

# Anna K StrÅm

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,451  
citations

331259

21  
h-index

329751

37  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resolution of the structural isomers of partially methylesterified oligogalacturonides by polysaccharide analysis using carbohydrate gel electrophoresis. <i>Glycobiology</i> , 2006, 16, 29-35.	1.3	221
2	Influence of Pectin Fine Structure on the Mechanical Properties of Calcium~Pectin and Acid~Pectin Gels. <i>Biomacromolecules</i> , 2007, 8, 2668-2674.	2.6	103
3	Rheological characterization of acid pectin samples in the absence and presence of monovalent ions. <i>Carbohydrate Polymers</i> , 2014, 113, 336-343.	5.1	76
4	Liquid Norbornadiene Photoswitches for Solar Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1703401.	10.2	61
5	Roll~to~Roll Dyed Conducting Silk Yarns: A Versatile Material for E~Textile Devices. <i>Advanced Materials Technologies</i> , 2018, 3, 1800251.	3.0	56
6	Preparation and physical properties of hyaluronic acid~based cryogels. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	55
7	Microstructural, mechanical and mass transport properties of isotropic and capillary alginate gels. <i>Soft Matter</i> , 2014, 10, 357-366.	1.2	52
8	Impact of solvent quality on the network strength and structure of alginate gels. <i>Carbohydrate Polymers</i> , 2016, 144, 289-296.	5.1	51
9	Dose~Dependent Suppression of Hunger by a Specific Alginate in a Low~Viscosity Drink Formulation. <i>Obesity</i> , 2011, 19, 1171-1176.	1.5	49
10	Effect of silencing the two major tomato fruit pectin methylesterase isoforms on cell wall pectin metabolism. <i>Plant Biology</i> , 2013, 15, 1025-1032.	1.8	46
11	Advanced structural characterisation of agar-based hydrogels: Rheological and small angle scattering studies. <i>Carbohydrate Polymers</i> , 2020, 236, 115655.	5.1	38
12	Diffusion of macromolecules in self-assembled cellulose/hemicellulose hydrogels. <i>Soft Matter</i> , 2015, 11, 4002-4010.	1.2	36
13	Periodate oxidation of xylan-based hemicelluloses and its effect on their thermal properties. <i>Carbohydrate Polymers</i> , 2018, 202, 280-287.	5.1	35
14	Microstructure of polymer hydrogels studied by pulsed field gradient NMR diffusion and TEM methods. <i>Soft Matter</i> , 2011, 7, 5711.	1.2	34
15	On the separation, detection and quantification of pectin derived oligosaccharides by capillary electrophoresis. <i>Carbohydrate Research</i> , 2004, 339, 1711-1716.	1.1	31
16	Correlating network structure with functional properties of capillary alginate gels for muscle fiber formation. <i>Food Hydrocolloids</i> , 2017, 72, 210-218.	5.6	31
17	High sugar content impacts microstructure, mechanics and release of calcium-alginate gels. <i>Food Hydrocolloids</i> , 2018, 84, 26-33.	5.6	31
18	Rheological and structural characterization of carrageenan emulsion gels. <i>Algal Research</i> , 2020, 47, 101873.	2.4	31

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19	Controlled Calcium Release in the Absence and Presence of an Ion-Binding Polymer. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10995-10999.	1.2	28
20	An investigation of pectin methylesterification patterns by two independent methods: capillary electrophoresis and polysaccharide analysis using carbohydrate gel electrophoresis. <i>Carbohydrate Research</i> , 2005, 340, 1193-1199.	1.1	23
21	Thermoplastic and Flexible Films from Arabinoxylan. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1443-1450.	2.0	23
22	Recovery of a protein-rich biomass from shrimp ( <i>Pandalus borealis</i> ) boiling water: A colloidal study. <i>Food Chemistry</i> , 2020, 302, 125299.	4.2	23
23	Electrophoretic Behavior of Copolymeric Galacturonans Including Comments on the Information Content of the Intermolecular Charge Distribution. <i>Biomacromolecules</i> , 2009, 10, 1523-1531.	2.6	21
24	Modeling capillary formation in calcium and copper alginate gels. <i>Materials Science and Engineering C</i> , 2016, 58, 442-449.	3.8	18
25	Understanding nanostructural differences in hydrogels from commercial carrageenans: Combined small angle X-ray scattering and rheological studies. <i>Algal Research</i> , 2020, 47, 101882.	2.4	18
26	Altered Thermal and Mechanical Properties of Spruce Galactoglucomannan Films Modified with an Etherification Reaction. <i>Biomacromolecules</i> , 2020, 21, 1832-1840.	2.6	18
27	Interplay between flow and diffusion in capillary alginate hydrogels. <i>Soft Matter</i> , 2016, 12, 3897-3907.	1.2	17
28	Dynamics of capillary transport in semi-solid channels. <i>Soft Matter</i> , 2017, 13, 2562-2570.	1.2	17
29	Hydrogels as a water bolus during hyperthermia treatment. <i>Physics in Medicine and Biology</i> , 2019, 64, 115025.	1.6	17
30	Alginate and HM-pectin in sports-drink give rise to intra-gastric gelation <i>in vivo</i> . <i>Food and Function</i> , 2019, 10, 7892-7899.	2.1	17
31	Modification of xylan via an oxidation–reduction reaction. <i>Carbohydrate Polymers</i> , 2022, 292, 119660.	5.1	16
32	The effect of sulfate half-ester groups on cellulose nanocrystal periodate oxidation. <i>Cellulose</i> , 2021, 28, 9633-9644.	2.4	15
33	A Multi-Component Reaction towards the Development of Highly Modular Hydrogelators. <i>Chemistry - A European Journal</i> , 2018, 24, 8071-8075.	1.7	13
34	Dynamic Nanocellulose Networks for Thermoset-like yet Recyclable Plastics with a High Melt Stiffness and Creep Resistance. <i>Biomacromolecules</i> , 2019, 20, 3924-3932.	2.6	13
35	Maximizing the oil content in polysaccharide-based emulsion gels for the development of tissue mimicking phantoms. <i>Carbohydrate Polymers</i> , 2021, 256, 117496.	5.1	12
36	Effect of physicochemical properties, pre-processing, and extraction on the functionality of wheat bran arabinoxylans in breadmaking – A review. <i>Food Chemistry</i> , 2022, 383, 132584.	4.2	12

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37	Capillary electrophoresis of homogeneous pectin fractions. <i>Carbohydrate Polymers</i> , 2005, 60, 467-473.	5.1	11
38	Phase behavior, rheology, and release from liquid crystalline phases containing combinations of glycerol monooleate, glyceryl monooleyl ether, propylene glycol, and water. <i>RSC Advances</i> , 2017, 7, 32966-32973.	1.7	9
39	Oxidized xylan additive for nanocellulose films – A swelling modifier. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 753-759.	3.6	9
40	Controlling water permeability of composite films of polylactide acid, cellulose, and xyloglucan. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	8
41	Oxidation Level and Glycidyl Ether Structure Determine Thermal Processability and Thermomechanical Properties of Arabinoxylan-Derived Thermoplastics. <i>ACS Applied Bio Materials</i> , 2021, 4, 3133-3144.	2.3	7
42	Impact of Glucose on the Nanostructure and Mechanical Properties of Calcium-Alginate Hydrogels. <i>Gels</i> , 2022, 8, 71.	2.1	7
43	Microcellular foaming of arabinoxylan and PEGylated arabinoxylan with supercritical CO <sub>2</sub> . <i>Carbohydrate Polymers</i> , 2018, 181, 442-449.	5.1	6
44	Hydrophobization of arabinoxylan with n-butyl glycidyl ether yields stretchable thermoplastic materials. <i>International Journal of Biological Macromolecules</i> , 2021, 188, 491-500.	3.6	6
45	Stick-slip motion and controlled filling speed by the geometric design of soft micro-channels. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 139-147.	5.0	5
46	Side chains affect the melt processing and stretchability of arabinoxylan biomass-based thermoplastic films. <i>Chemosphere</i> , 2022, 294, 133618.	4.2	5
47	Soft Gelatin Films Modified with Cellulose Acetate Phthalate Pseudolatex Dispersion – Structure and Permeability. <i>Polymers</i> , 2018, 10, 981.	2.0	4
48	Determination of mechanical and rheological properties of a cell-loaded peptide gel during ECM production. <i>International Journal of Pharmaceutics</i> , 2019, 563, 437-444.	2.6	4
49	Odunsi <i>et al</i> . Results for CM3 Cannot Be Extrapolated to Alginates in General. <i>Obesity</i> , 2010, 18, 2069-2069.	1.5	3
50	Fat tissue equivalent phantoms for microwave applications by reinforcing gelatin with nanocellulose. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 065025.	0.6	3