

Li-Juan Zhang

List of Publications by Year in descending order

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81
papers

2,691
citations

172457

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docs citations

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times ranked

3241
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembled pH-responsive MPEG-b-(PLA-co-PAE) block copolymer micelles for anticancer drug delivery. <i>Biomaterials</i> , 2012, 33, 6273-6283.	11.4	211
2	Classical theory and electron-scale view of exceptional Cd(II) adsorption onto mesoporous cellulose biochar via experimental analysis coupled with DFT calculations. <i>Chemical Engineering Journal</i> , 2018, 350, 1000-1009.	12.7	125
3	Insights into sulfamethazine adsorption interfacial interaction mechanism on mesoporous cellulose biochar: Coupling DFT/FOT simulations with experiments. <i>Chemical Engineering Journal</i> , 2019, 356, 341-349.	12.7	119
4	pH-sensitive micelles self-assembled from multi-arm star triblock co-polymers poly(μ -caprolactone)-b-poly(2-(diethylamino)ethyl methacrylate)-b-poly(poly(ethylene glycol) methyl) Tj ETQq0 0 OsgBT /Overclock 10 Tf		
5	A multi-functional-group modified cellulose for enhanced heavy metal cadmium adsorption: Performance and quantum chemical mechanism. <i>Chemosphere</i> , 2019, 224, 509-518.	8.2	111
6	pH-responsive unimolecular micelle-gold nanoparticles-drug nanohybrid system for cancer theranostics. <i>Acta Biomaterialia</i> , 2017, 58, 455-465.	8.3	86
7	Insights into the Glyphosate Adsorption Behavior and Mechanism by a MnFe ₂ O ₄ @Cellulose-Activated Carbon Magnetic Hybrid. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15478-15488.	8.0	83
8	Amphiphilic miktoarm star copolymer (PCL) ₃ -(PDEAEMA-b-PPEGMA) ₃ as pH-sensitive micelles in the delivery of anticancer drug. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4008.	5.8	75
9	Folic acid grafted and tertiary amino based pH-responsive pentablock polymeric micelles for targeting anticancer drug delivery. <i>Materials Science and Engineering C</i> , 2018, 82, 1-9.	7.3	71
10	Effect of carbon chain structure on the phthalic acid esters (PAEs) adsorption mechanism by mesoporous cellulose biochar. <i>Chemical Engineering Journal</i> , 2019, 362, 383-391.	12.7	68
11	Doxorubicin-Loaded Unimolecular Micelle-Stabilized Gold Nanoparticles as a Theranostic Nanoplatforam for Tumor-Targeted Chemotherapy and Computed Tomography Imaging. <i>Biomacromolecules</i> , 2017, 18, 3869-3880.	5.4	61
12	Rapid and efficient removal of Cr(VI) by a core-shell magnetic mesoporous polydopamine nanocomposite: roles of the mesoporous structure and redox-active functional groups. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13306-13319.	10.3	61
13	The effects of cryoprotectants on the freeze-drying of ibuprofen-loaded solid lipid microparticles (SLM). <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 69, 750-759.	4.3	57
14	Stimuli-responsive shell cross-linked micelles from amphiphilic four-arm star copolymers as potential nanocarriers for pH/redox-triggered anticancer drug release. <i>Polymer</i> , 2017, 114, 161-172.	3.8	56
15	Liquid-Liquid Equilibria for the Ternary System Methyl Isobutyl Ketone + Water + Hydroquinone. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 2107-2109.	1.9	55
16	Smart pH-sensitive micelles based on redox degradable polymers as DOX/GNPs carriers for controlled drug release and CT imaging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 29-40.	5.0	55
17	Theoretical calculations, molecular dynamics simulations and experimental investigation of the adsorption of cadmium(II) on amidoxime-chelating cellulose. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13714-13726.	10.3	51
18	Mineralization Mechanism of Calcium Phosphates under Three Kinds of Langmuir Monolayers. <i>Langmuir</i> , 2004, 20, 2243-2249.	3.5	49

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19	Delivery of anticancer drug using pH-sensitive micelles from triblock copolymer MPEG-b-PBAE-b-PLA. <i>Materials Science and Engineering C</i> , 2018, 84, 254-262.	7.3	49
20	pH-responsive controlled release of mesoporous silica nanoparticles capped with Schiff base copolymer gatekeepers: Experiment and molecular dynamics simulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 394-403.	5.0	46
21	Key roles of electron cloud density and configuration in the adsorption of sulfonamide antibiotics on carbonaceous materials: Molecular dynamics and quantum chemical investigations. <i>Applied Surface Science</i> , 2021, 536, 147757.	6.1	45
22	pH-responsive micelles based on (PCL) ₂ (PDEA-b-PPEGMA) ₂ miktoarm polymer: controlled synthesis, characterization, and application as anticancer drug carrier. <i>Nanoscale Research Letters</i> , 2014, 9, 243.	5.7	44
23	Amphiphilic β -cyclodextrin-based star-like block copolymer unimolecular micelles for facile in situ preparation of gold nanoparticles. <i>Journal of Polymer Science Part A</i> , 2016, 54, 186-196.	2.3	43
24	Chemical structure and antioxidant activity of a polysaccharide from <i>Siraitia grosvenorii</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1900-1910.	7.5	36
25	pH-sensitive amphiphilic copolymer brush Chol-g-P(HEMA-co-DEAEMA)-b-PPEGMA: synthesis and self-assembled micelles for controlled anti-cancer drug release. <i>RSC Advances</i> , 2014, 4, 40232-40240.	3.6	32
26	Synthesis and evaluation of cholesterol-grafted PEGylated peptides with pH-triggered property as novel drug carriers for cancer chemotherapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 55-64.	5.0	30
27	Multistage pH-responsive mesoporous silica nanohybrids with charge reversal and intracellular release for efficient anticancer drug delivery. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 82-93.	9.4	30
28	Quantitative Structure-Property Relationship (QSPR) Modeling of Drug-Loaded Polymeric Micelles via Genetic Function Approximation. <i>PLoS ONE</i> , 2015, 10, e0119575.	2.5	30
29	Multiple adsorption systems and electron-scale insights into the high efficiency coadsorption of a novel assembled cellulose via experiments and DFT calculations. <i>Journal of Hazardous Materials</i> , 2021, 416, 125748.	12.4	29
30	Controlled construction of gold nanoparticles in situ from β -cyclodextrin based unimolecular micelles for in vitro computed tomography imaging. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 135-144.	9.4	28
31	Nitrite accumulation stability evaluation for low-strength ammonium wastewater by adsorption and biological desorption of zeolite under different operational temperature. <i>Science of the Total Environment</i> , 2020, 704, 135260.	8.0	28
32	Adsorption behavior of Cd (II) on TEMPO-oxidized cellulose in inorganic/ organic complex systems. <i>Environmental Research</i> , 2021, 195, 110848.	7.5	28
33	PDEAEMA-based pH-sensitive amphiphilic pentablock copolymers for controlled anticancer drug delivery. <i>RSC Advances</i> , 2016, 6, 68018-68027.	3.6	25
34	Fabrication of PDEAEMA-based pH-responsive mixed micelles for application in controlled doxorubicin release. <i>RSC Advances</i> , 2017, 7, 27564-27573.	3.6	25
35	Well-defined star polymers for co-delivery of plasmid DNA and imiquimod to dendritic cells. <i>Acta Biomaterialia</i> , 2017, 48, 378-389.	8.3	25
36	Solution pH affects single, sequential and binary systems of sulfamethoxazole and cadmium adsorption by self-assembled cellulose: Promotion or inhibition?. <i>Journal of Hazardous Materials</i> , 2021, 402, 124084.	12.4	25

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37	Multilamellar Nanoparticles Self-Assembled from Opposite Charged Blends: Insights from Mesoscopic Simulation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20649-20661.	3.1	23
38	Systematic design and application of unimolecular star-like block copolymer micelles: a coarse-grained simulation study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26519-26529.	2.8	23
39	Probiotic <i>E. coli</i> Nissle 1917 biofilms on silicone substrates for bacterial interference against pathogen colonization. <i>Acta Biomaterialia</i> , 2017, 50, 353-360.	8.3	22
40	Activated AMPK explains hypolipidemic effects of sulfated low molecular weight guluronate on HepG2 cells. <i>European Journal of Medicinal Chemistry</i> , 2014, 85, 304-310.	5.5	21
41	Poly(2-(diethylamino)ethyl methacrylate)-based, pH-responsive, copolymeric mixed micelles for targeting anticancer drug control release. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 6857-6870.	6.7	21
42	Co-Delivery of Imiquimod and Plasmid DNA via an Amphiphilic pH-Responsive Star Polymer that Forms Unimolecular Micelles in Water. <i>Polymers</i> , 2016, 8, 397.	4.5	20
43	Coating of silicone with mannoside-PAMAM dendrimers to enhance formation of non-pathogenic <i>Escherichia coli</i> biofilms against colonization of uropathogens. <i>Acta Biomaterialia</i> , 2017, 64, 200-210.	8.3	19
44	pH-Induced evolution of surface patterns in micelles assembled from dirhamnolipids: dissipative particle dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9460-9470.	2.8	19
45	Mesoscopic simulations of drug-loaded diselenide crosslinked micelles: Stability, drug loading and release properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110313.	5.0	19
46	Synthesis, characterization and pH-Responsive self-assembly behavior of amphiphilic multiarm star triblock copolymers based on PCL, PDEAEMA, and PEG. <i>Macromolecular Research</i> , 2013, 21, 1011-1020.	2.4	17
47	Adsorption of sulfamethoxazole and sulfadiazine on phosphorus-containing stalk cellulose under different water pH studied by quantitative evaluation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 43246-43261.	5.3	17
48	Systematic Procedures for Formulation Design of Drug-Loaded Solid Lipid Microparticles: Selection of Carrier Material and Stabilizer. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 6091-6100.	3.7	16
49	Hydrazone cross-linked micelles based on redox degradable block copolymer for enhanced stability and controlled drug release. <i>Reactive and Functional Polymers</i> , 2017, 119, 64-74.	4.1	16
50	Adsorption of Organic Compounds by Biomass Chars: Direct Role of Aromatic Condensation (Ring) Technology, 2021, 55, 1594-1603.	10.0	16
51	Dissipative Particle Dynamics Study on Aggregation of MPEGA-PLA Block Polymer Micelles Loading Doxorubicine. <i>Chinese Journal of Chemistry</i> , 2012, 30, 1980-1986.	4.9	15
52	Surfaces presenting β -phenyl mannoside derivatives enable formation of stable, high coverage, non-pathogenic <i>Escherichia coli</i> biofilms against pathogen colonization. <i>Biomaterials Science</i> , 2015, 3, 842-851.	5.4	14
53	Reversible Cross-Linked Mixed Micelles for pH Triggered Swelling and Redox Triggered Degradation for Enhanced and Controlled Drug Release. <i>Pharmaceutics</i> , 2020, 12, 258.	4.5	14
54	A Dissolution-Diffusion Model and Quantitative Analysis of Drug Controlled Release from Biodegradable Polymer Microspheres. <i>Canadian Journal of Chemical Engineering</i> , 2006, 84, 558-566.	1.7	13

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55	Enhanced stability of crosslinked and charged unimolecular micelles from multigeometry triblock copolymers with short hydrophilic segments: dissipative particle dynamics simulation. <i>Soft Matter</i> , 2019, 15, 546-558.	2.7	13
56	Competitive adsorption of methanol co-solvent and dioctyl phthalate on functionalized graphene sheet: Integrated investigation by molecular dynamics simulations and quantum chemical calculations. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 354-363.	9.4	13
57	Effect of Surface Functionalization and Pore Structure Type on the Release Performance of Mesoporous Silica Nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2022, 336, 111862.	4.4	13
58	Precipitation polymerization of 2-hydroxyethyl methacrylate in supercritical carbon dioxide. <i>Polymers for Advanced Technologies</i> , 2012, 23, 529-533.	3.2	12
59	Effect of Degree of Silicification on Silica/Silicic Acid Binding Cd(II) and Its Mechanism. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3718-3727.	2.5	12
60	Simultaneous redox transformation and removal of Cr(VI) and As(V) by polyethyleneimine modified magnetic mesoporous polydopamine nanocomposite: Insights into synergistic effects and mechanisms. <i>Journal of Hazardous Materials</i> , 2022, 439, 129581.	12.4	12
61	QSPR between molecular structures of polymers and micellar properties based on block unit autocorrelation (BUA) descriptors. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 157, 7-15.	3.5	11
62	Polymeric micelles self-assembled from amphiphilic polymers with twin disulfides used as siRNA carriers to enhance the transfection. <i>Materials Science and Engineering C</i> , 2017, 78, 546-552.	7.3	11
63	Optimization of ultrasonic-assisted extraction of pigment from <i>Dioscorea cirrhosa</i> by response surface methodology and evaluation of its stability. <i>RSC Advances</i> , 2019, 9, 1576-1585.	3.6	11
64	Solvent mediated microstructures and release behavior of insulin from pH-sensitive nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 94, 206-212.	5.0	10
65	Dissipative particle dynamics simulation on drug loading/release in polyester-PEG dendrimer. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	10
66	Inter-molecular interactions of phthalic acid esters and multi-stage sorption revealed by experimental investigations and computation simulations. <i>Chemical Engineering Journal</i> , 2022, 431, 134018.	12.7	10
67	Directed Self-Assembly of Patchy Microgels into Anisotropic Nanostructures. <i>Macromolecular Rapid Communications</i> , 2020, 41, 1900505.	3.9	9
68	Amperometric Immunosensor for Prostate Specific Antigen Based on Co-adsorption of Labeled Antibody and Mediator in Nano-Au Modified Chitosan Membrane. <i>Chinese Journal of Chemistry</i> , 2008, 26, 480-484.	4.9	8
69	Self-assembly of cyclic grafted copolymers with rigid rings and their potential as drug nanocarriers. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 114-125.	9.4	8
70	Mesoporous Silica Nanoprodug Encapsulated with Near-Infrared Absorption Dye for Photothermal Therapy Combined with Chemotherapy. <i>ACS Applied Bio Materials</i> , 2021, 4, 8225-8235.	4.6	7
71	Gelation process of nanosilica sol and its mechanism: Molecular dynamics simulation. <i>Chemical Engineering Science</i> , 2020, 216, 115538.	3.8	6
72	Molecular-scale study of Cr(VI) adsorption onto lepidocrocite facets by EXAFS, in situ ATR-FTIR, theoretical frequency calculations and DFT+U techniques. <i>Environmental Science: Nano</i> , 2022, 9, 568-581.	4.3	6

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73	Nitrogen Removal for Liquid-Ammonia Mercerization Wastewater via Partial Nitritation/Anammox Based on Zeolite Sequencing Batch Reactor. <i>Water (Switzerland)</i> , 2020, 12, 2234.	2.7	5
74	Inhibition of organosilane/ATP@HQ self-healing passivator for pyrite oxidation. <i>Chemosphere</i> , 2022, 287, 132342.	8.2	5
75	In-situ IR Monitoring the Synthesis of Amphiphilic Copolymer P(HEMA-co-tBMA) via ARGET ATRP. <i>Chinese Journal of Chemical Engineering</i> , 2014, 22, 1046-1054.	3.5	4
76	The self-assembly behavior of polymer brushes induced by the orientational ordering of rod backbones: a dissipative particle dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5229-5241.	2.8	4
77	Electron-Scale Insights into the Single and Coadsorption Cd(II) Behaviors of a Metal-Nonmetal-Modified Titanium Dioxide. <i>Adsorption Science and Technology</i> , 2021, 2021, 1-15.	3.2	4
78	Quantitative Structure-Property Relationship for pH-Triggered Drug Release Performance of Acid-Responsive Four/Six-Arms Star Polymeric Micelles. <i>Pharmaceutical Research</i> , 2019, 36, 20.	3.5	3
79	Morphological transitions of micelles induced by the block arrangements of copolymer blocks: dissipative particle dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10757-10764.	2.8	2
80	Molecular clusters played an important role in the adsorption of polycyclic aromatic hydrocarbons (PAHs) on carbonaceous materials. <i>Chemosphere</i> , 2022, 302, 134772.	8.2	2
81	Synthesis of pH-Sensitive Amphiphilic Copolymer Brush by the Combination of ARGET ATRP with ROP and Its Self-Assembly Behavior. <i>Acta Chimica Sinica</i> , 2012, 70, 505.	1.4	1