

Marilyn D Rayner

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|-------------------|-------------------------|----------------|-----------------|
| 71 papers | 2,488 citations | 27 h-index | 49 g-index |
| 72 ext. papers | 2,913 ext. citations | 5.9 avg, IF | 5.46 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 71 | Biomass-based particles for the formulation of Pickering type emulsions in food and topical applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 458, 48-62 | 5.1 | 247 |
| 70 | Characterization of starch Pickering emulsions for potential applications in topical formulations. <i>International Journal of Pharmaceutics</i> , 2012 , 428, 1-7 | 6.5 | 181 |
| 69 | Quinoa starch granules: a candidate for stabilising food-grade Pickering emulsions. <i>Journal of the Science of Food and Agriculture</i> , 2012 , 92, 1841-7 | 4.3 | 174 |
| 68 | Starch particles for food based Pickering emulsions. <i>Procedia Food Science</i> , 2011 , 1, 95-103 | | 138 |
| 67 | Emulsion stabilizing capacity of intact starch granules modified by heat treatment or octenyl succinic anhydride. <i>Food Science and Nutrition</i> , 2013 , 1, 157-71 | 3.2 | 133 |
| 66 | Quinoa starch granules as stabilizing particles for production of Pickering emulsions. <i>Faraday Discussions</i> , 2012 , 158, 139-55; discussion 239-66 | 3.6 | 111 |
| 65 | Storage and digestion stability of encapsulated curcumin in emulsions based on starch granule Pickering stabilization. <i>Food Hydrocolloids</i> , 2017 , 63, 309-320 | 10.6 | 105 |
| 64 | Preparation and encapsulation properties of double Pickering emulsions stabilized by quinoa starch granules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 423, 147-153 | 5.1 | 93 |
| 63 | Chemical composition, digestibility and emulsification properties of octenyl succinic esters of various starches. <i>Food Research International</i> , 2015 , 75, 41-49 | 7 | 86 |
| 62 | Barrier properties of heat treated starch Pickering emulsions. <i>Journal of Colloid and Interface Science</i> , 2015 , 450, 182-188 | 9.3 | 74 |
| 61 | Freezing and freeze-drying of Pickering emulsions stabilized by starch granules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 512-520 | 5.1 | 71 |
| 60 | Fabrication of encapsulated oil powders from starch granule stabilized W/O/W Pickering emulsions by freeze-drying. <i>Food Hydrocolloids</i> , 2015 , 51, 261-271 | 10.6 | 68 |
| 59 | Using the Surface Evolver to model droplet formation processes in membrane emulsification. <i>Journal of Colloid and Interface Science</i> , 2004 , 279, 175-85 | 9.3 | 63 |
| 58 | Production of starch nanoparticles by dissolution and non-solvent precipitation for use in food-grade Pickering emulsions. <i>Carbohydrate Polymers</i> , 2017 , 157, 558-566 | 10.3 | 58 |
| 57 | O/W emulsions stabilized by OSA-modified starch granules versus non-ionic surfactant: Stability, rheological behaviour and resveratrol encapsulation. <i>Journal of Food Engineering</i> , 2018 , 222, 207-217 | 6 | 58 |
| 56 | Preparation and Characterization of Starch Particles for Use in Pickering Emulsions. <i>Cereal Chemistry</i> , 2016 , 93, 116-124 | 2.4 | 54 |
| 55 | The impact of mass transfer and interfacial expansion rate on droplet size in membrane emulsification processes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 266, 1-17 | 5.1 | 47 |

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| 54 | Thylakoids promote release of the satiety hormone cholecystokinin while reducing insulin in healthy humans. <i>Scandinavian Journal of Gastroenterology</i> , 2009 , 44, 712-9 | 2.4 | 46 |
| 53 | Development of High-Moisture Meat Analogues with Hemp and Soy Protein Using Extrusion Cooking. <i>Foods</i> , 2020 , 9, | 4.9 | 44 |
| 52 | Current status on novel ways for stabilizing food dispersions by oleosins, particles and microgels. <i>Current Opinion in Food Science</i> , 2015 , 3, 94-109 | 9.8 | 42 |
| 51 | Pickering emulsifiers based on hydrophobically modified small granular starches - Part I: Manufacturing and physico-chemical characterization. <i>Carbohydrate Polymers</i> , 2017 , 175, 473-483 | 10.3 | 42 |
| 50 | Combined emulsifying capacity of polysaccharide particles of different size and shape. <i>Carbohydrate Polymers</i> , 2017 , 169, 127-138 | 10.3 | 33 |
| 49 | Comparative Emulsifying Properties of Octenyl Succinic Anhydride (OSA)-Modified Starch: Granular Form vs Dissolved State. <i>PLoS ONE</i> , 2016 , 11, e0160140 | 3.7 | 32 |
| 48 | Pickering emulsifiers based on hydrophobically modified small granular starches Part II - Effects of modification on emulsifying capacity. <i>Carbohydrate Polymers</i> , 2018 , 201, 416-424 | 10.3 | 31 |
| 47 | Chemical methods and techniques to monitor early Maillard reaction in milk products; A review. <i>Critical Reviews in Food Science and Nutrition</i> , 2019 , 59, 1829-1839 | 11.5 | 28 |
| 46 | Membrane emulsification modelling: how can we get from characterisation to design?. <i>Desalination</i> , 2002 , 145, 165-172 | 10.3 | 27 |
| 45 | The Effects of Oil Extraction Methods on Recovery Yield and Emulsifying Properties of Proteins from Rapeseed Meal and Press Cake. <i>Foods</i> , 2019 , 9, | 4.9 | 27 |
| 44 | The influence of emulsion parameters on physical stability and rheological properties of Pickering emulsions stabilized by hordein nanoparticles. <i>Food Hydrocolloids</i> , 2020 , 101, 105520 | 10.6 | 24 |
| 43 | The use of micro- and nanoparticles in the stabilisation of pickering-type emulsions for topical delivery. <i>Current Pharmaceutical Biotechnology</i> , 2013 , 14, 1222-34 | 2.6 | 22 |
| 42 | Chloroplast thylakoids reduce glucose uptake and decrease intestinal macromolecular permeability. <i>British Journal of Nutrition</i> , 2011 , 106, 836-44 | 3.6 | 21 |
| 41 | Comparison of Three Methods to Determine the Degree of Substitution of Quinoa and Rice Starch Acetates, Propionates, and Butyrates: Direct Stoichiometry, FTIR, and H-NMR. <i>Foods</i> , 2020 , 9, | 4.9 | 19 |
| 40 | Starch granule stabilized Pickering emulsions: an 8-year stability study. <i>Journal of the Science of Food and Agriculture</i> , 2020 , 100, 2807-2811 | 4.3 | 18 |
| 39 | Liquid droplet-like behaviour of whole casein aggregates adsorbed on graphite studied by nanoindentation with AFM. <i>Food Hydrocolloids</i> , 2007 , 21, 726-738 | 10.6 | 18 |
| 38 | Chloroplast thylakoid membrane-stabilised emulsions. <i>Journal of the Science of Food and Agriculture</i> , 2011 , 91, 315-21 | 4.3 | 17 |
| 37 | Storage stability of freeze-dried, spray-dried and drum-dried skim milk powders evaluated by available lysine. <i>LWT - Food Science and Technology</i> , 2016 , 73, 675-682 | 5.4 | 16 |

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| 36 | Production of vegetable oil in milk emulsions using membrane emulsification. <i>Desalination</i> , 2009 , 245, 631-638 | 10.3 | 14 |
| 35 | Application of a dye-binding method for the determination of available lysine in skim milk powders. <i>Food Chemistry</i> , 2016 , 196, 815-20 | 8.5 | 12 |
| 34 | General Principles of Nanoemulsion Formation by High-Energy Mechanical Methods 2018 , 103-139 | | 12 |
| 33 | The effect of heat treatment of thylakoids on their ability to inhibit in vitro lipase/co-lipase activity. <i>Food and Function</i> , 2014 , 5, 2157-65 | 6.1 | 12 |
| 32 | The Impact of Different Drying Techniques and Controlled Storage on the Development of Advanced Glycation End Products in Skim Milk Powders Using Isotope Dilution ESI-LC-MS/MS. <i>Food and Bioprocess Technology</i> , 2017 , 10, 1704-1714 | 5.1 | 12 |
| 31 | A comparison of emulsion stability for different OSA-modified waxy maize emulsifiers: Granules, dissolved starch, and non-solvent precipitates. <i>PLoS ONE</i> , 2019 , 14, e0210690 | 3.7 | 11 |
| 30 | Early and advanced stages of Maillard reaction in infant formulas: Analysis of available lysine and carboxymethyl-lysine. <i>PLoS ONE</i> , 2019 , 14, e0220138 | 3.7 | 11 |
| 29 | Synthesis of Starch Nanoparticles and Their Applications for Bioactive Compound Encapsulation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4547 | 2.6 | 11 |
| 28 | Dosimetric Response to Gamma-rays and Neutrons of a Tissue-equivalent Microstrip Gas Counter. <i>Radiation Protection Dosimetry</i> , 2000 , 91, 391-401 | 0.9 | 10 |
| 27 | Protein Recovery from Rapeseed Press Cake: Varietal and Processing Condition Effects on Yield, Emulsifying Capacity and Antioxidant Activity of the Protein Rich Extract. <i>Foods</i> , 2019 , 8, | 4.9 | 10 |
| 26 | Effects of starch granules differing in size and morphology from different botanical sources and their mixtures on the characteristics of Pickering emulsions. <i>Food Hydrocolloids</i> , 2019 , 89, 844-855 | 10.6 | 10 |
| 25 | Heat-induced aggregation of thylakoid membranes affect their interfacial properties. <i>Food and Function</i> , 2015 , 6, 1310-8 | 6.1 | 9 |
| 24 | In vitro intestinal lipolysis of emulsions based on starch granule Pickering stabilization. <i>Food Hydrocolloids</i> , 2019 , 95, 468-475 | 10.6 | 8 |
| 23 | Emulsifying and Anti-Oxidative Properties of Proteins Extracted from Industrially Cold-Pressed Rapeseed Press-Cake. <i>Foods</i> , 2020 , 9, | 4.9 | 8 |
| 22 | Pickering emulsions based on CaCl ₂ -gelatinized oat starch. <i>Food Hydrocolloids</i> , 2018 , 82, 288-295 | 10.6 | 8 |
| 21 | Skim milk powder with high content of Maillard reaction products affect weight gain, organ development and intestinal inflammation in early life in rats. <i>Food and Chemical Toxicology</i> , 2019 , 125, 78-84 | 4.7 | 8 |
| 20 | Rice Starch Particle Interactions at Air/Aqueous Interfaces-Effect of Particle Hydrophobicity and Solution Ionic Strength. <i>Frontiers in Chemistry</i> , 2018 , 6, 139 | 5 | 7 |
| 19 | Kinetics of available lysine in stored commercial skim milk powder at moderate temperatures. <i>International Journal of Food Science and Technology</i> , 2018 , 53, 2159-2165 | 3.8 | 6 |

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| 18 | Scales and Forces in Emulsification. <i>Contemporary Food Engineering</i> , 2015 , 3-32 | | 6 |
| 17 | Application of Natural Polymers in Food 2016 , 115-161 | | 5 |
| 16 | Daily Intake of Milk Powder and Risk of Celiac Disease in Early Childhood: A Nested Case-Control Study. <i>Nutrients</i> , 2018 , 10, | 6.7 | 4 |
| 15 | Development and Characterization of Extrudates Based on Rapeseed and Pea Protein Blends Using High-Moisture Extrusion Cooking. <i>Foods</i> , 2021 , 10, | 4.9 | 4 |
| 14 | Development and characterization of medium and high internal phase novel multiple Pickering emulsions stabilized by hordein nanoparticles. <i>Food Chemistry</i> , 2022 , 372, 131354 | 8.5 | 4 |
| 13 | Effects of Storage Conditions on Degradation of Chlorophyll and Emulsifying Capacity of Thylakoid Powders Produced by Different Drying Methods. <i>Foods</i> , 2020 , 9, | 4.9 | 3 |
| 12 | Characteristics and functionality of appetite-reducing thylakoid powders produced by three different drying processes. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 1554-1565 | 4.3 | 3 |
| 11 | Protein extraction from cold-pressed hempseed press cake: From laboratory to pilot scale.. <i>Journal of Food Science</i> , 2021 , | 3.4 | 3 |
| 10 | A novel emulsifier from spinach with appetite regulation abilities. <i>Procedia Food Science</i> , 2011 , 1, 1431-1438 | | 2 |
| 9 | Concentration of citrus fruit juices in membrane pouches with solar energy Part 1: How solar drying setup and juice pretreatment determine the drying flux. <i>Journal of Food Process Engineering</i> , 2020 , 43, e13335 | 2.4 | 2 |
| 8 | Concentration of citrus fruit juices in membrane pouches with solar energy Part 2: How solar drying setup and juice pretreatment determine the microbiological quality. <i>Journal of Food Process Engineering</i> , 2020 , 43, e13377 | 2.4 | 1 |
| 7 | Method to assess the drying performance of water vapour-permeable membrane pouches for fruit juice preservation. <i>Chemical Engineering Research and Design</i> , 2019 , 152, 433-446 | 5.5 | 1 |
| 6 | Formulation of Emulsions. <i>Contemporary Food Engineering</i> , 2015 , 51-100 | | 1 |
| 5 | Particle-stabilized Emulsions. <i>Contemporary Food Engineering</i> , 2015 , 101-122 | | 1 |
| 4 | Encapsulation of Antioxidants Using Double Emulsions. <i>Food Bioactive Ingredients</i> , 2020 , 249-286 | 0.2 | |
| 3 | Quinoa Starch Granules as Emulsion Stabilizers 2021 , 283-323 | | |
| 2 | Combined solar and membrane drying technologies for sustainable fruit preservation in low-income countries [prototype development, modelling, and testing. <i>Solar Energy Advances</i> , 2021 , 1, 100006 | | |
| 1 | Pilot-Scale Protein Recovery from Cold-Pressed Rapeseed Press Cake: Influence of Solids Recirculation. <i>Processes</i> , 2022 , 10, 557 | 2.9 | |

