

# Anette Larsson

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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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.

103  
papers

2,330  
citations

26  
h-index

43  
g-index

111  
ext. papers

2,572  
ext. citations

6.2  
avg, IF

5.05  
L-index

#	Paper	IF	Citations
103	Screening of hydrogen bonds in modified cellulose acetates with alkyl chain substitutions.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 285, 119188	10.3	0
102	Side chains affect the melt processing and stretchability of arabinoxylan biomass-based thermoplastic films.. <i>Chemosphere</i> , <b>2022</b> , 294, 133618	8.4	1
101	Mass Transport of Lignin in Confined Pores. <i>Polymers</i> , <b>2022</b> , 14, 1993	4.5	0
100	Enabling modular dosage form concepts for individualized multidrug therapy: Expanding the design window for poorly water-soluble drugs. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 602, 120625	6.5	2
99	Influence of Drug Load on the Printability and Solid-State Properties of 3D-Printed Naproxen-Based Amorphous Solid Dispersion. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
98	Oxidation Level and Glycidyl Ether Structure Determine Thermal Processability and Thermomechanical Properties of Arabinoxylan-Derived Thermoplastics.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 3133-3144	4.1	3
97	Fundamental aspects of the non-covalent modification of cellulose via polymer adsorption. <i>Advances in Colloid and Interface Science</i> , <b>2021</b> , 298, 102529	14.3	5
96	Specific ion effects in the adsorption of carboxymethyl cellulose on cellulose: The influence of industrially relevant divalent cations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 626, 127006	5.1	1
95	Hydrophobization of arabinoxylan with n-butyl glycidyl ether yields stretchable thermoplastic materials. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 188, 491-500	7.9	1
94	Polymers in pharmaceutical additive manufacturing: A balancing act between printability and product performance. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 177, 113923	18.5	6
93	Scattering studies of the size and structure of cellulose dissolved in aqueous hydroxide base solvents. <i>Carbohydrate Polymers</i> , <b>2021</b> , 274, 118634	10.3	
92	Probing Interactions in Combined Hydroxide Base Solvents for Improving Dissolution of Cellulose. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
91	Altered Thermal and Mechanical Properties of Spruce Galactoglucomannan Films Modified with an Etherification Reaction. <i>Biomacromolecules</i> , <b>2020</b> , 21, 1832-1840	6.9	10
90	Therapy for the individual: Towards patient integration into the manufacturing and provision of pharmaceuticals. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2020</b> , 149, 58-76	5.7	28
89	Controlled Drug Release by the Pore Structure in Polydimethylsiloxane Transdermal Patches. <i>Polymers</i> , <b>2020</b> , 12,	4.5	5
88	Independent Tailoring of Dose and Drug Release via a Modularized Product Design Concept for Mass Customization. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	8
87	Dissolution of cellulose using a combination of hydroxide bases in aqueous solution. <i>Cellulose</i> , <b>2020</b> , 27, 101-112	5.5	14

86	Thermoplastic and Flexible Films from Arabinoxylan. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 1443-1450	4.3	11
85	High Content Solid Dispersions for Dose Window Extension: A Basis for Design Flexibility in Fused Deposition Modelling. <i>Pharmaceutical Research</i> , <b>2019</b> , 37, 9	4.5	8
84	New features of arabinoxylan ethers revealed by using multivariate analysis. <i>Carbohydrate Polymers</i> , <b>2019</b> , 204, 255-261	10.3	7
83	Stick-slip motion and controlled filling speed by the geometric design of soft micro-channels. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 524, 139-147	9.3	3
82	Water vapor mass transport across nanofibrillated cellulose films: effect of surface hydrophobization. <i>Cellulose</i> , <b>2018</b> , 25, 347-356	5.5	11
81	Microcellular foaming of arabinoxylan and PEGylated arabinoxylan with supercritical CO <sub>2</sub> . <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 442-449	10.3	4
80	Modeling the mechanics and the transport phenomena in hydrogels. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 42, 357-383	0.6	7
79	New insights on the influence of manufacturing conditions and molecular weight on phase-separated films intended for controlled release. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 536, 261-271	6.5	2
78	Periodate oxidation of xylan-based hemicelluloses and its effect on their thermal properties. <i>Carbohydrate Polymers</i> , <b>2018</b> , 202, 280-287	10.3	24
77	Soft Gelatin Films Modified with Cellulose Acetate Phthalate Pseudolatex Dispersion-Structure and Permeability. <i>Polymers</i> , <b>2018</b> , 10,	4.5	2
76	High sugar content impacts microstructure, mechanics and release of calcium-alginate gels. <i>Food Hydrocolloids</i> , <b>2018</b> , 84, 26-33	10.6	18
75	An overview of the transport of liquid molecules through structured polymer films, barriers and composites - Experiments correlated to structure-based simulations. <i>Advances in Colloid and Interface Science</i> , <b>2018</b> , 256, 48-64	14.3	8
74	Mathematical modelling of the drug release from an ensemble of coated pellets. <i>British Journal of Pharmacology</i> , <b>2017</b> , 174, 1797-1809	8.6	18
73	Dynamics of capillary transport in semi-solid channels. <i>Soft Matter</i> , <b>2017</b> , 13, 2562-2570	3.6	12
72	Effects of HPMC substituent pattern on water up-take, polymer and drug release: An experimental and modelling study. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 528, 705-713	6.5	24
71	Determination of the release mechanism of Theophylline from pellets coated with Surelease-A water dispersion of ethyl cellulose. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 528, 345-353	6.5	14
70	Swelling and mass transport properties of nanocellulose-HPMC composite films. <i>Materials and Design</i> , <b>2017</b> , 122, 414-421	8.1	9
69	The importance of the molecular weight of ethyl cellulose on the properties of aqueous-based controlled release coatings. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 519, 157-164	6.5	9

68	Drug Delivery From Hydrogels: A General Framework for the Release Modeling. <i>Current Drug Delivery</i> , <b>2017</b> , 14, 179-189	3.2	11
67	The influence of the molecular weight of the water-soluble polymer on phase-separated films for controlled release. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 511, 223-235	6.5	9
66	Permeability of water and oleic acid in composite films of phase separated polypropylene and cellulose stearate blends. <i>Carbohydrate Polymers</i> , <b>2016</b> , 152, 450-458	10.3	5
65	Characterization of pore structure of polymer blended films used for controlled drug release. <i>Journal of Controlled Release</i> , <b>2016</b> , 222, 151-8	11.7	21
64	Modeling capillary formation in calcium and copper alginate gels. <i>Materials Science and Engineering C</i> , <b>2016</b> , 58, 442-9	8.3	14
63	Swellable Hydrogel-based Systems for Controlled Drug Delivery <b>2016</b> ,		13
62	Preparation and preclinical evaluation of a freeze-dried formulation of a novel combined multivalent whole-cell/B-subunit oral vaccine against enterotoxigenic Escherichia coli diarrhea. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2016</b> , 108, 18-24	5.7	7
61	Understanding the adhesion phenomena in carbohydrate-hydrogel-based systems: Water up-take, swelling and elastic detachment. <i>Carbohydrate Polymers</i> , <b>2015</b> , 131, 41-9	10.3	11
60	Preparation and physical properties of hyaluronic acid-based cryogels. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132,	2.9	44
59	Solid-state NMR to quantify surface coverage and chain length of lactic acid modified cellulose nanocrystals, used as fillers in biodegradable composites. <i>Composites Science and Technology</i> , <b>2015</b> , 107, 1-9	8.6	63
58	Controlling water permeability of composite films of polylactide acid, cellulose, and xyloglucan. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132,	2.9	6
57	Microstructural, mechanical and mass transport properties of isotropic and capillary alginate gels. <i>Soft Matter</i> , <b>2014</b> , 10, 357-66	3.6	45
56	A mechanistic approach to explain the relation between increased dispersion of surface modified cellulose nanocrystals and final porosity in biodegradable films. <i>European Polymer Journal</i> , <b>2014</b> , 57, 160-168	5.2	13
55	Permeability of Porous Poly(3-hydroxybutyrate) Barriers of Single and Bilayer Type for Implant Applications. <i>International Journal of Polymer Science</i> , <b>2014</b> , 2014, 1-8	2.4	7
54	Nanocomposites of Polyacrylic Acid Nanogels and Biodegradable Polyhydroxybutyrate for Bone Regeneration and Drug Delivery. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-9	3.2	22
53	Identification and qualitative characterization of high and low lignin lines from an oat TILLING population. <i>Industrial Crops and Products</i> , <b>2014</b> , 59, 1-8	5.9	15
52	Gene expression profiling of peri-implant healing of PLGA-Li+ implants suggests an activated Wnt signaling pathway in vivo. <i>PLoS ONE</i> , <b>2014</b> , 9, e102597	3.7	11
51	Effects of molecular weight on permeability and microstructure of mixed ethyl-hydroxypropyl-cellulose films. <i>European Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 48, 240-8	5.1	48

50	New insights on how to adjust the release profile from coated pellets by varying the molecular weight of ethyl cellulose in the coating film. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 458, 218-23	6.5	22
49	Mechanistic modelling of drug release from a polymer matrix using magnetic resonance microimaging. <i>European Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 48, 698-708	5.1	32
48	Evaluation of Carboxymethyl-Hexanoyl Chitosan as a Protein Nanocarrier. <i>Nanomaterials and Nanotechnology</i> , <b>2013</b> , 3, 7	2.9	3
47	Design and characterization of a novel amphiphilic chitosan nanocapsule-based thermo-gelling biogel with sustained in vivo release of the hydrophilic anti-epilepsy drug ethosuximide. <i>Journal of Controlled Release</i> , <b>2012</b> , 161, 942-8	11.7	74
46	Effect of protein release rates from tablet formulations on the immune response after sublingual immunization. <i>European Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 47, 695-700	5.1	14
45	Increased water transport in PDMS silicone films by addition of excipients. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 579-88	10.8	15
44	Novel nanostructured microfibrillated cellulose/hydroxypropyl methylcellulose films with large one-dimensional swelling and tunable permeability. <i>Carbohydrate Polymers</i> , <b>2012</b> , 88, 763-771	10.3	8
43	Preparation of Porous Poly(3-Hydroxybutyrate) Films by Water-Droplet Templating. <i>Journal of Biomaterials and Nanobiotechnology</i> , <b>2012</b> , 03, 431-439	1	9
42	The consequence of the chemical composition of HPMC in matrix tablets on the release behaviour of model drug substances having different solubility. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2011</b> , 77, 99-110	5.7	25
41	The influence of crystallization inhibition of HPMC and HPMCAS on model substance dissolution and release in swellable matrix tablets. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2011</b> , 78, 125-33	5.7	51
40	Release of theophylline and carbamazepine from matrix tablets--consequences of HPMC chemical heterogeneity. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2011</b> , 78, 470-9	5.7	23
39	Preparation and evaluation of a freeze-dried oral killed cholera vaccine formulation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2011</b> , 79, 508-18	5.7	12
38	Dissolution rate enhancement of parabens in PEG solid dispersions and its influence on the release from hydrophilic matrix tablets. <i>Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 100, 275-83	3.9	15
37	Effect of annealing time and addition of lactose on release of a model substance from Eudragit <sup>®</sup> RS coated pellets produced by a fluidized bed coater. <i>Chemical Engineering Research and Design</i> , <b>2011</b> , 89, 697-705	5.5	8
36	Quantification of protein concentration by the Bradford method in the presence of pharmaceutical polymers. <i>Analytical Biochemistry</i> , <b>2011</b> , 411, 116-21	3.1	78
35	Effect of ethanol on the water permeability of controlled release films composed of ethyl cellulose and hydroxypropyl cellulose. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2010</b> , 76, 428-32	5.7	38
34	Model drug release from matrix tablets composed of HPMC with different substituent heterogeneity. <i>International Journal of Pharmaceutics</i> , <b>2010</b> , 401, 60-7	6.5	23
33	High Performance Polysodium Acrylate Superabsorbents Utilizing Microfibrillated Cellulose to Augment Gel Properties. <i>Soft Materials</i> , <b>2010</b> , 8, 207-225	1.7	15

32	Oral Extended-Release Formulations <b>2010</b> , 1		1
31	The effect of substitution pattern of HPMC on polymer release from matrix tablets. <i>International Journal of Pharmaceutics</i> , <b>2010</b> , 389, 147-56	6.5	32
30	A mechanistic modelling approach to polymer dissolution using magnetic resonance microimaging. <i>Journal of Controlled Release</i> , <b>2010</b> , 147, 232-41	11.7	37
29	Swelling and polymer erosion for poly(ethylene oxide) tablets of different molecular weights polydispersities. <i>Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 99, 1225-38	3.9	26
28	Osmotic-driven mass transport of water: impact on the adhesiveness of hydrophilic polymers. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 341, 255-60	9.3	10
27	The influence of HPMC substitution pattern on solid-state properties. <i>Carbohydrate Polymers</i> , <b>2010</b> , 82, 1074-1081	10.3	16
26	Influence of different polymer types on the overall release mechanism in hydrophilic matrix tablets. <i>Molecules</i> , <b>2009</b> , 14, 2699-716	4.8	26
25	Effect of calcium neutralization on elastic and swelling properties of crosslinked poly(acrylic acid) - correlation to inhomogeneities and phase behaviour. <i>E-Polymers</i> , <b>2009</b> , 9,	2.7	3
24	Investigation of critical polymer properties for polymer release and swelling of HPMC matrix tablets. <i>European Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 36, 297-309	5.1	79
23	The effect of chemical heterogeneity of HPMC on polymer release from matrix tablets. <i>European Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 36, 392-400	5.1	46
22	Simultaneous probing of swelling, erosion and dissolution by NMR-microimaging--effect of solubility of additives on HPMC matrix tablets. <i>European Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 37, 89-97	5.1	59
21	The impact of dose and solubility of additives on the release from HPMC matrix tablets--identifying critical conditions. <i>Pharmaceutical Research</i> , <b>2009</b> , 26, 1496-503	4.5	36
20	Influence of substitution pattern on solution behavior of hydroxypropyl methylcellulose. <i>Biomacromolecules</i> , <b>2009</b> , 10, 522-9	6.9	25
19	Relating solubility data of parabens in liquid PEG 400 to the behaviour of PEG 4000-parabens solid dispersions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2009</b> , 73, 260-8	5.7	18
18	Novel mechanistic description of the water granulation process for hydrophilic polymers. <i>Powder Technology</i> , <b>2008</b> , 188, 139-146	5.2	10
17	Binding of intercalating and groove-binding cyanine dyes to bacteriophage t5. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 1139-48	3.4	21
16	New release cell for NMR microimaging of tablets. Swelling and erosion of poly(ethylene oxide). <i>International Journal of Pharmaceutics</i> , <b>2007</b> , 342, 105-14	6.5	43
15	Comparing mono- and divalent DNA groove binding cyanine dyes -- binding geometries, dissociation rates, and fluorescence properties. <i>Biophysical Chemistry</i> , <b>2006</b> , 122, 195-205	3.5	8

14	A model for the drug release from a polymer matrix tablet--effects of swelling and dissolution. <i>Journal of Controlled Release</i> , <b>2006</b> , 113, 216-25	11.7	73
13	Initial studies of water granulation of eight grades of hypromellose (HPMC). <i>International Journal of Pharmaceutics</i> , <b>2006</b> , 313, 57-65	6.5	24
12	Tuning the polymer release from hydrophilic matrix tablets by mixing short and long matrix polymers. <i>Journal of Pharmaceutical Sciences</i> , <b>2005</b> , 94, 759-69	3.9	18
11	Molecular information on the dissolution of polydisperse polymers: Mixtures of long and short poly(ethylene oxide). <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 11530-7	3.4	30
10	Experimental and simulated fluorescence depolarization due to energy transfer as tools to study DNA-dye interactions. <i>Biopolymers</i> , <b>1997</b> , 41, 481-494	2.2	23
9	Microscopic Studies on the Migration Mechanism. <i>Chromatographia CE Series</i> , <b>1997</b> , 67-89		4
8	Influence of optical probing with YOYO on the electrophoretic behavior of the DNA molecule. <i>Electrophoresis</i> , <b>1996</b> , 17, 642-51	3.6	34
7	Simulations of the overshoot in the build-up of orientation of long DNA during gel electrophoresis based on a distribution of oscillation times. <i>Electrophoresis</i> , <b>1996</b> , 17, 1425-35	3.6	4
6	DAPI Staining of DNA: Effect of Change in Charge, Flexibility, and Contour Length on Orientational Dynamics and Mobility of the DNA during Agarose Gel Electrophoresis. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 3252-3263		21
5	Period Times and Helix Alignment during the Cyclic Migration of DNA in Electrophoresis Gels Studied with Fluorescence Microscopy. <i>Macromolecules</i> , <b>1995</b> , 28, 4441-4454	5.5	42
4	Characterization of the binding of YO to [poly(dA-dT)] <sub>2</sub> and [poly(dG-dC)] <sub>2</sub> , and of the fluorescent properties of YO and YOYO complexed with the polynucleotides and double-stranded DNA. <i>Biopolymers</i> , <b>1995</b> , 36, 153-67	2.2	52
3	Characterization of the Binding of the Fluorescent Dyes YO and YOYO to DNA by Polarized Light Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 8459-8465	16.4	270
2	Optical and Photophysical Properties of the Oxazole Yellow DNA Probes YO and YOYO. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 10313-10321		122
1	Oral Extended-Release Formulations 1191-1222		4