Anette Larsson

List of Publications by Year
in descending order

104 papers	2,877 citations	172207 29 h-index	214527 47 g-index
111 all docs	111 docs citations	111 times ranked	3031 citing authors

#	Article	IF	Citations
1	Characterization of the Binding of the Fluorescent Dyes YO and YOYO to DNA by Polarized Light Spectroscopy. Journal of the American Chemical Society, 1994, 116, 8459-8465.	6.6	287
2	Optical and Photophysical Properties of the Oxazole Yellow DNA Probes YO and YOYO. The Journal of Physical Chemistry, 1994, 98, 10313-10321.	2.9	132
3	Quantification of protein concentration by the Bradford method in the presence of pharmaceutical polymers. Analytical Biochemistry, 2011, 411, 116-121.	1.1	99
4	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. Journal of Controlled Release, 2012, 161, 942-948.	4.8	92
5	Investigation of critical polymer properties for polymer release and swelling of HPMC matrix tablets. European Journal of Pharmaceutical Sciences, 2009, 36, 297-309.	1.9	91
6	A model for the drug release from a polymer matrix tabletâ€"effects of swelling and dissolution. Journal of Controlled Release, 2006, 113, 216-225.	4.8	86
7	Solid-state NMR to quantify surface coverage and chain length of lactic acid modified cellulose nanocrystals, used as fillers in biodegradable composites. Composites Science and Technology, 2015, 107, 1-9.	3.8	76
8	Simultaneous probing of swelling, erosion and dissolution by NMR-microimagingâ€"Effect of solubility of additives on HPMC matrix tablets. European Journal of Pharmaceutical Sciences, 2009, 37, 89-97.	1.9	66
9	The influence of crystallization inhibition of HPMC and HPMCAS on model substance dissolution and release in swellable matrix tablets. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 78, 125-133.	2.0	57
10	Characterization of the binding of YO to [poly(dA-dT)]2 and [poly(dG-dC)]2, and of the fluorescent properties of YO and YOYO complexed with the polynucleotides and double-stranded DNA. Biopolymers, 1995, 36, 153-167.	1.2	55
11	The effect of chemical heterogeneity of HPMC on polymer release from matrix tablets. European Journal of Pharmaceutical Sciences, 2009, 36, 392-400.	1.9	55
12	Preparation and physical properties of hyaluronic acidâ€based cryogels. Journal of Applied Polymer Science, 2015, 132, .	1.3	55
13	Effects of molecular weight on permeability and microstructure of mixed ethyl-hydroxypropyl-cellulose films. European Journal of Pharmaceutical Sciences, 2013, 48, 240-248.	1.9	53
14	Microstructural, mechanical and mass transport properties of isotropic and capillary alginate gels. Soft Matter, 2014, 10, 357-366.	1.2	52
15	New release cell for NMR microimaging of tablets. International Journal of Pharmaceutics, 2007, 342, 105-114.	2.6	46
16	Period Times and Helix Alignment during the Cyclic Migration of DNA in Electrophoresis Gels Studied with Fluorescence Microscopy. Macromolecules, 1995, 28, 4441-4454.	2.2	44
17	A mechanistic modelling approach to polymer dissolution using magnetic resonance microimaging. Journal of Controlled Release, 2010, 147, 232-241.	4.8	43
18	Effect of ethanol on the water permeability of controlled release films composed of ethyl cellulose and hydroxypropyl cellulose. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 76, 428-432.	2.0	41

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19	The Impact of Dose and Solubility of Additives on the Release from HPMC Matrix Tabletsâ€"Identifying Critical Conditions. Pharmaceutical Research, 2009, 26, 1496-1503.	1.7	40
20	The effect of substitution pattern of HPMC on polymer release from matrix tablets. International Journal of Pharmaceutics, 2010, 389, 147-156.	2.6	37
21	Therapy for the individual: Towards patient integration into the manufacturing and provision of pharmaceuticals. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 149, 58-76.	2.0	37
22	Polymers in pharmaceutical additive manufacturing: A balancing act between printability and product performance. Advanced Drug Delivery Reviews, 2021, 177, 113923.	6.6	36
23	Periodate oxidation of xylan-based hemicelluloses and its effect on their thermal properties. Carbohydrate Polymers, 2018, 202, 280-287.	5.1	35
24	Influence of optical probing with YOYO on the electrophoretic behavior of the DNA molecule. Electrophoresis, 1996, 17, 642-651.	1.3	34
25	Swelling and polymer erosion for poly(ethylene oxide) tablets of different molecular weights polydispersities. Journal of Pharmaceutical Sciences, 2010, 99, 1225-1238.	1.6	34
26	Mechanistic modelling of drug release from a polymer matrix using magnetic resonance microimaging. European Journal of Pharmaceutical Sciences, 2013, 48, 698-708.	1.9	33
27	Nanocomposites of Polyacrylic Acid Nanogels and Biodegradable Polyhydroxybutyrate for Bone Regeneration and Drug Delivery. Journal of Nanomaterials, 2014, 2014, 1-9.	1.5	32
28	High sugar content impacts microstructure, mechanics and release of calcium-alginate gels. Food Hydrocolloids, 2018, 84, 26-33.	5.6	31
29	Molecular Information on the Dissolution of Polydisperse Polymers:â€‰ Mixtures of Long and Short Poly(ethylene oxide). Journal of Physical Chemistry B, 2005, 109, 11530-11537.	1.2	30
30	Influence of Different Polymer Types on the Overall Release Mechanism in Hydrophilic Matrix Tablets. Molecules, 2009, 14, 2699-2716.	1.7	30
31	Influence of Substitution Pattern on Solution Behavior of Hydroxypropyl Methylcellulose. Biomacromolecules, 2009, 10, 522-529.	2.6	30
32	The consequence of the chemical composition of HPMC in matrix tablets on the release behaviour of model drug substances having different solubility. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 99-110.	2.0	30
33	Effects of HPMC substituent pattern on water up-take, polymer and drug release: An experimental and modelling study. International Journal of Pharmaceutics, 2017, 528, 705-713.	2.6	29
34	Initial studies of water granulation of eight grades of hypromellose (HPMC). International Journal of Pharmaceutics, 2006, 313, 57-65.	2.6	28
35	Experimental and simulated fluorescence depolarization due to energy transfer as tools to study DNA-dye interactions. Biopolymers, 1997, 41, 481-494.	1.2	26
36	Release of theophylline and carbamazepine from matrix tablets â€" Consequences of HPMC chemical heterogeneity. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 78, 470-479.	2.0	26

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37	Tuning the Polymer Release from Hydrophilic Matrix Tablets by Mixing Short and Long Matrix Polymers. Journal of Pharmaceutical Sciences, 2005, 94, 759-769.	1.6	25
38	Model drug release from matrix tablets composed of HPMC with different substituent heterogeneity. International Journal of Pharmaceutics, 2010, 401, 60-67.	2.6	25
39	New insights on how to adjust the release profile from coated pellets by varying the molecular weight of ethyl cellulose in the coating film. International Journal of Pharmaceutics, 2013, 458, 218-223.	2.6	25
40	Characterization of pore structure of polymer blended films used for controlled drug release. Journal of Controlled Release, 2016, 222, 151-158.	4.8	25
41	Fundamental aspects of the non-covalent modification of cellulose via polymer adsorption. Advances in Colloid and Interface Science, 2021, 298, 102529.	7.0	24
42	Binding of Intercalating and Groove-Binding Cyanine Dyes to Bacteriophage T5. Journal of Physical Chemistry B, 2007, 111, 1139-1148.	1.2	23
43	Thermoplastic and Flexible Films from Arabinoxylan. ACS Applied Polymer Materials, 2019, 1, 1443-1450.	2.0	23
44	DAPI Staining of DNA:â€‰ Effect of Change in Charge, Flexibility, and Contour Length on Orientational Dynamics and Mobility of the DNA during Agarose Gel Electrophoresis. The Journal of Physical Chemistry, 1996, 100, 3252-3263.	2.9	22
45	Swellable Hydrogel-based Systems for Controlled Drug Delivery. , 0, , .		22
46	Identification and qualitative characterization of high and low lignin lines from an oat TILLING population. Industrial Crops and Products, 2014, 59, 1-8.	2.5	21
47	Mathematical modelling of the drug release from an ensemble of coated pellets. British Journal of Pharmacology, 2017, 174, 1797-1809.	2.7	20
48	Determination of the release mechanism of Theophylline from pellets coated with Surelease Â® â€"A water dispersion of ethyl cellulose. International Journal of Pharmaceutics, 2017, 528, 345-353.	2.6	20
49	Water vapor mass transport across nanofibrillated cellulose films: effect of surface hydrophobization. Cellulose, 2018, 25, 347-356.	2.4	20
50	Relating solubility data of parabens in liquid PEG 400 to the behaviour of PEG 4000-parabens solid dispersions. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 73, 260-268.	2.0	19
51	Dissolution of cellulose using a combination of hydroxide bases in aqueous solution. Cellulose, 2020, 27, 101-112.	2.4	19
52	Increased water transport in PDMS silicone films by addition of excipients. Acta Biomaterialia, 2012, 8, 579-588.	4.1	18
53	Modeling capillary formation in calcium and copper alginate gels. Materials Science and Engineering C, 2016, 58, 442-449.	3.8	18
54	Altered Thermal and Mechanical Properties of Spruce Galactoglucomannan Films Modified with an Etherification Reaction. Biomacromolecules, 2020, 21, 1832-1840.	2.6	18

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55	The influence of HPMC substitution pattern on solid-state properties. Carbohydrate Polymers, 2010, 82, 1074-1081.	5.1	17
56	Dynamics of capillary transport in semi-solid channels. Soft Matter, 2017, 13, 2562-2570.	1.2	17
57	Preparation and evaluation of a freeze-dried oral killed cholera vaccine formulation. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 79, 508-518.	2.0	16
58	Dissolution Rate Enhancement of Parabens in PEG Solid Dispersions and Its Influence on the Release from Hydrophilic Matrix Tablets. Journal of Pharmaceutical Sciences, 2011, 100, 275-283.	1.6	16
59	Swelling and mass transport properties of nanocellulose-HPMC composite films. Materials and Design, 2017, 122, 414-421.	3.3	16
60	High Performance Polysodium Acrylate Superabsorbents Utilizing Microfibrillated Cellulose to Augment Gel Properties. Soft Materials, 2010, 8, 207-225.	0.8	15
61	Effect of protein release rates from tablet formulations on the immune response after sublingual immunization. European Journal of Pharmaceutical Sciences, 2012, 47, 695-700.	1.9	15
62	High Content Solid Dispersions for Dose Window Extension: A Basis for Design Flexibility in Fused Deposition Modelling. Pharmaceutical Research, 2020, 37, 9.	1.7	15
63	A mechanistic approach to explain the relation between increased dispersion of surface modified cellulose nanocrystals and final porosity in biodegradable films. European Polymer Journal, 2014, 57, 160-168.	2.6	14
64	Understanding the adhesion phenomena in carbohydrate-hydrogel-based systems: Water up-take, swelling and elastic detachment. Carbohydrate Polymers, 2015, 131, 41-49.	5.1	14
65	Gene Expression Profiling of Peri-Implant Healing of PLGA-Li+ Implants Suggests an Activated Wnt Signaling Pathway In Vivo. PLoS ONE, 2014, 9, e102597.	1.1	14
66	An overview of the transport of liquid molecules through structured polymer films, barriers and composites â€" Experiments correlated to structure-based simulations. Advances in Colloid and Interface Science, 2018, 256, 48-64.	7.0	13
67	Controlled Drug Release by the Pore Structure in Polydimethylsiloxane Transdermal Patches. Polymers, 2020, 12, 1520.	2.0	13
68	Independent Tailoring of Dose and Drug Release via a Modularized Product Design Concept for Mass Customization. Pharmaceutics, 2020, 12, 771.	2.0	13
69	Drug delivery from hydrogels: A general framework for the release modeling. Current Drug Delivery, 2016, 13, 1-1.	0.8	13
70	Screening of hydrogen bonds in modified cellulose acetates with alkyl chain substitutions. Carbohydrate Polymers, 2022, 285, 119188.	5.1	13
71	The influence of the molecular weight of the water-soluble polymer on phase-separated films for controlled release. International Journal of Pharmaceutics, 2016, 511, 223-235.	2.6	12
72	Influence of Drug Load on the Printability and Solid-State Properties of 3D-Printed Naproxen-Based Amorphous Solid Dispersion. Molecules, 2021, 26, 4492.	1.7	12

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73	Osmotic-driven mass transport of water: Impact on the adhesiveness of hydrophilic polymers. Journal of Colloid and Interface Science, 2010, 341, 255-260.	5.0	11
74	Permeability of Porous Poly(3-hydroxybutyrate) Barriers of Single and Bilayer Type for Implant Applications. International Journal of Polymer Science, 2014, 2014, 1-8.	1.2	11
75	The importance of the molecular weight of ethyl cellulose on the properties of aqueous-based controlled release coatings. International Journal of Pharmaceutics, 2017, 519, 157-164.	2.6	11
76	Probing Interactions in Combined Hydroxide Base Solvents for Improving Dissolution of Cellulose. Polymers, 2020, 12, 1310.	2.0	11
77	Preparation of Porous Poly(3-Hydroxybutyrate) Films by Water-Droplet Templating. Journal of Biomaterials and Nanobiotechnology, 2012, 03, 431-439.	1.0	11
78	Novel mechanistic description of the water granulation process for hydrophilic polymers. Powder Technology, 2008, 188, 139-146.	2.1	10
79	Effect of annealing time and addition of lactose on release of a model substance from EudragitÂ® RS coated pellets produced by a fluidized bed coater. Chemical Engineering Research and Design, 2011, 89, 697-705.	2.7	10
80	Novel nanostructured microfibrillated celluloseâ€“hydroxypropyl methylcellulose films with large one-dimensional swelling and tunable permeability. Carbohydrate Polymers, 2012, 88, 763-771.	5.1	10
81	Modeling the mechanics and the transport phenomena in hydrogels. Computer Aided Chemical Engineering, 2018, 42, 357-383.	0.3	10
82	New features of arabinoxylan ethers revealed by using multivariate analysis. Carbohydrate Polymers, 2019, 204, 255-261.	5.1	10
83	Comparing mono- and divalent DNA groove binding cyanine dyesâ€"Binding geometries, dissociation rates, and fluorescence properties. Biophysical Chemistry, 2006, 122, 195-205.	1.5	8
84	Controlling water permeability of composite films of polylactide acid, cellulose, and xyloglucan. Journal of Applied Polymer Science, 2015, 132, .	1.3	8
85	Enabling modular dosage form concepts for individualized multidrug therapy: Expanding the design window for poorly water-soluble drugs. International Journal of Pharmaceutics, 2021, 602, 120625.	2.6	8
86	Calcium Ion-Induced Structural Changes in Carboxymethylcellulose Solutions and Their Effects on Adsorption on Cellulose Surfaces. Biomacromolecules, 2022, 23, 47-56.	2.6	8
87	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. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 108, 18-24.	2.0	7
88	Oxidation Level and Glycidyl Ether Structure Determine Thermal Processability and Thermomechanical Properties of Arabinoxylan-Derived Thermoplastics. ACS Applied Bio Materials, 2021, 4, 3133-3144.	2.3	7
89	Specific ion effects in the adsorption of carboxymethyl cellulose on cellulose: The influence of industrially relevant divalent cations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 127006.	2.3	7
90	Permeability of water and oleic acid in composite films of phase separated polypropylene and cellulose stearate blends. Carbohydrate Polymers, 2016, 152, 450-458.	5.1	6

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91	Microcellular foaming of arabinoxylan and PEGylated arabinoxylan with supercritical CO2. Carbohydrate Polymers, 2018, 181, 442-449.	5.1	6
92	Hydrophobization of arabinoxylan with n-butyl glycidyl ether yields stretchable thermoplastic materials. International Journal of Biological Macromolecules, 2021, 188, 491-500.	3.6	6
93	Stickâ€“slip motion and controlled filling speed by the geometric design of soft micro-channels. Journal of Colloid and Interface Science, 2018, 524, 139-147.	5.0	5
94	Side chains affect the melt processing and stretchability of arabinoxylan biomass-based thermoplastic films. Chemosphere, 2022, 294, 133618.	4.2	5
95	Mass Transport of Lignin in Confined Pores. Polymers, 2022, 14, 1993.	2.0	5
96	Simulations of the overshoot in the build-up of orientation of long DNA during gel electropohoresis based on a distribution of oscillation times. Electrophoresis, 1996, 17, 1425-1435.	1.3	4
97	Evaluation of Carboxymethyl-Hexanoyl Chitosan as a Protein Nanocarrier. Nanomaterials and Nanotechnology, 2013, 3, 7.	1.2	4
98	Soft Gelatin Films Modified with Cellulose Acetate Phthalate Pseudolatex Dispersionâ€"Structure and Permeability. Polymers, 2018, 10, 981.	2.0	4
99	Microscopic Studies on the Migration Mechanism. Chromatographia CE Series, 1997, , 67-89.	0.1	4
100	Effect of calcium neutralization on elastic and swelling properties of crosslinked poly(acrylic acid) - correlation to inhomogeneities and phase behaviour. E-Polymers, 2009, 9, .	1.3	3
101	New insights on the influence of manufacturing conditions and molecular weight on phase-separated films intended for controlled release. International Journal of Pharmaceutics, 2018, 536, 261-271.	2.6	3
102	Prototype Gastro-Resistant Soft Gelatin Films and Capsulesâ€"Imaging and Performance In Vitro. Materials, 2020, 13, 1771.	1.3	2
103	Scattering studies of the size and structure of cellulose dissolved in aqueous hydroxide base solvents. Carbohydrate Polymers, 2021, 274, 118634.	5.1	2
104	N2Oâ€“Assisted Siphon Foaming of Modified Galactoglucomannans With Cellulose Nanofibers. Frontiers in Chemical Engineering, 2021, 3, .	1.3	0