FranÃ§oise M Winnik

List of Publications by Year
in descending order

126 papers	13,848 citations	81900 39 h-index	21540 114 g-index
130 all docs	130 docs citations	130 times ranked	16078 citing authors

#	Article	IF	Citations
1	Heat-Induced Flower Nanogels of Both Cholesterol End-Capped Poly(N-isopropylacrylamide)s in Water. Langmuir, 2022, 38, 5218-5225.	3.5	4
2	Probing interfacial interactions and dynamics of polymers enclosed in boron nitride nanotubes. Journal of Polymer Science, 2022, 60, 233-243.	3.8	0
3	Synthesis of New Thermoresponsive Polymers Possessing the Dense 1,2,3-Triazole Backbone. Langmuir, 2022, 38, 5156-5165.	3.5	7
4	Comparative Thermodynamic Studies of the Micellization of Amphiphilic Block Copolymers before and after Cyclization. Langmuir, 2022, 38, 5033-5039.	3.5	6
5	Phase Separation and pH-Dependent Behavior of Four-Arm Star-Shaped Porphyrin-PNIPAM₄ Conjugates. Macromolecules, 2022, 55, 2109-2122.	4.8	6
6	Inert-living matter, when cells and beads play together. Communications Physics, 2021, 4, .	5.3	4
7	High-Sensitivity Microcalorimetry and Gel Permeation Chromatography in Tandem Reveal the Complexity of the Synthesis of Poly-(2-isopropyl-2-oxazoline) Stars. Macromolecules, 2021, 54, 6161-6170.	4.8	2
8	Enthalpy of the Complexation in Electrolyte Solutions of Polycations and Polyzwitterions of Different Structures and Topologies. Macromolecules, 2021, 54, 6678-6690.	4.8	6
9	Azopyridine: a smart photo- and chemo-responsive substituent for polymers and supramolecular assemblies. Polymer Chemistry, 2020, 11, 5955-5961.	3.9	18
10	The Two Phase Transitions of Hydrophobically End-Capped Poly(N-isopropylacrylamide)s in Water. Macromolecules, 2020, 53, 5105-5115.	4.8	12
11	Recent Highlights on Interfaces from India: A Virtual Issue. Langmuir, 2020, 36, 479-480.	3.5	0
12	Theoretical Study of the Wavelength Selection for the Photocleavage of Coumarinâ€caged Dâ€luciferin. Photochemistry and Photobiology, 2020, 96, 805-814.	2.5	2
13	Polymeric Nanoparticles Limit the Collective Migration of Cellular Aggregates. Langmuir, 2019, 35, 7396-7404.	3.5	9
14	Spreading of Cell Aggregates on Zwitterion-Modified Chitosan Films. Langmuir, 2019, 35, 1902-1908.	3.5	2
15	Poly(2-propyl-2-oxazoline)s in Aqueous Methanol: To Dissolve or not to Dissolve. Macromolecules, 2019, 52, 6361-6368.	4.8	9
16	Light, temperature, and pH control of aqueous azopyridine-terminated poly(N-isopropylacrylamide) solutions. Polymer Chemistry, 2019, 10, 5080-5086.	3.9	14
17	Dehydration, Micellization, and Phase Separation of Thermosensitive Polyoxazoline Star Block Copolymers in Aqueous Solution. Macromolecules, 2019, 52, 935-944.	4.8	22
18	Poly(2-isopropyl-2-oxazoline)-b-poly(lactide) (PiPOx-b-PLA) Nanoparticles in Water: Interblock van der Waals Attraction Opposes Amphiphilic Phase Separation. Macromolecules, 2019, 52, 1317-1326.	4.8	7

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19	pH-Dependent Morphology and Photoresponse of Azopyridine-Terminated Poly(N-isopropylacrylamide) Nanoparticles in Water. Macromolecules, 2019, 52, 2939-2948.	4.8	17
20	Preface to The 15th Pacific Polymer Conference (PPC-15) Virtual Issue. Langmuir, 2019, 35, 4413-4414.	3.5	0
21	Application Call: Inaugural Langmuir Early Career Advisory Board. Langmuir, 2019, 35, 3231-3231.	3.5	1
22	Phototropic Multiresponsive Active Nanogels. Macromolecular Rapid Communications, 2019, 40, 1900479.	3.9	2
23	Thermoresponsive Pentablock Copolymer on Silica: Temperature Effects on Adsorption, Surface Forces, and Friction. Langmuir, 2019, 35, 653-661.	3.5	3
24	Temperature-Controlled Interactions between Poly(N-isopropylacrylamide) Mesoglobules Probed by Fluorescence. Macromolecules, 2018, 51, 1946-1956.	4.8	2
25	Fast and effective mitochondrial delivery of Ï‰-Rhodamine-B-polysulfobetaine-PEG copolymers. Scientific Reports, 2018, 8, 1128.	3.3	19
26	Inversion of crystallization rates in miscible block copolymers of poly(lactide)-block-poly(2-isopropyl-2-oxazoline). Polymer Chemistry, 2018, 9, 1848-1856.	3.9	5
27	Temperature response of aqueous solutions of pyrene endâ€labeled poly(Nâ€isopropylacrylamide)s probed by steadyâ€state and timeâ€resolved fluorescence. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 308-318.	2.1	9
28	Editorial. Langmuir, 2018, 34, 15621-15621.	3.5	1
29	Highlights of the Langmuir 2018 Editorial Advisory Board. Langmuir, 2018, 34, 12233-12233.	3.5	1
30	Synthesis and quantitative characterization of coumarin-caged D-luciferin. Journal of Photochemistry and Photobiology B: Biology, 2018, 189, 81-86.	3.8	7
31	ACS Virtual Issue on Multicomponent Systems: Absorption, Adsorption, and Diffusion. Journal of Chemical & Engineering Data, 2018, 63, 3651-3651.	1.9	9
32	Encapsulation and Delivery of Neutrophic Proteins and Hydrophobic Agents Using PMOXAâ€“PDMSâ€“PMOXA Triblock Polymersomes. ACS Omega, 2018, 3, 13882-13893.	3.5	32
33	Effect of solvent quality and chain density on normal and frictional forces between electrostatically anchored thermoresponsive diblock copolymer layers. Journal of Colloid and Interface Science, 2017, 487, 88-96.	9.4	14
34	Small-angle X-ray scattering from the concentrated bulk phase separated from an amphiphilic block-copolymer solution. Polymer Journal, 2017, 49, 385-389.	2.7	2
35	Transitionâ€Metalâ€Doped NIRâ€Emitting Silicon Nanocrystals. Angewandte Chemie, 2017, 129, 6253-6256.	2.0	3
36	Nonequilibrium Liquidâ€“Liquid Phase Separation of Poly(N-isopropylacrylamide) in Water/Methanol Mixtures. Macromolecules, 2017, 50, 4446-4453.	4.8	14

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37	Macromol. Biosci. 2/2017. Macromolecular Bioscience, 2017, 17, .	4.1	0
38	Transitionâ€Metalâ€Doped NIRâ€Emitting Silicon Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 6157-6160.	13.8	35
39	A one-pot synthesis of water soluble highly fluorescent silica nanoparticles. Journal of Materials Chemistry B, 2017, 5, 1363-1370.	5.8	49
40	Polysulfobetaine-surfactant solutions and their use in stabilizing hydrophobic compounds in saline solution. Polymer, 2017, 127, 77-87.	3.8	15
41	Stability and binding affinity of DNA/chitosan complexes by polyanion competition. Carbohydrate Polymers, 2017, 176, 167-176.	10.2	27
42	How gluttonous cell aggregates clear substrates coated with microparticles. Scientific Reports, 2017, 7, 15729.	3.3	4
43	Refolding of Aggregation-Prone ScFv Antibody Fragments Assisted by Hydrophobically Modified Poly(sodium acrylate) Derivatives. Macromolecular Bioscience, 2017, 17, 1600213.	4.1	1
44	Thermal response of a PVCLâ€“HA conjugate. Journal of Polymer Science Part A, 2016, 54, 425-436.	2.3	7
45	Nanostickers for cells: a model study using cellâ€“nanoparticle hybrid aggregates. Soft Matter, 2016, 12, 7902-7907.	2.7	13
46	Effect of chain architecture on the phase transition of star and cyclic poly(N-isopropylacrylamide) in water. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2059-2068.	2.1	27
47	Membrane Translocation and Organelle-Selective Delivery Steered by Polymeric Zwitterionic Nanospheres. Biomacromolecules, 2016, 17, 1523-1535.	5.4	32
48	Functional double-shelled silicon nanocrystals for two-photon fluorescence cell imaging: spectral evolution and tuning. Nanoscale, 2016, 8, 9009-9019.	5.6	58
49	Poly(Nâ€isopropylacrylamide) Phase Diagrams: Fifty Years of Research. Angewandte Chemie - International Edition, 2015, 54, 15342-15367.	13.8	772
50	Phosphorylcholine-Modified Chitosan Films as Effective Promoters of Cell Aggregation: Correlation Between the Films Properties and Cellular Response. Macromolecular Bioscience, 2015, 15, 490-500.	4.1	6
51	Quantum dot agglomerates in biological media and their characterization by asymmetrical flow field-flow fractionation. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 89, 290-299.	4.3	24
52	Tethered Poly(2-isopropyl-2-oxazoline) Chains: Temperature Effects on Layer Structure and Interactions Probed by AFM Experiments and Modeling. Langmuir, 2015, 31, 3039-3048.	3.5	9
53	Formation of Tethers from Spreading Cellular Aggregates. Langmuir, 2015, 31, 12984-12992.	3.5	2
54	Optimized triazine-mediated amidation for efficient and controlled functionalization of hyaluronic acid. Carbohydrate Polymers, 2015, 116, 42-50.	10.2	19

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55	Synthesis of a poly(N-isopropylacrylamide) charm bracelet decorated with a photomobile Î±-cyclodextrin charm. Polymer Chemistry, 2014, 5, 3656-3665.	3.9	15
56	Temperature-responsive telechelic dipalmitoylglyceryl poly(N-isopropylacrylamide) vesicles: real-time morphology observation in aqueous suspension and in the presence of giant liposomes. Chemical Communications, 2014, 50, 8350-8352.	4.1	11
57	Temperature-Dependent Adsorption and Adsorption Hysteresis of a Thermoresponsive Diblock Copolymer. Langmuir, 2014, 30, 4333-4341.	3.5	14
58	Self-Association of the Thermosensitive Block Copolymer Poly(2-isopropyl-2-oxazoline)-b-poly(N-isopropylacrylamide) in Waterâ€“Methanol Mixtures. Macromolecules, 2014, 47, 6900-6910.	4.8	36
59	Materials nanoarchitectonics: a conspectus for polymer scientists. Polymer International, 2014, 63, 377-380.	3.1	6
60	Cell membrane mimetic films immobilized by synergistic grafting and crosslinking. Soft Matter, 2013, 9, 4501.	2.7	34
61	Quantum Dot Cytotoxicity and Ways To Reduce It. Accounts of Chemical Research, 2013, 46, 672-680.	15.6	286
62	New insights into the effects of molecular weight and end group on the temperature-induced phase transition of poly(N-isopropylacrylamide) in water. Science China Chemistry, 2013, 56, 56-64.	8.2	51
63	Effect of Heating Rate on the Pathway for Vesicle Formation in Salt-Free Aqueous Solutions of Thermosensitive Cationic Diblock Copolymers. Macromolecules, 2013, 46, 2341-2351.	4.8	40
64	The Thermally Induced Aggregation of Immunoglobulin G in Solution is Prevented by Amphipols. Chemistry Letters, 2012, 41, 1380-1382.	1.3	8
65	Self-Association of a Thermosensitive Poly(alkyl-2-oxazoline) Block Copolymer in Aqueous Solution. Macromolecules, 2012, 45, 6111-6119.	4.8	74
66	Tuning the Properties and Functions of 17Î²-Estradiol-polysaccharide Conjugates in Thin Films: Impact of Sample History. Biomacromolecules, 2012, 13, 4098-4108.	5.4	5
67	Dissecting the Mechanism of the Heat-Induced Phase Separation and Crystallization of Poly(2-isopropyl-2-oxazoline) in Water through Vibrational Spectroscopy and Molecular Orbital Calculations. Macromolecules, 2012, 45, 3531-3541.	4.8	80
68	Charge complementary enzymatic reconfigurable polymeric nanostructures. Soft Matter, 2012, 8, 5127.	2.7	11
69	Fluorescence studies of a series of monodisperse telechelic Î±,Ï‰-dipyrenyl poly(N-isopropylacrylamide)s in ethanol and in water. Canadian Journal of Chemistry, 2011, 89, 163-172.	1.1	16
70	Phosphatase/temperature responsive poly(2-isopropyl-2-oxazoline). Polymer Chemistry, 2011, 2, 306-308.	3.9	42
71	Hydration and phase separation of temperature-sensitive water-soluble polymers. Chinese Journal of Polymer Science (English Edition), 2011, 29, 13-21.	3.8	21
72	Interaction of amphiphilic derivatives of chitosan with DPPC (1,2-dipalmitoyl-sn-glycero-3-phosphocholine). Journal of Thermal Analysis and Calorimetry, 2010, 100, 309-313.	3.6	22

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73	Emerging applications of stimuli-responsive polymer materials. Nature Materials, 2010, 9, 101-113.	27.5	5,007
74	Synthesis and Association Behavior of Telechelic Poly(N-isopropylacrylamides) with Azobenzene End Groups. Molecular Crystals and Liquid Crystals, 2010, 529, 60-70.	0.9	10
75	Robust polymeric nanoparticles for the delivery of aminoglycoside antibiotics using carboxymethyldextran-b-poly(ethyleneglycols) lightly grafted with n-dodecyl groups. Soft Matter, 2010, 6, 4504.	2.7	17
76	Non-ionic Thermoresponsive Polymers in Water. Advances in Polymer Science, 2010, , 29-89.	0.8	406
77	One-Step Analysis of DNA/Chitosan Complexes by Field-Flow Fractionation Reveals Particle Size and Free Chitosan Content. Biomacromolecules, 2010, 11, 549-554.	5.4	49
78	Theoretical Modelling of Hierarchically Associated Structures in Hydrophobically Modified PNIPAM Aqueous Solutions on the Basis of a Neutron Scattering Study. Macromolecular Symposia, 2010, 291-292, 177-185.	0.7	4
79	Hydration and Dynamic Behavior of a Cyclic Poly(N-isopropylacrylamide) in Aqueous Solution: Effects of the Polymer Chain Topology. Macromolecules, 2009, 42, 1400-1403.	4.8	83
80	Composite nanomaterials by self-assembly and controlled crystallization of poly(2-isopropyl-2-oxazoline)-grafted polysaccharides. Soft Matter, 2009, 5, 1597.	2.7	47
81	Effect of Topology on the Properties of Poly(Nâ€isopropylacrylamide) in Water and in Bulk. Macromolecular Symposia, 2009, 278, 10-13.	0.7	10
82	An efficient synthesis of telechelic poly (Nâ€isopropylacrylamides) and its application to the preparation of Î±,Ï‰â€dicholesteryl and Î±,Ï‰â€dipyrenyl polymers. Journal of Polymer Science Part A, 2008, 46, 314-326.	2.3	80
83	Temperature-Responsive Polymers in Mixed Solvents: Competitive Hydrogen Bonds Cause Cononsolvency. Physical Review Letters, 2008, 101, 028302.	7.8	223
84	Dual Stimuli-Responsive Nanogels by Self-Assembly of Polysaccharides Lightly Grafted with Thiol-Terminated Poly(N-isopropylacrylamide) Chains. Macromolecules, 2008, 41, 5985-5987.	4.8	124
85	Light Scattering Evidence for the Random Association of Flower Micelles of a Telechelic Hydrophobically Modified Poly(N-isopropylacrylamide) in Dilute Aqueous Solution. Macromolecules, 2008, 41, 292-294.	4.8	24
86	Theoretical Modeling of Associated Structures in Aqueous Solutions of Hydrophobically Modified Telechelic PNIPAM Based on a Neutron Scattering Study. Macromolecules, 2008, 41, 9413-9422.	4.8	79
87	Synthesis of Î±,Ï‰-Dimercapto Poly(N-isopropylacrylamides) by RAFT Polymerization with a Hydrophilic Difunctional Chain Transfer Agent. Macromolecules, 2007, 40, 872-878.	4.8	74
88	Temperature-Induced Phase Transition of Well-Defined Cyclic Poly(N-isopropylacrylamide)s in Aqueous Solution. Macromolecules, 2007, 40, 7069-7071.	4.8	302
89	Impact of End-Group Association and Main-Chain Hydration on the Thermosensitive Properties of Hydrophobically Modified Telechelic Poly(N-isopropylacrylamides) in Water. Macromolecules, 2006, 39, 341-348.	4.8	284
90	Temperature-Dependent Properties of Telechelic Hydrophobically Modified Poly(N-isopropylacrylamides) in Water:Â Evidence from Light Scattering and Fluorescence Spectroscopy for the Formation of Stable Mesoglobules at Elevated Temperatures. Macromolecules, 2006, 39, 3048-3055.	4.8	128

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91	Synthesis and Characterization of Phosphorylcholine-Substituted Chitosans Soluble in Physiological pH Conditions. Biomacromolecules, 2006, 7, 3151-3156.	5.4	70
92	Synthesis and Evaluation of Hydrophobically-Modified Polysaccharides as Oral Delivery Vehicles for Poorly Water-Soluble Drugs. ACS Symposium Series, 2006, , 55-67.	0.5	0
93	Temperature-Sensitive Properties of Poly(N-isopropylacrylamide) Mesoglobules Formed in Dilute Aqueous Solutions Heated above Their Demixing Point. Macromolecules, 2006, 39, 7686-7693.	4.8	129
94	Hydroxypropylcellulose in Oral Drug Delivery. ACS Symposium Series, 2006, , 57-75.	0.5	4
95	Chitosan Nanoparticles for Non-Viral Gene Therapy. ACS Symposium Series, 2006, , 177-200.	0.5	7
96	Facile and Efficient One-Pot Transformation of RAFT Polymer End Groups via a Mild Aminolysis/Michael Addition Sequence. Macromolecular Rapid Communications, 2006, 27, 1648-1653.	3.9	196
97	Microcalorimetric Study of the Temperature-Induced Phase Separation in Aqueous Solutions of Poly(2-isopropyl-2-oxazolines). Macromolecules, 2004, 37, 2556-2562.	4.8	169
98	Versatile Synthesis of End-Functionalized Thermosensitive Poly(2-isopropyl-2-oxazolines). Macromolecules, 2004, 37, 6786-6792.	4.8	156
99	Formation of Colloidally Stable Phase Separated Poly(N-vinylcaprolactam) in Water:Â A Study by Dynamic Light Scattering, Microcalorimetry, and Pressure Perturbation Calorimetry. Macromolecules, 2004, 37, 2268-2274.	4.8	185
100	Stimuli-Responsive Liposome-Polymer Complexes. ACS Symposium Series, 2004, , 26-39.	0.5	5
101	Isothermal titration calorimetry and fluorescence spectroscopy studies of the interactions between surfactants and a phosphorylcholine-based polybetaine. , 2003, , 149-156.		15
102	Gadolinium diethylenetriaminepentaacetic acid hyaluronan conjugates: preparation, properties and applications. Macromolecular Symposia, 2002, 186, 105-110.	0.7	8
103	In Vitro Evaluation of pH-Sensitive Polymer/Niosome Complexes. Biomacromolecules, 2001, 2, 741-749.	5.4	52
104	Do Fluorocarbon, Hydrocarbon, and Polycyclic Aromatic Groups Intermingle? Solution Properties of Pyrene-Labeled Bis(fluorocarbon/hydrocarbon)-Modified Poly(N-isopropylacrylamide). Macromolecules, 2001, 34, 6387-6395.	4.8	59
105	A Look at the Thermodynamics of the Association of Amphiphilic Polyelectrolytes in Aqueous Solutions:â€‰ Strengths and Limitations of Isothermal Titration Calorimetry. Langmuir, 2001, 17, 4416-4421.	3.5	37
106	Volumetric Studies of Aqueous Polymer Solutions Using Pressure Perturbation Calorimetry:â€‰ A New Look at the Temperature-Induced Phase Transition of Poly(N-isopropylacrylamide) in Water and D2O. Macromolecules, 2001, 34, 4130-4135.	4.8	252
107	Solution Properties of Hydrophobically-Modified Copolymers of N-Isopropylacrylamide and N-L-Valine Acrylamide. A Study by Fluorescence Spectroscopy and Microcalorimetry. Polymer Journal, 2001, 33, 277-283.	2.7	8
108	Responsive Polymer/Liposome Complexes: Design, Characterization and Application. ACS Symposium Series, 2000, , 277-297.	0.5	3

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109	Fluorescent Labels: Versatile Tools for Studying the Association of Amphiphilic Polymers in Water. ACS Symposium Series, 2000, , 286-302.	0.5	1
110	Solution Properties of Hydrophobically Modified Copolymers ofN-Isopropylacrylamide andN-Glycine Acrylamide:Â A Study by Microcalorimetry and Fluorescence Spectroscopy. Macromolecules, 2000, 33, 2958-2966.	4.8	64
111	Hydrophobically Modified Poly(sodium 2-acrylamido-2-methylpropanesulfonate)s Bearing Octadecyl Groups:Â A Fluorescence Study of Their Solution Properties in Water. Macromolecules, 1999, 32, 4317-4326.	4.8	49
112	Fluorescence Microscopy Observation of the Adsorption onto Hair of a Fluorescently Labeled Cationic Cellulose Ether. Langmuir, 1999, 15, 3007-3010.	3.5	26
113	Interactions of an Anionic Surfactant with a Fluorescent-Dye-Labeled Hydrophobically-Modified Cationic Cellulose Ether. Langmuir, 1997, 13, 111-114.	3.5	64
114	In Situ Preparation of Nanocrystalline Î³-Fe2O3in Iron(II) Cross-Linked Alginate Gels. Chemistry of Materials, 1996, 8, 1594-1596.	6.7	170
115	Fluorescence methods in the study of the interactions of surfactants with polymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 118, 1-39.	4.7	324
116	Fluorescence Studies of Cellulose Ethers. Advances in Chemistry Series, 1996, , 409-423.	0.6	3
117	Photophysics of preassociated pyrenes in aqueous polymer solutions and in other organized media. Chemical Reviews, 1993, 93, 587-614.	47.7	1,658
118	Interaction of Hydrophobically-Modified Poly-N-isopropylacrylamides with Model Membranesâ€"or Playing a Molecular Accordion. Angewandte Chemie International Edition in English, 1991, 30, 315-318.	4.4	99
119	Methanol-water as a co-nonsolvent system for poly(N-isopropylacrylamide). Macromolecules, 1990, 23, 2415-2416.	4.8	362
120	Fluorescence studies of aqueous solutions of poly(N-isopropylacrylamide) below and above their LCST. Macromolecules, 1990, 23, 233-242.	4.8	391
121	Fundamentals of Molecular Photonics. , 0, , 9-65.		0
122	The Interaction of Light with Materials. , 0, , 151-175.		0
123	The Interaction of Light with Materials II. , 0, , 177-199.		0
124	Photochemical Reactions. , 0, , 67-103.		0
125	Photophysical Processes. , 0, , 105-149.		0
126	Temperature Dependence of the Colloidal Stability of Neutral Amphiphilic Polymers in Water. , 0, , 1-85.		188