirman, B., … Schaubroeck, T. (2016). Resource use profile and nutritional value assessment of a typical Belgian meal, catered or home cooked, with pork or QuornTM as protein source. *Journal of Cleaner Production*, *112*, 196–204. https://doi.org/10.1016/j.jclepro.2015.09.006

Summo, C., Centomani, I., Paradiso, V. M., Caponio, F., & Pasqualone, A. (2016). The effects of the type of cereal on the chemical and textural properties and on the consumer acceptance of pre-cooked, legume-based burgers. *LWT - Food Science and Technology*, *65*, 290–296. https://doi.org/10.1016/J.LWT.2015.08.009

Sun, X. D., & Arntfield, S. D. (2011). Gelation properties of salt-extracted pea protein isolate induced by heat treatment: Effect of heating and cooling rate. *Food Chemistry*, *124*(3), 1011–1016. https://doi.org/10.1016/j.foodchem.2010.07.063

Sun, X. D., & Arntfield, S. D. (2012). Molecular forces involved in heat-induced pea protein gelation: Effects of various reagents on the rheological properties of salt-extracted pea protein gels. *Food Hydrocolloids*, *28*(2), 325–332. https://doi.org/10.1016/j.foodhyd.2011.12.014

Suzuki, A., Takahashi, T., Tanaka, Y., & Tsuzuku, T. (1997). *EP0879561A1*. Retrieved from https://patents.google.com/patent/EP0879561A1/en

Szejda, K., Urbanovich, T., & Wilks, M. (2020). *Accelerating Consumer Adoption of Plant-Based Meat: An Evidence-Based Guide for Effective Practice February 2020*. Retrieved from https://www.gfi.org/images/uploads/2020/02/NO-HYPERLINKED-REFERENCES-FINAL-COMBINED-accelerating-consumer-adoption-of-plant-based-meat.pdf

Szymanski, C.D., Wurzburg, O.B., 1970. Modified starches for the food industry. *Journal of Agricultural and Food Chemistry 18*, 997–1001.

Tabanelli, G., Pasini, F., Riciputi, Y., Vannini, L., Gozzi, G., Balestra, F., … Montanari, C. (2018). Fermented Nut-Based Vegan Food: Characterization of a Home made Product and Scale-Up to an Industrial Pilot-Scale Production. *Journal of Food Science*, *83*(3), 711–722. https://doi.org/10.1111/1750-3841.14036

Taghdir, M., Mazloomi, S. M., Honar, N., Sepandi, M., Ashourpour, M., & Salehi, M. (2017). Effect of soy flour on nutritional, physicochemical, and sensory characteristics of gluten-free bread. *Food Science and Nutrition*, *5*(3), 439–445. https://doi.org/10.1002/fsn3.411

Takayanagi, M., Harima, H., Iwata, Y., 1963. Viscoelastic Behavior of Poly- mer Blends and Its Comparison with Model Experiments. Technical Report 1. Kyushu University.

Takeda, K., Matsumura, Y., & Shimizu, M. (2001). Emulsifying and Surface Properties of Wheat Gluten under Acidic Conditions. *Journal of Food Science*, *66*(3), 393–399. https://doi.org/10.1111/j.1365-2621.2001.tb16116.x

Tan, S. H., Mailer, R. J., Blanchard, C. L., Agboola, S. O., & Day, L. (2014). Gelling properties of protein fractions and protein isolate extracted from Australian canola meal. *Food Research International*, *62*, 819–828. https://doi.org/10.1016/j.foodres.2014.04.055

Tananuwong, K., Reid, D.S., 2004. DSC and NMR relaxation studies of starch – water interactions during gelatinization. *Carbohydrate Polymers 58,* 345–358.

Tang, C.-H., & Li, X.-R. (2013). Microencapsulation properties of soy protein isolate and storage stability of the correspondingly spray-dried emulsions. *Food Research International*, *52*(1), 419–428. https://doi.org/10.1016/J.FOODRES.2012.09.010

Tangyu, M., Muller, J., Bolten, C. J., & Wittmann, C. (2019). Fermentation of plant-based milk alternatives for improved flavour and nutritional value. *Applied Microbiology and Biotechnology*, *103*(23–24), 9263–9275. https://doi.org/10.1007/s00253-019-10175-9

Tansaz, S., Liverani, L., Vester, L., & Boccaccini, A. R. (2017). Soy protein meets bioactive glass: Electrospun composite fibers for tissue engineering applications. *Materials Letters*, *199*, 143–146. https://doi.org/10.1016/j.matlet.2017.04.042

Tao, J., Davidov-Pardo, G., Burns-Whitmore, B., Cullen, E. M., & Li, Y. O. (2017). Effects of edible insect ingredients on the physicochemical and sensory properties of extruded rice products. *Journal of Insects as Food and Feed*, *3*(4), 263–278. https://doi.org/10.3920/JIFF2017.0030

Tarone, A. G., Fasolin, L. H., Perrechil, F. D. A., Hubinger, M. D., & Cunha, R. L. Da. (2013). Influence of drying conditions on the gelling properties of the 7S and 11S soy protein fractions. *Food and Bioproducts Processing*, *91*(2), 111–120. https://doi.org/10.1016/j.fbp.2012.11.010

Tarrega, A., Rizo, A., Murciano, A., Laguna, L., & Fiszman, S. (2020). Are mixed meat and vegetable protein products good alternatives for reducing meat consumption? A case study with burgers. *Current Research in Food Science*, *3*, 30–40. https://doi.org/10.1016/j.crfs.2020.02.003

Tavano, O. L., Neves, V. A., & da Silva Júnior, S. I. (2016). In vitro versus in vivo protein digestibility techniques for calculating PDCAAS (protein digestibility-corrected amino acid score) applied to chickpea fractions. *Food Research International*, *89*, 756–763. https://doi.org/10.1016/J.FOODRES.2016.10.005

Tavassoli-Kafrani, E., Goli, S. A. H., & Fathi, M. (2017). Fabrication and characterization of electrospun gelatin nanofibers crosslinked with oxidized phenolic compounds. *International Journal of Biological Macromolecules*, *103*, 1062–1068. https://doi.org/10.1016/j.ijbiomac.2017.05.152

Taylor, A. J., & Hort, J. (2007). *Modifying Flavour in Food*. *Modifying Flavour in Food*. https://doi.org/10.1533/9781845693367

Tessari, P., Lante, A., & Mosca, G. (2016). Essential amino acids: Master regulators of nutrition and environmental footprint? *Scientific Reports*, *6*. https://doi.org/10.1038/srep26074

Thadavathi, Y. L. N., Wassén, S., & Kádár, R. (2019). In-line rheological and microstroctural characterization of high moisture content protein vegetable mixtures in single screw extrusion. *Journal of Food Engineering*, *245*, 112–123. https://doi.org/10.1016/J.JFOODENG.2018.10.006

Thakur, S., Singh, N., Kaur, A., & Singh, B. (2017). Effect of Extrusion on Physicochemical Properties, Digestibility, and Phenolic Profiles of Grit Fractions Obtained from Dry Milling of Normal and Waxy Corn. *Journal of Food Science*, *82*(5), 1101–1109. https://doi.org/10.1111/1750-3841.13692

The economist. (2015). Silicon Valley gets a taste for food - Green food. Retrieved February 16, 2018, from https://www.economist.com/news/technology-quarterly/21645497-tech-startups-are-moving-food-business-make-sustainable-versions-meat

The Good Food Institute, 2020. Plant-Based Market Overview. Technical Report.

The guardian. (2017). Can Impossible Foods and its plant burgers take on the meat industry? | Guardian Sustainable Business | The Guardian. Retrieved February 16, 2018, from https://www.theguardian.com/sustainable-business/blog/2017/mar/02/impossible-foods-plant-burger-vegetarian-meat

Thiébaud, M., Dumay, E., & Cheftel, J. C. (1996). Influence of Process Variables on the Characteristics of a High Moisture Fish Soy Protein Mix Texturized by Extrusion Cooking. *LWT - Food Science and Technology*, *29*(5–6), 526–535. https://doi.org/http://dx.doi.org/10.1006/fstl.1996.0080

Thorpe, D. L., Knulsen, S. F., Beeson, W. L., Rajaram, S., & Fraser, G. E. (2008). Effects of meat consumption and vegetarian diet on risk of wrist fracture over 25 years in a cohort of peri-and postmenopausal women. *Public Health Nutrition*, *11*(6), 564–572. https://doi.org/10.1017/S1368980007000808

Tijhuis, M. J., Ezendam, J., Westenbrink, S., van Rossum, C., & Temme, L. (2011). Replacement of meat and dairy by more sustainable protein sources in the Netherlands. Quality of the diet. RIVM Letter Report 350123001/2011. *National Institute for Public Health and the Environment. Ministry of Health, Welfare and Sport*, *350123001*, 61 p. https://doi.org/RIVM Letter Report 350123001/2011

Tilman, D., Balzer, C., Hill, J., & Befort, B. L. (2011). Global food demand and the sustainable intensification of agriculture. *Proceedings of the National Academy of Sciences of the United States of America*, *108*(50), 20260–20264. https://doi.org/10.1073/pnas.1116437108

Tilman, D., & Clark, M. (2014). Global diets link environmental sustainability and human health. *Nature*, *515*(7528), 518–522. https://doi.org/10.1038/nature13959

Time Travelling Milkman. (2020). Fat ingredients for dairy alternatives | Time Travelling Milkman. Retrieved June 15, 2020, from https://www.timetravellingmilkman.com/

Tocci, A. M., & Mascheroni, R. H. (1995). Heat and mass transfer coefficients during the refrigeration, freezing and storage of meats, meat products and analogues. *Journal of Food Engineering*, *26*(2), 147–160. https://doi.org/10.1016/0260-8774(94)00046-C

Toews, R., & Wang, N. (2013). Physicochemical and functional properties of protein concentrates from pulses. *Food Research International*, *52*(2), 445–451. https://doi.org/10.1016/j.foodres.2012.12.009

Tofurky, . Tofurky Chick’n. URL: https://tofurky.com/what-we-make/ chickn/.

Tolstoguzov, V. B. (1988). Creation of fibrous structure by spinneretless spinning. In *Food Structure*. https://doi.org/10.1533/9781845698348.181

Tolstoguzov, V.B., 1988. Concentration and purification of proteins by means of two-phase systems: membraneless osmosis process. *Topics in Catalysis 2,* 195–207.

Tolstoguzov, V.B., 1991. Functional properties of food proteins and role of protein-polysaccharide interaction. *Topics in Catalysis 4*, 429–468.

Tolstoguzov, V. (2006). Texturising by phase separation. *Biotechnology Advances*, *24*(6), 626–628. https://doi.org/10.1016/j.biotechadv.2006.07.001

Tolstoguzov, V. B. (1993). Thermoplastic extrusion-the mechanism of the formation of extrudate structure and properties. *Journal of the American Oil Chemists’ Society*, *70*(4), 417–424. https://doi.org/10.1007/BF02552717

Tomczyńska-Mleko, M., Terpiłowski, K., & Mleko, S. (2015). Physicochemical properties of cellulose/whey protein fibers as a potential material for active ingredients release. *Food Hydrocolloids*, *49*, 232–239. https://doi.org/10.1016/j.foodhyd.2015.03.027

Tomczyńska-Mleko, M., Terpiłowski, K., & Mleko, S. (2015). New product development: Cellulose/egg white protein blend fibers. *Carbohydrate Polymers*, *126*, 168–174. https://doi.org/10.1016/j.carbpol.2015.03.008

Top bv. (2021). TOP’s new fat platform for plant-based foods: structuring vegetable fat. Retrieved February 25, 2021, from https://top-bv.nl/tops-new-fat-platform-for-plant-based-foods-structuring-vegetable-fat/

Tran, D. N., Yang, D. J., & Balkus, K. J. (2011). Fabrication of cellulase protein fibers through concentric electrospinning. *Journal of Molecular Catalysis B: Enzymatic*, *72*(1–2), 1–5. https://doi.org/10.1016/j.molcatb.2011.04.001

Trinci, A. P. J. (1992). Myco-protein: A twenty-year overnight success story. *Mycological Research*, *96*(1), 1–13. https://doi.org/10.1016/S0953-7562(09)80989-1

Trius, A., Sebranek, J. G., Rust, R. E., & Carr, J. M. (1994). Low-Fat Bologna and Beaker Sausage: Effects of Carrageenans and Chloride Salts. *Journal of Food Science*, *59*(5), 941–945. https://doi.org/10.1111/j.1365-2621.1994.tb08163.x

Tuomisto, H. L., Ellis, M. J., & Haastrup, P. (2014). Environmental impacts of cultured meat : alternative production scenarios. *Environmental Science & Technology*, *14044*(October), 6117–6123. https://doi.org/10.1021/es200130u

Tyszler, M., Kramer, G., & Blonk, H. (2014). Comparing apples with oranges: On the functional equivalence of food products for comparative LCAs. *International Journal of Life Cycle Assessment*, *19*(8), 1482–1487. https://doi.org/10.1007/s11367-014-0762-x

Tyszler, M., Kramer, G., & Blonk, H. (2016). Just eating healthier is not enough: studying the environmental impact of different diet scenarios for Dutch women (31–50 years old) by linear programming. *International Journal of Life Cycle Assessment*, *21*(5), 701–709. https://doi.org/10.1007/s11367-015-0981-9

Tziva, M., Negro, S. O., Kalfagianni, A., & Hekkert, M. P. (2019). Understanding the protein transition: The rise of plant-based meat substitutes. *Environmental Innovation and Societal Transitions*. https://doi.org/10.1016/j.eist.2019.09.004

Umadevi Sajjan, S., Raghavendra Rao, M.R., 1987. Effect of hydrocolloids on the rheological properties of wheat starch. *Carbohydrate Polymers 7,* 395–402.

Uruakpa, F. O., & Arntfield, S. D. (2004). Rheological characteristics of commercial canola protein isolate-κ-carrageenan systems. *Food Hydrocolloids*, *18*(3), 419–427. https://doi.org/10.1016/j.foodhyd.2003.07.001

Valle, G.D., Quillien, L., Gueguen, J., 1994. Relationships between processing conditions and starch and protein modifications during extrusion-cooking of pea flour. *Journal of the Science of Food and Agriculture 64*, 509–517.

van der Goot, A. J., & Manski, J. M. (2007). Creation of novel microstructures through processing: Structure formation in (semi-)solid food materials. In *Understanding and Controlling the Microstructure of Complex Foods* (pp. 389–410). https://doi.org/10.1533/9781845693671.3.389

van der Goot, A. J., Peighambardoust, S. H., Akkermans, C., & Van Oosten-Manski, J. M. (2008). Creating novel structures in food materials: The role of well-defined shear flow. *Food Biophysics*, *3*(2), 120–125. https://doi.org/10.1007/s11483-008-9081-8

van der Weele, C., Feindt, P., van der Goot, A. J., van Mierlo, B., & van Boekel, M. (2019). Meat alternatives: an integrative comparison. *Trends in Food Science and Technology*, *88*, 505–512. https://doi.org/10.1016/j.tifs.2019.04.018

van der Weele, C., & Tramper, J. (2014). Cultured meat: Every village its own factory? *Trends in Biotechnology*, *32*(6), 294–296. https://doi.org/10.1016/j.tibtech.2014.04.009

Van Dooren, C., Marinussen, M., Blonk, H., Aiking, H., & Vellinga, P. (2014). Exploring dietary guidelines based on ecological and nutritional values: A comparison of six dietary patterns. *Food Policy*, *44*, 36–46. https://doi.org/10.1016/j.foodpol.2013.11.002

Van Kernebeek, H. R. J., Oosting, S. J., Van Ittersum, M. K., Bikker, P., & De Boer, I. J. M. (2016). Saving land to feed a growing population: consequences for consumption of crop and livestock products. *The International Journal of Life Cycle Assessment*, *21*(5), 677–687. https://doi.org/10.1007/s11367-015-0923-6

Van Mierlo, K., Rohmer, S., & Gerdessen, J. C. (2017). A model for composing meat replacers: Reducing the environmental impact of our food consumption pattern while retaining its nutritional value. *Journal of Cleaner Production*, *165*, 930–950. https://doi.org/10.1016/j.jclepro.2017.07.098

Varadan, R., Solomatin, S., Holz-schietinger, C., Cohn, E., Klapholz-brown, A., Shiu, J. W.-Y., … Fraser, R. (2015). *WO2015153666A1*. Retrieved from https://patents.google.com/patent/WO2015153666A1/en?assignee=IMPOSSIBLE+FOODS+INC.&page=1

Varavinita, S., Shobsngob, S., Bhidyachakorawat, M., & Suphantharika, M. (2000). Production of meat-like flavor. *Science Asia*, *26*, 219–224. Retrieved from http://www.thaiscience.info/Article for ThaiScience/Article/6/Ts-6 production of meat-like flavor.pdf

Varela, P., & Fiszman, S. M. (2011, December). Hydrocolloids in fried foods. A review. *Food Hydrocolloids*. https://doi.org/10.1016/j.foodhyd.2011.01.016

Vargas Zambrano, P., Riera González, G., & Cruz Viera, L. (2019). Quinoa as gelling agent in a mortadella formulation. *International Food Research Journal*, *26*(3), 1069–1077.

Vega-Lugo, A. C., & Lim, L. T. (2008). Electrospinning of soy protein isolate nanofibers. *Journal of Biobased Materials and Bioenergy*, *2*(3), 223–230. https://doi.org/10.1166/jbmb.2008.408

Vegan Zeastar, . Zeastar Zalmon Sashimi. URL: https://www.jumbo.com/ vegan-zeastar-zalmon-sashimi-230g/361898PAK.

Venkatachalam, M., Zelena, M., Cacciola, F., Ceslova, L., Girard-Valenciennes, E., Clerc, P., … Dufossé, L. (2018). Partial characterization of the pigments produced by the marine-derived fungus Talaromyces albobiverticillius 30548. Towards a new fungal red colorant for the food industry. *Journal of Food Composition and Analysis*, *67*, 38–47. https://doi.org/10.1016/j.jfca.2017.12.036

Verbeek, C. J. R., & Van Den Berg, L. E. (2010). Extrusion processing and properties of protein-based thermoplastics. *Macromolecular Materials and Engineering*, *295*(1), 10–21. https://doi.org/10.1002/mame.200900167

Verma, A. K., Rajkumar, V., & Kumar, S. (2019). Effect of amaranth and quinoa seed flour on rheological and physicochemical properties of goat meat nuggets. *Journal of Food Science and Technology*, *56*(11), 5027–5035. https://doi.org/10.1007/s13197-019-03975-4

Vernon-Parry, K. D. (2000). Scanning electron microscopy: an introduction. *III-Vs Review*, *13*(4), 40–44. https://doi.org/10.1016/S0961-1290(00)80006-X

Vieux, F., Darmon, N., Touazi, D., & Soler, L. G. (2012). Greenhouse gas emissions of self-selected individual diets in France: Changing the diet structure or consuming less? *Ecological Economics*, *75*, 91–101. https://doi.org/10.1016/j.ecolecon.2012.01.003

Vivera, a. Vivera Balletjes. URL: https://vivera.com/nl/product/ vivera-plant-balletjes/.

Vivera, b. Vivera Kaasschnitzel. URL: https://vivera.com/nl/product/ vivera-vega-kaasschnitzel/.

Vivera, c. Vivera Krokante Schnitzel. URL: https://vivera.com/nl/ product/vivera-plant-krokante-schnitzel/.

Vivera, d. Vivera Steak. URL: https://vivera.com/nl/product/ vivera-plant-steak/.

Vivera, e. Vivera Wokreepjes. URL: https://vivera.com/nl/product/ vivera-vega-wokreepjes-gekruid/.

Vogelsang-O’Dwyer, M., Petersen, I. L., Joehnke, M. S., Sørensen, J. C., Bez, J., Detzel, A., … Zannini, E. (2020). Comparison of Faba bean protein ingredients produced using dry fractionation and isoelectric precipitation: Techno-functional, nutritional and environmental performance. *Foods*, *9*(3). https://doi.org/10.3390/foods9030322

Vrljic, M., Solomatin, S., Fraser, R., O’reilly Brown, P., Karr, J., Holz-Schietinger, C., … Varadan, R. (2015). *US20150305390A1*. Retrieved from https://patents.google.com/patent/US20150305390A1/en?assignee=IMPOSSIBLE+FOODS+INC.

Walsh, M.K., Nam, S.H., Pettee, B.C., Carpenter, C.E., 2008. Characteri- zation of Texturized Whey Protein Produced at Varying Protein Concen- trations. *Journal of Food Processing and Preservation 32*, 503–516.

Walstra, P., Walstra, P., Wouters, J. T. M., & Geurts, T. J. (2005). *Dairy Science and Technology*. *Dairy Science and Technology*. https://doi.org/10.1201/9781420028010

Wanezaki, S., Tachibana, N., Nagata, M., Saito, S., Nagao, K., Yanagita, T., & Kohno, M. (2015). Soy β-conglycinin improves obesity-induced metabolic abnormalities in a rat model of nonalcoholic fatty liver disease. *Obesity Research and Clinical Practice*, *9*(2), 168–174. https://doi.org/10.1016/j.orcp.2014.03.005

Wang, C., Ma, Q., Pagadala, S., Sherrard, M. S., & Krishnan, P. G. (1998). Changes of isoflavones during processing of soy protein isolates. *Journal of the American Oil Chemists’ Society*, *75*(3), 337–341. https://doi.org/10.1007/s11746-998-0050-7

Wang, F., Liu, N., Li, K., Ma, T., Ren, F., & Luo, J. (2019). Effects of enzyme-modified soybean beverage on the composition, yield, functionality and microstructure of Cheddar cheese-like products. *LWT*, *116*, 108498. https://doi.org/10.1016/j.lwt.2019.108498

Wang, F., Zhang, Y., Xu, L., & Ma, H. (2020). An efficient ultrasound-assisted extraction method of pea protein and its effect on protein functional properties and biological activities. *LWT*, *127*. https://doi.org/10.1016/j.lwt.2020.109348

Wang, H. H., & Sun, D. W. (2002). Melting characteristics of cheese: Analysis of effects of cooking conditions using computer vision technology. *Journal of Food Engineering*, *51*(4), 305–310. https://doi.org/10.1016/S0260-8774(01)00072-3

Wang, H., Wu, J., Luo, S., Zou, P., Guo, B., Liu, Y., … Liu, C. (2020). Improving instant properties of kudzu powder by extrusion treatment and its related mechanism. *Food Hydrocolloids*, *101*, 105475. https://doi.org/10.1016/j.foodhyd.2019.105475

Wang, K., Li, C., Wang, B., Yang, W., Luo, S., Zhao, Y., … Zheng, Z. (2017). Formation of macromolecules in wheat gluten/starch mixtures during twin-screw extrusion: Effect of different additives. *Journal of the Science of Food and Agriculture*, *97*(April), 5131–5138. https://doi.org/10.1002/jsfa.8392

Wang, K., & Arntfield, S. D. (2017). Effect of protein-flavour binding on flavour delivery and protein functional properties: A special emphasis on plant-based proteins. *Flavour and Fragrance Journal*, *32*(2), 92–101. https://doi.org/10.1002/ffj.3365

Wang, L., Guo, H., Liu, X., Jiang, G., Li, C., Li, X., & Li, Y. (2019). Roles of Lentinula edodes as the pork lean meat replacer in production of the sausage. *Meat Science*, *156*, 44–51. https://doi.org/10.1016/j.meatsci.2019.05.016

Wang, R., Jin, X., Su, S., Lu, Y., & Guo, S. (2019). Soymilk gelation: The determinant roles of incubation time and gelation rate. *Food Hydrocolloids*, *97*, 105230. https://doi.org/10.1016/j.foodhyd.2019.105230

Wang, S., Yang, J., Shao, G., Liu, J., Wang, J., Yang, L., … Jiang, L. (2020). pH-induced conformational changes and interfacial dilatational rheology of soy protein isolated/soy hull polysaccharide complex and its effects on emulsion stabilization. *Food Hydrocolloids*, *109*, 106075. https://doi.org/10.1016/j.foodhyd.2020.106075

Wang, Y., Liu, J., Wei, F., Liu, X., Yi, C., & Zhang, Y. (2019). Improvement of the nutritional value, sensory properties and bioavailability of rapeseed meal fermented with mixed microorganisms. *LWT*. https://doi.org/10.1016/j.lwt.2019.06.005

Wang, Y., Guldiken, B., Tulbek, M., House, J. D., & Nickerson, M. (2020). Impact of alcohol washing on the flavour profiles, functionality and protein quality of air classified pea protein enriched flour. *Food Research International*, *132*, 109085. https://doi.org/10.1016/j.foodres.2020.109085

Wang, Z., Tian, B., Boom, R., & van der Goot, A. J. (2019). Air bubbles in calcium caseinate fibrous material enhances anisotropy. *Food Hydrocolloids*, *87*, 497–505. https://doi.org/10.1016/j.foodhyd.2018.08.037

Wang, Z., Tian, B., Boom, R., & van der Goot, A. J. (2019). Understanding the role of air and protein phase on mechanical anisotropy of calcium caseinate fibers. *Food Research International*, *121*, 862–869. https://doi.org/10.1016/j.foodres.2019.01.009

Warnakulasuriya, S. N., & Nickerson, M. T. (2018). Review on plant protein-polysaccharide complex coacervation, and the functionality and applicability of formed complexes. *Journal of the Science of Food and Agriculture*, *98*(15), 5559–5571. https://doi.org/10.1002/jsfa.9228

Weiss, J., Salminen, H., Moll, P., & Schmitt, C. (2019). Use of molecular interactions and mesoscopic scale transitions to modulate protein-polysaccharide structures. *Advances in Colloid and Interface Science*, *271*, 101987. https://doi.org/10.1016/J.CIS.2019.07.008

Wenger, L. V. G., Clark, D. S., & Hauck, B. W. (1977). US4118164 - High-output apparatus for producing dense , uniformly layered meat analogue product.

Werkhoff, P., Brüning, J., Emberger, R., Güntert, M., Köpsel, M., Kuhn, W., & Surburg, H. (1990). Isolation and Characterization of Volatile Sulfur-Containing Meat Flavor Components in Model Systems. *Journal of Agricultural and Food Chemistry*, *38*(3), 777–791. https://doi.org/10.1021/jf00093a041

Westerterp-Plantenga, M. S., Lemmens, S. G., & Westerterp, K. R. (2012). Dietary protein – its role in satiety, energetics, weight loss and health. *British Journal of Nutrition*, *108*(S2), S105–S112. https://doi.org/10.1017/S0007114512002589

Westhoek, H., Lesschen, J. P., Rood, T., Wagner, S., De Marco, A., Murphy-Bokern, D., … Oenema, O. (2014). Food choices, health and environment: Effects of cutting Europe’s meat and dairy intake. *Global Environmental Change*, *26*(1), 196–205. https://doi.org/10.1016/j.gloenvcha.2014.02.004

Wi, G., Bae, J., Kim, H., Cho, Y., & Choi, M.-J. (2020). Evaluation of the Physicochemical and Structural Properties and the Sensory Characteristics of Meat Analogues Prepared with Various Non-Animal Based Liquid Additives. *Foods*, *9*(4), 461. https://doi.org/10.3390/foods9040461

Wiebe, M. (2002). Myco-protein from fusarium venenatum: A well-established product for human consumption. *Applied Microbiology and Biotechnology*, *58*(4), 421–427. https://doi.org/10.1007/s00253-002-0931-x

Wiebe, M. G. (2004). QuornTM myco-protein - Overview of a successful fungal product. *Mycologist*, *18*(1), 17–20. https://doi.org/10.1017/S0269915X04001089

Wieser, H. (2007). Chemistry of gluten proteins. *Food Microbiology*, *24*(2), 115–119. https://doi.org/10.1016/j.fm.2006.07.004

Wild, F. (2016). *Manufacture of Meat Analogues Through High Moisture Extrusion*. *Reference Module in Food Science*. Elsevier. https://doi.org/http://doi.org/10.1016/B978-0-08-100596-5.03281-9

Wild, F., Czerny, M., Janssen, A. M., Kole, A. P. W., Zunabovic, M., & Domig, K. J. (2014). The evolution of a plant-based alternative to meat: From niche markets to widely accepted meat alternatives. *Agro Food Industry Hi-Tech*, *25*(1), 45–49.

Wilkinson, J. M. (2011). Re-defining efficiency of feed use by livestock. *Animal*, *5*(7), 1014–1022. https://doi.org/10.1017/S175173111100005X

Wilska-Jeszka, J. (2006). Food colorants. In *Chemical and Functional Properties of Food Components, Third Edition* (pp. 245–274). CRC Press. https://doi.org/10.1016/b978-0-12-809434-1.00008-6

Wilson, N., Nghiem, N., Ni Mhurchu, C., Eyles, H., Baker, M. G., & Blakely, T. (2013). Foods and Dietary Patterns That Are Healthy, Low-Cost, and Environmentally Sustainable: A Case Study of Optimization Modeling for New Zealand. *PLoS ONE*, *8*(3). https://doi.org/10.1371/journal.pone.0059648

Wittek, P., Zeiler, N., Karbstein, H. P., & Emin, M. A. (2021). High Moisture Extrusion of Soy Protein: Investigations on the Formation of Anisotropic Product Structure. *Foods*, *10*(1), 102. https://doi.org/10.3390/foods10010102

Woerdeman, D. L., Shenoy, S., & Breger, D. (2007). Role of chain entanglements in the electrospinning of wheat protein-poly(vinyl alcohol) blends. *Journal of Adhesion*, *83*(8), 785–798. https://doi.org/10.1080/00218460701588398

Woerdeman, D. L., Ye, P., Shenoy, S., Parnas, R. S., Wnek, G. E., & Trofimova, O. (2005). Electrospun fibers from wheat protein: Investigation of the interplay between molecular structure and the fluid dynamics of the electrospinning process. *Biomacromolecules*, *6*(2), 707–712. https://doi.org/10.1021/bm0494545

Wolfe, R. R., Rutherfurd, S. M., Kim, I. Y., & Moughan, P. J. (2016). Protein quality as determined by the Digestible Indispensable Amino Acid Score: Evaluation of factors underlying the calculation. *Nutrition Reviews*, *74*(9), 584–599. https://doi.org/10.1093/nutrit/nuw022

Wolz, M., Kastenhuber, S., & Kulozik, U. (2016). High moisture extrusion for microparticulation of whey proteins -Influence of process parameters. *Journal of Food Engineering*, *185*, 56–61. https://doi.org/10.1016/j.jfoodeng.2016.04.002

Wood, A. T., Everett, D., Budhwani, K. I., Dickinson, B., & Thomas, V. (2016). Wet-laid soy fiber reinforced hydrogel scaffold: Fabrication, mechano-morphological and cell studies. *Materials Science and Engineering C*, *63*, 308–316. https://doi.org/10.1016/j.msec.2016.02.078

Worldometer. (2020). World Population Clock: 7.8 Billion People (2020) - Worldometer. Retrieved June 15, 2020, from https://www.worldometers.info/world-population/

Wouters, A. G. B., Rombouts, I., Fierens, E., Brijs, K., & Delcour, J. A. (2016). Relevance of the Functional Properties of Enzymatic Plant Protein Hydrolysates in Food Systems. *Comprehensive Reviews in Food Science and Food Safety*, *15*(4), 786–800. https://doi.org/10.1111/1541-4337.12209

Wu, C., Hua, Y., Chen, Y., Kong, X., & Zhang, C. (2017). Effect of temperature, ionic strength and 11S ratio on the rheological properties of heat-induced soy protein gels in relation to network proteins content and aggregates size. *Food Hydrocolloids*, *66*, 389–395. https://doi.org/10.1016/j.foodhyd.2016.12.007

Wu, C., Navicha, W. B., Hua, Y., Chen, Y., Kong, X., & Zhang, C. (2018). Effects of removal of non-network protein on the rheological properties of heat-induced soy protein gels. *LWT*, *95*, 193–199. https://doi.org/10.1016/j.lwt.2018.04.077

Wu, Y. F., Baek, H. H., Gerard, P. D., & Cadwallader, K. R. (2000). Development of a meat-like process flavoring from soybean-based enzyme-hydrolyzed vegetable protein (E-HVP). *Journal of Food Science*. https://doi.org/10.1111/j.1365-2621.2000.tb10269.x

Wu, Y. F. G., & Cadwallader, K. R. (2002). Characterization of the aroma of a meatlike process flavoring from soybean-based enzyme-hydrolyzed vegetable protein. *Journal of Agricultural and Food Chemistry*, *50*(10), 2900–2907. https://doi.org/10.1021/jf0114076

Wüstenberg, T. (2014). *Cellulose and Cellulose Derivatives in the Food Industry*. *Cellulose and Cellulose Derivatives in the Food Industry*. https://doi.org/10.1002/9783527682935

Xiao, C. W. (2008). Health Effects of Soy Protein and Isoflavones in Humans. *The Journal of Nutrition*, *138*(6), 1244S-1249S. https://doi.org/138/6S-I/1244S [pii]

Xu, H., Cai, S., Sellers, A., & Yang, Y. (2014). Electrospun ultrafine fibrous wheat glutenin scaffolds with three-dimensionally random organization and water stability for soft tissue engineering. *Journal of Biotechnology*, *184*, 179–186. https://doi.org/10.1016/j.jbiotec.2014.05.011

Xu, X., Jiang, L., Zhou, Z., Wu, X., & Wang, Y. (2012). Preparation and properties of electrospun soy protein isolate/polyethylene oxide nanofiber membranes. *ACS Applied Materials and Interfaces*, *4*(8), 4331–4337. https://doi.org/10.1021/am300991e

Yadav, P., Ahlawat, S. S., Soni, N., Rani, M., Bishnoi, S., & Jairath, G. (2015). Studies on Development of Meat Analogue Rolls Using Various Plant Sources. *International Journal of Research in Agricultural Sciences*, *2*(2), 2348–3997.

Yang, C., Wang, Y., & Chen, L. (2017). Fabrication, characterization and controlled release properties of oat protein gels with percolating structure induced by cold gelation. *Food Hydrocolloids*, *62*, 21–34. https://doi.org/10.1016/J.FOODHYD.2016.07.023

Yang, C., Wang, Y., Vasanthan, T., & Chen, L. (2014). Impacts of pH and heating temperature on formation mechanisms and properties of thermally induced canola protein gels. *Food Hydrocolloids*, *40*, 225–236. https://doi.org/10.1016/j.foodhyd.2014.03.011

Yang, N., Feng, Y., Su, C., Wang, Q., Zhang, Y., Wei, Y., … Fang, Y. (2020). Structure and tribology of κ-carrageenan gels filled with natural oil bodies. *Food Hydrocolloids*. https://doi.org/10.1016/j.foodhyd.2020.105945

Yang, Y., & Xu, S. (2007). Roles of components of rice-based fat substitute in gelation. *Food Research International*, *40*(9), 1155–1160. https://doi.org/10.1016/J.FOODRES.2007.06.010

Yano, H. (2019, December 1). Recent practical researches in the development of gluten-free breads. *Npj Science of Food*. Nature Research. https://doi.org/10.1038/s41538-019-0040-1

Yao, G., Liu, K. S., & Hsieh, F. (2004). A New Method for Characterizing Fiber Formation in Meat Analogs during High-moisture Extrusion. *Journal of Food Science*, *69*(7), 303–307. https://doi.org/10.1111/j.1365-2621.2004.tb13634.x

Yi, L., Lakemond, C. M. M., Sagis, L. M. C., Eisner-Schadler, V., Huis, A. Van, & Boekel, M. A. J. S. V. (2013). Extraction and characterisation of protein fractions from five insect species. *Food Chemistry*, *141*(4), 3341–3348. https://doi.org/10.1016/j.foodchem.2013.05.115

Yoo, S. H., & Chang, Y. H. (2016). Volatile compound, physicochemical, and antioxidant properties of beany flavor-removed soy protein isolate hydrolyzates obtained from combined high temperature pre-treatment and enzymatic hydrolysis. *Preventive Nutrition and Food Science*, *21*(4), 338–347. https://doi.org/10.3746/pnf.2016.21.4.338

Yorks, T. P. (1978). Energy Use in Soy-bean Meat Analog Manufacture : a Comparison with Beef. *J Sci Food Agric*, *29*, 895–902.

Yoshie-Stark, Y., Wada, Y., & Wäsche, A. (2008). Chemical composition, functional properties, and bioactivities of rapeseed protein isolates. *Food Chemistry*, *107*(1), 32–39. https://doi.org/10.1016/j.foodchem.2007.07.061

Young, V. R. (1991). Soy protein in relation to human protein and amino acid nutrition. *Journal of the American Dietetic Association*, *91*(7), 828–835. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/2071798

Yu, J., Ahmedna, M., & Goktepe, I. (2007). Peanut protein concentrate: Production and functional properties as affected by processing. *Food Chemistry*, *103*(1), 121–129. https://doi.org/10.1016/j.foodchem.2006.08.012

Yuliarti, O., Kiat Kovis, T. J., & Yi, N. J. (2020). Structuring the meat analogue by using plant-based derived composites. *Journal of Food Engineering*, *288*, 110138. https://doi.org/10.1016/j.jfoodeng.2020.110138

Yum, H. W., Seo, J. K., Jeong, J. Y., Kim, G. D., Rahman, M. S., & Yang, H. S. (2018). The quality improvement of emulsion-type pork sausages formulated by substituting pork back fat with rice bran oil. *Korean Journal for Food Science of Animal Resources*, *38*(1), 123–134. https://doi.org/10.5851/kosfa.2018.38.1.123

Yves veggie Cuisine. (2020). Yves veggie cuisine - Bologna. Retrieved October 23, 2020, from http://yvesveggie.com/en/products/deli-slices/bologna/

Zahari, I., Ferawati, F., Helstad, A., Ahlström, C., Östbring, K., Rayner, M., & Purhagen, J. K. (2020). Development of high-moisture meat analogues with hemp and soy protein using extrusion cooking. *Foods*, *9*(6), 772. https://doi.org/10.3390/foods9060772

Zalm, E. E. J. va. der, Goot, A. J. va. der, & Boom, R. M. (2009). Influence of process conditions on the separation behaviour of starch-gluten systems. *Journal of Food Engineering*, *95*(4), 572–578. https://doi.org/10.1016/j.jfoodeng.2009.06.038

Zayas, J. F., & Zayas, J. F. (1997). Water Holding Capacity of Proteins. In *Functionality of Proteins in Food* (pp. 76–133). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-59116-7\_3

Zhan, F., Shi, M., Wang, Y., Li, B., & Chen, Y. (2019). Effect of freeze-drying on interaction and functional properties of pea protein isolate/soy soluble polysaccharides complexes. *Journal of Molecular Liquids*, *285*, 658–667. https://doi.org/10.1016/j.molliq.2019.04.126

Zhang, B., Liu, G., Ying, D., Sanguansri, L., & Augustin, M. A. (2017). Effect of extrusion conditions on the physico-chemical properties and in vitro protein digestibility of canola meal. *Food Research International*, *100*, 658–664. https://doi.org/10.1016/J.FOODRES.2017.07.060

Zhang, J., Liu, L., Jiang, Y., Faisal, S., & Wang, Q. (2020). A new insight into the high-moisture extrusion process of peanut protein: From the aspect of the orders and amount of energy input. *Journal of Food Engineering*, *264*, 109668. https://doi.org/10.1016/J.JFOODENG.2019.07.015

Zhang, J., Liu, L., Jiang, Y., Shah, F., Xu, Y., & Wang, Q. (2020). High-moisture extrusion of peanut protein-/carrageenan/sodium alginate/wheat starch mixtures: Effect of different exogenous polysaccharides on the process forming a fibrous structure. *Food Hydrocolloids*, *99*, 105311. https://doi.org/10.1016/j.foodhyd.2019.105311

Zhang, J., Liu, L., Liu, H., Yoon, A., Rizvi, S. S. H., & Wang, Q. (2019, November 13). Changes in conformation and quality of vegetable protein during texturization process by extrusion. *Critical Reviews in Food Science and Nutrition*. Taylor and Francis Inc. https://doi.org/10.1080/10408398.2018.1487383

Zhang, J., Liu, L., Jiang, Y., Shah, F., Xu, Y., Wang, Q., 2020. High- moisture extrusion of peanut protein-/carrageenan/sodium alginate/wheat starch mixtures: Effect of different exogenous polysaccharides on the process forming a fibrous structure. *Food Hydrocolloids 99*, 105311.

Zhang, L., Barbut, S., 2005. Effects of regular and modified starches on cooked pale, soft, and exudative; normal; and dry, firm, and dark breast meat batters. *Poultry Science 84*, 789–796.

Zhang, T., Dou, W., Zhang, X., Zhao, Y., Zhang, Y., Jiang, L., & Sui, X. (2021). The development history and recent updates on soy protein-based meat alternatives. *Trends in Food Science & Technology*. https://doi.org/10.1016/j.tifs.2021.01.060

Zhang, W., Li, S., Zhang, B., Drago, S., Zhang, J., 2016. Relationships be- tween the gelatinization of starches and the textural properties of extruded texturized soybean protein-starch systems. *Journal of Food Engineering 174*, 29–36.

Zhang, X. M., Zhang, Y. B., & Chi, M. H. (2016). Soy Protein Supplementation Reduces Clinical Indices in Type 2 Diabetes and Metabolic Syndrome. *Yonsei Med J*, *57*(3), 681–689. https://doi.org/10.3349/ymj.2016.57.3.681

Zhang, Y., Yang, R., Zhang, W., Hu, Z., & Zhao, W. (2017). Structural characterization and physicochemical properties of protein extracted from soybean meal assisted by steam flash-explosion with dilute acid soaking. *Food Chemistry*, *219*, 48–53. https://doi.org/10.1016/j.foodchem.2016.09.079

Zhang, Y., Yang, R., Zhao, W., Hua, X., & Zhang, W. (2014). Physicochemical and emulsifying properties of protein extracted from soybean meal assisted by steam flash-explosion. *Innovative Food Science and Emerging Technologies*, *23*, 131–137. https://doi.org/10.1016/j.ifset.2014.03.009

Zhang, Y., Chakraborty, P., & Villagran, F. V. (2020). GB201707641D0 - Flavor Modifiers For Meat Analog Products.

Zhao, H., Chen, J., Hemar, Y., & Cui, B. (2020). Improvement of the rheological and textural properties of calcium sulfate-induced soy protein isolate gels by the incorporation of different polysaccharides. *Food Chemistry*, *310*, 125983. https://doi.org/10.1016/j.foodchem.2019.125983

Zhao, H., Yu, B., Hemar, Y., Chen, J., & Cui, B. (2020). Improvement of calcium sulfate-induced gelation of soy protein via incorporation of soy oil before and after thermal denaturation. *LWT*, *117*, 108690. https://doi.org/10.1016/j.lwt.2019.108690

Zheng, L., Teng, F., Wang, N., Zhang, X. N., Regenstein, J. M., Liu, J. S., … Wang, Z. J. (2019). Addition of salt ions before spraying improves heatand cold-induced gel properties of Soy Protein Isolate (SPI). *Applied Sciences (Switzerland)*. https://doi.org/10.3390/app9061076

Zheng, L., Wang, Z. J., Kong, Y., Ma, Z. L., Wu, C. L., Regenstein, J. M., … Li, Y. (2021). Different commercial soy protein isolates and the characteristics of Chiba tofu. *Food Hydrocolloids*, *110*, 106115. https://doi.org/10.1016/j.foodhyd.2020.106115

Zheng, T., Li, X., Taha, A., Wei, Y., Hu, T., Fatamorgana, P. B., … Hu, H. (2019). Effect of high intensity ultrasound on the structure and physicochemical properties of soy protein isolates produced by different denaturation methods. *Food Hydrocolloids*, *97*, 105216. https://doi.org/10.1016/j.foodhyd.2019.105216

Zhong, Z., & Xiong, Y. L. (2020). Thermosonication-induced structural changes and solution properties of mung bean protein. *Ultrasonics Sonochemistry*, *62*, 104908. https://doi.org/10.1016/j.ultsonch.2019.104908

Zhou, L., Yang, Y., Ren, H., Zhao, Y., Wang, Z., Wu, F., & Xiao, Z. (2016). Structural changes in rice bran protein upon different extrusion temperatures: A raman spectroscopy study. *Journal of Chemistry*, *2016*. https://doi.org/10.1155/2016/6898715

Zhou, Y., Li, X., Hua, Y., Kong, X., Zhang, C., Chen, Y., & Wang, S. (2019). The absence of lipoxygenase and 7S globulin of soybeans and heating temperatures on the properties of soymilks and soy yogurts. *LWT*, *115*, 108431. https://doi.org/10.1016/j.lwt.2019.108431

Zhu, F. (2020). Dietary fiber polysaccharides of amaranth, buckwheat and quinoa grains: A review of chemical structure, biological functions and food uses. *Carbohydrate Polymers*, *248*, 116819. https://doi.org/10.1016/j.carbpol.2020.116819

Zhu, L., Yin, P., Xie, T., Liu, X., Yang, L., Wang, S., … Liu, H. (2020). Interaction between soyasaponin and soy β-conglycinin or glycinin: Air-water interfacial behavior and foaming property of their mixtures. *Colloids and Surfaces B: Biointerfaces*, *186*, 110707. https://doi.org/10.1016/j.colsurfb.2019.110707

Zhu, X., & van Ierland, E. C. (2004). Protein Chains and Environmental Pressures: A Comparison of Pork and Novel Protein Foods. *Environmental Sciences*, *1*(3), 254–276. https://doi.org/10.1080/15693430412331291652

Zijlstra, N., Mars, M., Stafleu, A., & de Graaf, C. (2010). The effect of texture differences on satiation in 3 pairs of solid foods. *Appetite*, *55*(3), 490–497. https://doi.org/10.1016/j.appet.2010.08.014

Zilic, S., Bozovic, I., & Sukalovic, V. H. T. (2012). Thermal inactivation of soybean bioactive proteins. *International Journal of Food Engineering*, *8*(4). https://doi.org/10.1515/1556-3758.2521

Zisopoulos, F. K., Overmars, L., & van der Goot, A. J. (2017). A conceptual exergy-based framework for assessing, monitoring, and designing a resource efficient agri-food sector. *Journal of Cleaner Production*. https://doi.org/10.1016/j.jclepro.2017.04.160

Zulkurnain, M., Goh, M. H., Karim, A. A., & Liong, M. T. (2008). Development of a soy-based cream cheese. *Journal of Texture Studies*, *39*(6), 635–654. https://doi.org/10.1111/j.1745-4603.2008.00163.x