Heloise Therien-Aubin

List of Publications by Year
in descending order

68 papers	3,356 citations	186265 28 h-index	144013 57 g-index
72 all docs	72 docs citations	72 times ranked	4888 citing authors

#	Article	IF	Citations
1	Polymer nano-systems for the encapsulation and delivery of active biomacromolecular therapeutic agents. Chemical Society Reviews, 2022, 51, 128-152.	38.1	52
2	Glycerolâ€Based Polyurethane Nanoparticles Reduce Friction and Wear of Lubricant Formulations. Macromolecular Materials and Engineering, 2022, 307, .	3.6	5
3	Nanoconfinement in miniemulsion increases reaction rates of thiolâ€“ene photopolymerization and yields high molecular weight polymers. Polymer Chemistry, 2022, 13, 2831-2841.	3.9	5
4	Behavior of colloidal gels made of thermoresponsive anisotropic nanoparticles. Scientific Reports, 2022, 12, .	3.3	2
5	Controlling the semi-permeability of protein nanocapsules influences the cellular response to macromolecular payloads. Journal of Materials Chemistry B, 2021, 9, 8389-8398.	5.8	4
6	Self-sustaining enzyme nanocapsules perform on-site chemical reactions. Nanoscale, 2021, 13, 4051-4059.	5.6	11
7	Selective Oxidation of Polysulfide Latexes to Produce Polysulfoxide and Polysulfone in a Waterborne Environment. Macromolecules, 2021, 54, 3659-3667.	4.8	16
8	Interplay of electrochemical and electrical effects induces structural transformations in electrocatalysts. Nature Catalysis, 2021, 4, 479-487.	34.4	68
9	Bio-Orthogonal Nanogels for Multiresponsive Release. Biomacromolecules, 2021, 22, 2976-2984.	5.4	7
10	Nanofibrous Photocatalytic Membranes Based on Tailored Anisotropic Gold/Ceria Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 37578-37588.	8.0	12
11	Waterâ€Soluble Photoinitiators from Dimethylaminoâ€Substituted Monoacylphosphine Oxide for Hydrogel and Latex Preparation. Macromolecular Chemistry and Physics, 2021, 222, 2100217.	2.2	13
12	Tailoring the mechanoresponsive release from silica nanocapsules. Nanoscale, 2021, 13, 15415-15421.	5.6	5
13	Plasmonic and Semiconductor Nanoparticles Interfere with Stereolithographic 3D Printing. ACS Applied Materials & Interfaces, 2020, 12, 50834-50843.	8.0	9
14	Oneâ€Step Generation of Coreâ€“Gapâ€“Shell Microcapsules for Stimuliâ€Responsive Biomolecular Sensing. Advanced Functional Materials, 2020, 30, 2006019.	14.9	17
15	Responsive Colloidosomes with Triple Function for Anticorrosion. ACS Applied Materials & Interfaces, 2020, 12, 42129-42139.	8.0	27
16	Glass Transition of Disentangled and Entangled Polymer Melts: Single-Chain-Nanoparticles Approach. Macromolecules, 2020, 53, 7312-7321.	4.8	25
17	Impact of the Solvent Quality on the Local Dynamics of Soft and Swollen Polymer Nanoparticles Functionalized with Polymer Chains. Macromolecules, 2020, 53, 7561-7569.	4.8	6
18	Influence of the Architecture of Soft Polymer-Functionalized Polymer Nanoparticles on Their Dynamics in Suspension. Polymers, 2020, 12, 1844.	4.5	5

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19	Polysaccharide-Based pH-Responsive Nanocapsules Prepared with Bio-Orthogonal Chemistry and Their Use as Responsive Delivery Systems. Biomacromolecules, 2020, 21, 2764-2771.	5.4	17
20	Polymer-functionalized polymer nanoparticles and their behaviour in suspensions. Polymer Chemistry, 2020, 11, 2119-2128.	3.9	21
21	Dynamics of Soft and Hairy Polymer Nanoparticles in a Suspension by NMR Relaxation. Macromolecules, 2020, 53, 844-851.	4.8	14
22	Shaping the Assembly of Superparamagnetic Nanoparticles. ACS Nano, 2019, 13, 3015-3022.	14.6	64
23	A Reversible Proton Generator with On/Off Thermoswitch. Macromolecular Rapid Communications, 2019, 40, 1800713.	3.9	6
24	Gold nanocolloidâ€“protein interactions and their impact on Î²-sheet amyloid fibril formation. RSC Advances, 2018, 8, 980-986.	3.6	12
25	Largeâ€Scale Preparation of Polymer Nanocarriers by Highâ€Pressure Microfluidization. Macromolecular Materials and Engineering, 2018, 303, 1700505.	3.6	21
26	Nanozymes in Nanofibrous Mats with Haloperoxidase-like Activity To Combat Biofouling. ACS Applied Materials & Interfaces, 2018, 10, 44722-44730.	8.0	46
27	Comblike Ionic Complexes of Hyaluronic Acid and Alkanoylcholine Surfactants as a Platform for Drug Delivery Systems. Biomacromolecules, 2018, 19, 3669-3681.	5.4	6
28	NMR Imaging for the Study of Drug Tablets for Controlled Release. , 2018, , 827-840.		0
29	Supramolecular Nanofibrillar Thermoreversible Hydrogel for Growth and Release of Cancer Spheroids. Angewandte Chemie - International Edition, 2017, 56, 6083-6087.	13.8	66
30	Supramolecular Nanofibrillar Thermoreversible Hydrogel for Growth and Release of Cancer Spheroids. Angewandte Chemie, 2017, 129, 6179-6183.	2.0	11
31	Composite Cholesteric Nanocellulose Films with Enhanced Mechanical Properties. Chemistry of Materials, 2017, 29, 789-795.	6.7	64
32	Two-dimensional arrays of cell-laden polymer hydrogel modules. Biomicrofluidics, 2016, 10, 014110.	2.4	12
33	Linear assembly of patchy and non-patchy nanoparticles. Faraday Discussions, 2016, 191, 189-204.	3.2	26
34	Surface patterning of nanoparticles with polymer patches. Nature, 2016, 538, 79-83.	27.8	257
35	Temperature-Responsive Nanofibrillar Hydrogels for Cell Encapsulation. Biomacromolecules, 2016, 17, 3244-3251.	5.4	64
36	Colloidal cholesteric liquid crystal in spherical confinement. Nature Communications, 2016, 7, 12520.	12.8	157

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37	NMR Imaging for the Study of Drug Tablets for Controlled Release. , 2016, , 1-14.		0
38	Controlling biofouling of reverse osmosis membranes through surface modification via grafting patterned polymer brushes. Journal of Water Reuse and Desalination, 2015, 5, 326-334.	2.3	18
39	An Exploratory Microfluidic Approach to Photopolymerized Polymerâ€inorganic Nanocomposite Films. Macromolecular Materials and Engineering, 2015, 300, 1071-1078.	3.6	1
40	Coassembly of Nanorods and Nanospheres in Suspensions and in Stratified Films. Angewandte Chemie - International Edition, 2015, 54, 5618-5622.	13.8	53
41	Structure and properties of composite films formed by cellulose nanocrystals and charged latex nanoparticles. Nanoscale, 2015, 7, 6612-6618.	5.6	44
42	Ion-Mediated Gelation of Aqueous Suspensions of Cellulose Nanocrystals. Biomacromolecules, 2015, 16, 2455-2462.	5.4	173
43	Shape transformations of soft matter governed by bi-axial stresses. Soft Matter, 2015, 11, 4600-4605.	2.7	37
44	Supramolecular Nanofibrillar Polymer Hydrogels. Advances in Polymer Science, 2015, , 167-208.	0.8	24
45	Coassembly of Gold Nanoparticles and Cellulose Nanocrystals in Composite Films. Langmuir, 2015, 31, 5033-5041.	3.5	61
46	Copolymerization of Metal Nanoparticles: A Route to Colloidal Plasmonic Copolymers. Angewandte Chemie - International Edition, 2014, 53, 2648-2653.	13.8	77
47	Structural and Optical Properties of Self-Assembled Chains of Plasmonic Nanocubes. Nano Letters, 2014, 14, 6314-6321.	9.1	92
48	Microfluidic Generation of Composite Biopolymer Microgels with Tunable Compositions and Mechanical Properties. Biomacromolecules, 2014, 15, 2419-2425.	5.4	36
49	Control of biofouling on reverse osmosis polyamide membranes modified with biocidal nanoparticles and antifouling polymer brushes. Journal of Materials Chemistry B, 2014, 2, 1724.	5.8	164
50	Structural Transitions in Nanoparticle Assemblies Governed by Competing Nanoscale Forces. Journal of the American Chemical Society, 2013, 135, 10262-10265.	13.7	100
51	Improved antifouling properties of polymer membranes using a â€˜layer-by-layerâ€™ mediated method. Journal of Materials Chemistry B, 2013, 1, 5651.	5.8	35
52	Nanofibrillar thermoreversible micellar microgels. Soft Matter, 2013, 9, 2380.	2.7	18
53	Three-dimensional shape transformations of hydrogel sheets induced by small-scale modulation of internal stresses. Nature Communications, 2013, 4, 1586.	12.8	518
54	Multiple Shape Transformations of Composite Hydrogel Sheets. Journal of the American Chemical Society, 2013, 135, 4834-4839.	13.7	302

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55	Colloidal analogs of molecular chain stoppers. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18775-18779.	7.1	67
56	Controlling the Degree of Polymerization, Bond Lengths, and Bond Angles of Plasmonic Polymers. Journal of the American Chemical Society, 2012, 134, 18853-18859.	13.7	68
57	NMR Imaging and Its Application in the Study of Pharmaceutical Tablets. ACS Symposium Series, 2011, , 441-457.	0.5	0
58	Fouling-resistant polymer brush coatings. Polymer, 2011, 52, 5419-5425.	3.8	61
59	Shape memory properties of main chain bile acids polymers. Polymer, 2010, 51, 22-25.	3.8	19
60	Effect of molecular architecture on the self-diffusion of polymers in aqueous systems: A comparison of linear, star, and dendritic poly(ethylene glycol)s. Polymer, 2010, 51, 2345-2350.	3.8	10
61	NMR spectroscopy and imaging studies of pharmaceutical tablets made of starch. Carbohydrate Polymers, 2009, 75, 369-379.	10.2	46
62	Diffusion of molecular probes and the effects of their interactions with polymer matrices as studied by pulsed-field gradient NMR spectroscopy. Canadian Journal of Chemistry, 2008, 86, 579-585.	1.1	5
63	Membrane Formation and Drug Loading Effects in High Amylose Starch Tablets Studied by NMR Imaging. Biomacromolecules, 2008, 9, 1248-1254.	5.4	22
64	Effect of Ionic Binding on the Self-Diffusion of Anionic Dendrimers and Hydrophilic Polymers in Aqueous Systems as Studied by Pulsed Gradient NMR Techniques. Macromolecules, 2007, 40, 3644-3649.	4.8	15
65	Study of hydration of cross-linked high amylose starch by solid state 13C NMR spectroscopy. Carbohydrate Research, 2007, 342, 1525-1529.	2.3	25
66	Water Diffusion in Drug Delivery Systems Made of High-Amylose Starch as Studied by NMR Imaging. ACS Symposium Series, 2006, , 105-120.	0.5	0
67	Imaging of High-Amylose Starch Tablets. 3. Initial Diffusion and Temperature Effects. Biomacromolecules, 2005, 6, 3367-3372.	5.4	36
68	Solute Size Effects on the Diffusion in Biofilms ofStreptococcus mutans. Biofouling, 2004, 20, 189-201.	2.2	29