

Kirsi S Mikkonen

List of Publications by Year in descending order

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73
papers

2,841
citations

126907

33
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189892

50
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76
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76
docs citations

76
times ranked

2682
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Polysaccharides as wall materials in spray-dried microencapsulation of bioactive compounds: Physicochemical properties and characterization. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 6983-7015. | 10.3 | 20 |
| 2 | An overview of nanoemulsion characterization <i>via</i> atomic force microscopy. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 4908-4928. | 10.3 | 23 |
| 3 | Dense and continuous networks of aerial hyphae improve flexibility and shape retention of mycelium composite in the wet state. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 152, 106688. | 7.6 | 28 |
| 4 | Emulsion characterization via microfluidic devices: A review on interfacial tension and stability to coalescence. <i>Advances in Colloid and Interface Science</i> , 2022, 299, 102541. | 14.7 | 71 |
| 5 | Valorization of cereal by-product hemicelluloses: Fractionation and purity considerations. <i>Food Research International</i> , 2022, 151, 110818. | 6.2 | 29 |
| 6 | Gut microbiota can utilize prebiotic birch glucuronoxylan in production of short-chain fatty acids in rats. <i>Food and Function</i> , 2022, 13, 3746-3759. | 4.6 | 10 |
| 7 | Valorization of Native Soluble and Insoluble Oat Side Streams for Stable Suspensions and Emulsions. <i>Food and Bioprocess Technology</i> , 2021, 14, 751-764. | 4.7 | 11 |
| 8 | Aerogels as porous structures for food applications: Smart ingredients and novel packaging materials. <i>Food Structure</i> , 2021, 28, 100188. | 4.5 | 62 |
| 9 | Kraft Processâ€™ Formation of Secoisolariciresinol Structures and Incorporation of Fatty Acids in Kraft Lignin. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5955-5965. | 5.2 | 7 |
| 10 | Green Fabrication Approaches of Lignin Nanoparticles from Different Technical Lignins: A Comparison Study. <i>ChemSusChem</i> , 2021, 14, 4718-4730. | 6.8 | 32 |
| 11 | Laccase as a Tool in Building Advanced Ligninâ€™Based Materials. <i>ChemSusChem</i> , 2021, 14, 4615-4635. | 6.8 | 59 |
| 12 | Combining cellulose nanofibrils and galactoglucomannans for enhanced stabilization of future food emulsions. <i>Cellulose</i> , 2021, 28, 10485-10500. | 4.9 | 2 |
| 13 | Insight on Current Advances in Food Science and Technology for Feeding the World Population. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, . | 3.9 | 32 |
| 14 | Active role of lignin in anchoring wood-based stabilizers to the emulsion interface. <i>Green Chemistry</i> , 2021, 23, 9084-9098. | 9.0 | 13 |
| 15 | Valorization of Urban Street Tree Pruning Residues in Biorefineries by Steam Refining: Conversion Into Fibers, Emulsifiers, and Biogas. <i>Frontiers in Chemistry</i> , 2021, 9, 779609. | 3.6 | 2 |
| 16 | Active food packaging through controlled in situ production and release of hexanal. <i>Food Chemistry: X</i> , 2020, 5, 100074. | 4.3 | 18 |
| 17 | Time-dependent self-association of spruce galactoglucomannans depends on pH and mechanical shearing. <i>Food Hydrocolloids</i> , 2020, 102, 105607. | 10.7 | 17 |
| 18 | Sensory profile of hemicellulose-rich wood extracts in yogurt models. <i>Cellulose</i> , 2020, 27, 7607-7620. | 4.9 | 11 |

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|----|--|------|-----------|
| 19 | Enrichment and Identification of Lignin–Carbohydrate Complexes in Softwood Extract. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11795-11804. | 6.7 | 23 |
| 20 | Fungal Cell Biomass From Enzyme Industry as a Sustainable Source of Hydrocolloids. <i>Frontiers in Chemical Engineering</i> , 2020, 2, . | 2.7 | 4 |
| 21 | Colloidal features of softwood galactoglucomannans-rich extract. <i>Carbohydrate Polymers</i> , 2020, 241, 116368. | 10.2 | 9 |
| 22 | Spruce Galactoglucomannan-Stabilized Emulsions Enhance Bioaccessibility of Bioactive Compounds. <i>Foods</i> , 2020, 9, 672. | 4.3 | 6 |
| 23 | Strategies for structuring diverse emulsion systems by using wood lignocellulose-derived stabilizers. <i>Green Chemistry</i> , 2020, 22, 1019-1037. | 9.0 | 40 |
| 24 | Comparison of novel fungal mycelia strains and sustainable growth substrates to produce humidity-resistant biocomposites. <i>Materials and Design</i> , 2020, 192, 108728. | 7.0 | 46 |
| 25 | Functionality of spruce galactoglucomannans in oil-in-water emulsions. <i>Food Hydrocolloids</i> , 2019, 86, 154-161. | 10.7 | 33 |
| 26 | Centrifugal fractionation of softwood extracts improves the biorefinery workflow and yields functional emulsifiers. <i>Green Chemistry</i> , 2019, 21, 4691-4705. | 9.0 | 27 |
| 27 | How properties of cellulose acetate films are affected by conditions of iodine-catalyzed acetylation and type of pulp. <i>Cellulose</i> , 2019, 26, 6119-6132. | 4.9 | 10 |
| 28 | Spruce galactoglucomannan-stabilized emulsions as essential fatty acid delivery systems for functionalized drinkable yogurt and oat-based beverage. <i>European Food Research and Technology</i> , 2019, 245, 1387-1398. | 3.3 | 23 |
| 29 | Rapid and Direct Preparation of Lignin Nanoparticles from Alkaline Pulping Liquor by Mild Ultrasonication. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19925-19934. | 6.7 | 71 |
| 30 | Effects of Enzymatic Hydrolysis of Fava Bean Protein Isolate by Alcalase on the Physical and Oxidative Stability of Oil-in-Water Emulsions. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 6625-6632. | 5.2 | 59 |
| 31 | Encapsulation of fish oil in protein aerogel micro-particles. <i>Journal of Food Engineering</i> , 2019, 260, 1-11. | 5.2 | 39 |
| 32 | Environmentally-compatible alkyd paints stabilized by wood hemicelluloses. <i>Industrial Crops and Products</i> , 2019, 133, 212-220. | 5.2 | 37 |
| 33 | Lignin-Rich PHWE Hemicellulose Extracts Responsible for Extended Emulsion Stabilization. <i>Frontiers in Chemistry</i> , 2019, 7, 871. | 3.6 | 31 |
| 34 | Emulsifier Composition of Solid Lipid Nanoparticles (SLN) Affects Mechanical and Barrier Properties of SLN–Protein Composite Films. <i>Journal of Food Science</i> , 2019, 84, 3642-3652. | 3.1 | 9 |
| 35 | The Hydrophobicity of Lignocellulosic Fiber Network Can Be Enhanced with Suberin Fatty Acids. <i>Molecules</i> , 2019, 24, 4391. | 3.8 | 7 |
| 36 | Safety considerations of plant polysaccharides for food use: a case study on phenolic-rich softwood galactoglucomannan extract. <i>Food and Function</i> , 2018, 9, 1931-1943. | 4.6 | 33 |

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|----|---|------|-----------|
| 37 | Novel nanobiocomposite hydrogels based on sage seed gum-laponite: Physico-chemical and rheological characterization. <i>Carbohydrate Polymers</i> , 2018, 192, 282-290. | 10.2 | 22 |
| 38 | Phenolic residues in spruce galactoglucomannans improve stabilization of oil-in-water emulsions. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 536-547. | 9.4 | 39 |
| 39 | Transparent, Flexible, and Strong 2,3-Dialdehyde Cellulose Films with High Oxygen Barrier Properties. <i>Biomacromolecules</i> , 2018, 19, 2969-2978. | 5.4 | 109 |
| 40 | Physicochemical and rheo-mechanical properties of titanium dioxide reinforced sage seed gum nanohybrid hydrogel. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 661-670. | 7.5 | 17 |
| 41 | Mesoporous guar galactomannan based biocomposite aerogels through enzymatic crosslinking. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 94, 93-103. | 7.6 | 30 |
| 42 | Synchrotron Microtomography Reveals the Fine Three-Dimensional Porosity of Composite Polysaccharide Aerogels. <i>Materials</i> , 2017, 10, 871. | 2.9 | 6 |
| 43 | Determination of physical emulsion stabilization mechanisms of wood hemicelluloses via rheological and interfacial characterization. <i>Soft Matter</i> , 2016, 12, 8690-8700. | 2.7 | 50 |
| 44 | Softwood-based sponge gels. <i>Cellulose</i> , 2016, 23, 3221-3238. | 4.9 | 17 |
| 45 | Spruce galactoglucomannans inhibit lipid oxidation in rapeseed oil-in-water emulsions. <i>Food Hydrocolloids</i> , 2016, 58, 255-266. | 10.7 | 42 |
| 46 | Machine-coated starch-based dispersion coatings prevent mineral oil migration from paperboard. <i>Progress in Organic Coatings</i> , 2016, 99, 173-181. | 3.9 | 10 |
| 47 | Spruce galactoglucomannans in rapeseed oil-in-water emulsions: Efficient stabilization performance and structural partitioning. <i>Food Hydrocolloids</i> , 2016, 52, 615-624. | 10.7 | 42 |
| 48 | Composite films of nanofibrillated cellulose and O-acetyl galactoglucomannan (GGM) coated with succinic esters of GGM showing potential as barrier material in food packaging. <i>Journal of Materials Science</i> , 2015, 50, 3189-3199. | 3.7 | 38 |
| 49 | Butylamino-functionalized cellulose nanocrystal films: barrier properties and mechanical strength. <i>RSC Advances</i> , 2015, 5, 15140-15146. | 3.6 | 39 |
| 50 | Combination of internal and external plasticization of hydroxypropylated birch xylan tailors the properties of sustainable barrier films. <i>European Polymer Journal</i> , 2015, 66, 307-318. | 5.4 | 36 |
| 51 | Strengthening effect of nanofibrillated cellulose is dependent on enzymatically oxidized polysaccharide gel matrices. <i>European Polymer Journal</i> , 2015, 71, 171-184. | 5.4 | 18 |
| 52 | Biocomposites of Nanofibrillated Cellulose, Polypyrrole, and Silver Nanoparticles with Electroconductive and Antimicrobial Properties. <i>Biomacromolecules</i> , 2014, 15, 3655-3663. | 5.4 | 106 |
| 53 | Wood cell wall mimicking for composite films of spruce nanofibrillated cellulose with spruce galactoglucomannan and arabinoglucuronoxylan. <i>Journal of Materials Science</i> , 2014, 49, 5043-5055. | 3.7 | 14 |
| 54 | Enzymatic oxidation as a potential new route to produce polysaccharide aerogels. <i>RSC Advances</i> , 2014, 4, 11884. | 3.6 | 44 |

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|----|--|------|-----------|
| 55 | Nanofibrillated cellulose originated from birch sawdust after sequential extractions: a promising polymeric material from waste to films. <i>Cellulose</i> , 2014, 21, 2587-2598. | 4.9 | 61 |
| 56 | Carboxymethylation of alkali extracted xylan for preparation of bio-based packaging films. <i>Carbohydrate Polymers</i> , 2014, 100, 89-96. | 10.2 | 80 |
| 57 | Crosslinking with ammonium zirconium carbonate improves the formation and properties of spruce galactoglucomannan films. <i>Journal of Materials Science</i> , 2013, 48, 4205-4213. | 3.7 | 32 |
| 58 | Prospects of polysaccharide aerogels as modern advanced food materials. <i>Trends in Food Science and Technology</i> , 2013, 34, 124-136. | 15.1 | 132 |
| 59 | Specific enzymatic tailoring of wheat arabinoxylan reveals the role of substitution on xylan film properties. <i>Carbohydrate Polymers</i> , 2013, 92, 733-740. | 10.2 | 36 |
| 60 | Recent Studies on Hemicellulose-Based Blends, Composites and Nanocomposites. <i>Advanced Structured Materials</i> , 2013, , 313-336. | 0.5 | 6 |
| 61 | Long-Term Physical Stability of Plasticized Hemicellulose Films. <i>BioResources</i> , 2013, 9, . | 1.0 | 4 |
| 62 | Sustainable food-packaging materials based on future biorefinery products: Xylans and mannans. <i>Trends in Food Science and Technology</i> , 2012, 28, 90-102. | 15.1 | 174 |
| 63 | Films from Glyoxal-Crosslinked Spruce Galactoglucomannans Plasticized with Sorbitol. <i>International Journal of Polymer Science</i> , 2012, 2012, 1-8. | 2.7 | 39 |
| 64 | Arabinoxylan structure affects the reinforcement of films by microfibrillated cellulose. <i>Cellulose</i> , 2012, 19, 467-480. | 4.9 | 54 |
| 65 | Composite films from spruce galactoglucomannans with microfibrillated spruce wood cellulose. <i>Cellulose</i> , 2011, 18, 713-726. | 4.9 | 58 |
| 66 | Bacterial nanocellulose reinforced arabinoxylan films. <i>Journal of Applied Polymer Science</i> , 2011, 122, 1030-1039. | 2.6 | 68 |
| 67 | The effect of galactose side units and mannan chain length on the macromolecular characteristics of galactomannans. <i>Carbohydrate Polymers</i> , 2011, 86, 1230-1235. | 10.2 | 19 |
| 68 | Glucomannan composite films with cellulose nanowhiskers. <i>Cellulose</i> , 2010, 17, 69-81. | 4.9 | 60 |
| 69 | Spruce galactoglucomannan films show promising barrier properties. <i>Carbohydrate Polymers</i> , 2010, 79, 1107-1112. | 10.2 | 82 |
| 70 | Comparison of Microencapsulation Properties of Spruce Galactoglucomannans and Arabic Gum Using a Model Hydrophobic Core Compound. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 981-989. | 5.2 | 12 |
| 71 | Films from oat spelt arabinoxylan plasticized with glycerol and sorbitol. <i>Journal of Applied Polymer Science</i> , 2009, 114, 457-466. | 2.6 | 100 |
| 72 | Mannans as stabilizers of oil-in-water beverage emulsions. <i>LWT - Food Science and Technology</i> , 2009, 42, 849-855. | 5.2 | 74 |

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|----|--|-----|-----------|
| 73 | Effect of Polysaccharide Structure on Mechanical and Thermal Properties of Galactomannan-Based Films. <i>Biomacromolecules</i> , 2007, 8, 3198-3205. | 5.4 | 117 |