

Mingming Zhang

List of Publications by Year in descending order

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95
papers

4,536
citations

109264

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h-index

110317

64
g-index

96
all docs

96
docs citations

96
times ranked

5054
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of persulfate by swine bone derived biochar: Insight into the specific role of different active sites and the toxicity of acetaminophen degradation pathways. <i>Science of the Total Environment</i> , 2022, 807, 151059.	3.9	25
2	Facile synthesis of Mn, Ce co-doped g-C ₃ N ₄ composite for peroxymonosulfate activation towards organic contaminant degradation. <i>Chemosphere</i> , 2022, 293, 133472.	4.2	41
3	Design of a UCST Polymer with Strong Hydrogen Bonds and Reactive Moieties for Facile Polymer-Protein Hybridization. <i>Biomacromolecules</i> , 2022, 23, 1291-1301.	2.6	10
4	Biodegradable mesoporous nanocomposites with dual-targeting function for enhanced anti-tumor therapy. <i>Journal of Controlled Release</i> , 2022, 341, 383-398.	4.8	22
5	Graphynes: ideal supports of single atoms for electrochemical energy conversion. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3905-3932.	5.2	21
6	Nitrogen-doping coupled with cerium oxide loading co-modified graphitic carbon nitride for highly enhanced photocatalytic degradation of tetracycline under visible light. <i>Chemosphere</i> , 2022, 293, 133648.	4.2	16
7	Degradation of tetracycline by FeNi-LDH/Ti ₃ C ₂ photo-Fenton system in water: From performance to mechanism. <i>Chemosphere</i> , 2022, 294, 133736.	4.2	29
8	Sulfur-Doped g-C ₃ N ₄ -Supported Ni Species with a Wide Temperature Window for Acetylene Semihydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4849-4861.	3.2	12
9	The His23 and Lys79 pair determines the high catalytic efficiency of the inorganic pyrophosphatase of the haloacid dehalogenase superfamily. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022, 1866, 130128.	1.1	1
10	Recent studies on the pharmacological activities and structural modifications of compound K. <i>Mini-Reviews in Medicinal Chemistry</i> , 2022, 22, .	1.1	0
11	Improving the Fenton-like catalytic performance of MnOx-Fe ₃ O ₄ /biochar using reducing agents: A comparative study. <i>Journal of Hazardous Materials</i> , 2021, 406, 124333.	6.5	115
12	Fabrication of P ₁₂ CL-AuNP@BSA core-shell corona nanoparticles for flexible spatiotemporal drug delivery and SERS detection. <i>Biomaterials Science</i> , 2021, 9, 4440-4447.	2.6	5
13	Recent Advance of Transition-Metal-Based Layered Double Hydroxide Nanosheets: Synthesis, Properties, Modification, and Electrocatalytic Applications. <i>Advanced Energy Materials</i> , 2021, 11, 2002863.	10.2	137
14	In Vivo Insulin Peptide Autoantigen Delivery by Mannosylated Sodium Alginate Nanoparticles Delayed but Could Not Prevent the Onset of Type 1 Diabetes in Nonobese Diabetic Mice. <i>Molecular Pharmaceutics</i> , 2021, 18, 1806-1818.	2.3	9
15	Effects of organic ligands on efficiency and stability of perovskite light-emitting diodes. <i>Journal of Materials Science</i> , 2021, 56, 11436-11447.	1.7	5
16	Facile synthesis of CeO ₂ /carbonate doped Bi ₂ O ₂ CO ₃ Z-scheme heterojunction for improved visible-light photocatalytic performance: Photodegradation of tetracycline and photocatalytic mechanism. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 283-294.	5.0	120
17	Rational drug design of benzothiazole-based derivatives as potent signal transducer and activator of transcription 3 (STAT3) signaling pathway inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2021, 216, 113333.	2.6	16
18	MXenes as Superexcellent Support for Confining Single Atom: Properties, Synthesis, and Electrocatalytic Applications. <i>Small</i> , 2021, 17, e2007113.	5.2	52

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19	Enhancing iron redox cycling for promoting heterogeneous Fenton performance: A review. <i>Science of the Total Environment</i> , 2021, 775, 145850.	3.9	114
20	Small dop of comonomer, giant shift of cloud point: Thermo-responsive behavior and mechanism of poly(methylacrylamide) copolymers with an upper critical solution temperature. <i>Journal of Polymer Science</i> , 2021, 59, 1701-1710.	2.0	11
21	Hydrological variation recorded in a subalpine peatland of Northeast Asia since the Little Ice Age and its possible driving mechanisms. <i>Science of the Total Environment</i> , 2021, 772, 144923.	3.9	15
22	Gold nanoparticles-modified MnFe ₂ O ₄ with synergistic catalysis for photo-Fenton degradation of tetracycline under neutral pH. <i>Journal of Hazardous Materials</i> , 2021, 414, 125448.	6.5	140
23	Modulating Repolarization of Tumor-Associated Macrophages with Targeted Therapeutic Nanoparticles as a Potential Strategy for Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2021, 4, 5871-5896.	2.3	8
24	Critical review of advanced oxidation processes in organic wastewater treatment. <i>Chemosphere</i> , 2021, 275, 130104.	4.2	410
25	Molecular engineering towards efficient white-light-emitting perovskite. <i>Nature Communications</i> , 2021, 12, 4890.	5.8	32
26	Influencing factors and strategies of enhancing nanoparticles into tumors in vivo. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 2265-2285.	5.7	94
27	Enhanced visible-light-driven photocatalytic activity of bismuth oxide via the decoration of titanium carbide quantum dots. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 161-173.	5.0	51
28	Discovery of novel pyrazolopyrimidine derivatives as potent mTOR/HDAC bi-functional inhibitors via pharmacophore-merging strategy. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 49, 128286.	1.0	14
29	Facile one-pot synthesis of carbon self-doped graphitic carbon nitride loaded with ultra-low ceric dioxide for high-efficiency environmental photocatalysis: Organic pollutants degradation and hexavalent chromium reduction. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 196-208.	5.0	77
30	Preferentially released miR-122 from cyclodextrin-based star copolymer nanoparticle enhances hepatoma chemotherapy by apoptosis induction and cytotoxics efflux inhibition. <i>Bioactive Materials</i> , 2021, 6, 3744-3755.	8.6	18
31	Recent advances in the application of water-stable metal-organic frameworks: Adsorption and photocatalytic reduction of heavy metal in water. <i>Chemosphere</i> , 2021, 285, 131432.	4.2	111
32	Opportunities and challenges in perovskite LED commercialization. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3795-3799.	2.7	70
33	Self-assembled nanoparticles containing photosensitizer and polycationic brush for synergistic photothermal and photodynamic therapy against periodontitis. <i>Journal of Nanobiotechnology</i> , 2021, 19, 413.	4.2	22
34	Polymerization-Induced Interfacial Self-Assembly: A Powerful Tool for the Synthesis of Micro-sized Hollow Capsules. <i>Macromolecules</i> , 2021, 54, 11238-11247.	2.2	7
35	Anchoring single-unit-cell defect-rich bismuth molybdate layers on ultrathin carbon nitride nanosheet with boosted charge transfer for efficient photocatalytic ciprofloxacin degradation. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 701-713.	5.0	57
36	Sphagnum spore banks in two montane peatlands at different elevations. <i>Wetlands Ecology and Management</i> , 2020, 28, 825-835.	0.7	6

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37	Lakeâ€mire ecosystem transformation and its possible forcing mechanisms in volcanic landform regions: a case study in the Gushantun peatland of northeast China. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 3141-3154.	1.2	10
38	The mechanism of m6A methyltransferase METTL3-mediated autophagy in reversing gefitinib resistance in NSCLC cells by Î²-elemene. <i>Cell Death and Disease</i> , 2020, 11, 969.	2.7	105
39	Construction and application of therapeutic metal-polyphenol capsule for peripheral artery disease. <i>Biomaterials</i> , 2020, 255, 120199.	5.7	63
40	Graphdiyne: A Rising Star of Electrocatalyst Support for Energy Conversion. <i>Advanced Energy Materials</i> , 2020, 10, 2000177.	10.2	100
41	Baicalin Induces Apoptosis and Suppresses the Cell Cycle Progression of Lung Cancer Cells Through Downregulating Akt/mTOR Signaling Pathway. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 602282.	1.6	28
42	Strategy to improve gold nanoparticles loading efficiency on defect-free high silica ZSM-5 zeolite for the reduction of nitrophenols. <i>Chemosphere</i> , 2020, 256, 127083.	4.2	57
43	Recent Advances in the Development of CBP/p300 Bromodomain Inhibitors. <i>Current Medicinal Chemistry</i> , 2020, 27, 5583-5598.	1.2	10
44	Identification of new dual FABP4/5 inhibitors based on a naphthalene-1-sulfonamide FABP4 inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115015.	1.4	7
45	Design, synthesis, and biological evaluation of a new class of histone acetyltransferase p300 inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019, 180, 171-190.	2.6	19
46	The development of Hani peatland in the Changbai mountains (NE China) and its response to the variations of the East Asian summer monsoon. <i>Science of the Total Environment</i> , 2019, 692, 818-832.	3.9	25
47	Multiple charge-carrier transfer channels of Z-scheme bismuth tungstate-based photocatalyst for tetracycline degradation: Transformation pathways and mechanism. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 770-782.	5.0	45
48	Ultrathin oxygen-vacancy abundant WO ₃ decorated monolayer Bi ₂ WO ₆ nanosheet: A 2D/2D heterojunction for the degradation of Ciprofloxacin under visible and NIR light irradiation. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 557-567.	5.0	89
49	A Dissolvable Microneedle Formulation of <i>Bordetella pertussis</i> Subunit Vaccine: Translational Development and Immunological Evaluation in Mice. <i>ACS Applied Bio Materials</i> , 2019, 2, 5053-5061.	2.3	9
50	Black Phosphorus, a Rising Star 2D Nanomaterial in the Postâ€Graphene Era: Synthesis, Properties, Modifications, and Photocatalysis Applications. <i>Small</i> , 2019, 15, e1804565.	5.2	244
51	A Polycationic Brush Mediated Co-Delivery of Doxorubicin and Gene for Combination Therapy. <i>Polymers</i> , 2019, 11, 60.	2.0	14
52	External temperature control of lymphatic drainage of thermo-sensitive nanomaterials. <i>Biomaterials Science</i> , 2019, 7, 750-759.	2.6	1
53	Degradation of naphthalene with magnetic bio-char activate hydrogen peroxide: Synergism of bio-char and Feâ€Mn binary oxides. <i>Water Research</i> , 2019, 160, 238-248.	5.3	335
54	Star-shaped poly(2-aminoethyl methacrylate)s as non-viral gene carriers: Exploring structure-function relationship. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 721-727.	2.5	4

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55	Identification and immunological evaluation of novel TLR2 agonists through structure optimization of Pam3CSK4. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 2784-2800.	1.4	12
56	Multifunctional nanoparticles based on a polymeric copper chelator for combination treatment of metastatic breast cancer. <i>Biomaterials</i> , 2019, 195, 86-99.	5.7	79
57	Genome-Wide Pathway Analysis of Microarray Data Identifies Risk Pathways Related to Salt Stress in <i>Arabidopsis Thaliana</i> . <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018, 10, 566-571.	2.2	4
58	Aptamer based label free thrombin assay based on the use of silver nanoparticles incorporated into self-polymerized dopamine. <i>Mikrochimica Acta</i> , 2018, 185, 253.	2.5	33
59	A general strategy for synthesis of cyclophane-braced peptide macrocycles via palladium-catalysed intramolecular sp ³ C-H arylation. <i>Nature Chemistry</i> , 2018, 10, 540-548.	6.6	180
60	Multi-stimuli-responsive biohybrid nanoparticles with cross-linked albumin coronae self-assembled by a polymer-protein biodynamer. <i>Acta Biomaterialia</i> , 2017, 54, 259-270.	4.1	25
61	Studies on the electrochemical and dopamine sensing properties of AgNP-modified carboxylated cellulose nanocrystal-doped poly(3,4-ethylenedioxythiophene). <i>Ionics</i> , 2017, 23, 3211-3218.	1.2	8
62	Structural insight into inhibition of REV7 protein interaction revealed by docking, molecular dynamics and MM/PBSA studies. <i>RSC Advances</i> , 2017, 7, 27780-27786.	1.7	9
63	Social risky decision-making reveals gender differences in the TPI: A hyperscanning study using functional near-infrared spectroscopy. <i>Brain and Cognition</i> , 2017, 119, 54-63.	0.8	46
64	Gender difference in spontaneous deception: A hyperscanning study using functional near-infrared spectroscopy. <i>Scientific Reports</i> , 2017, 7, 7508.	1.6	48
65	Poly(μ -caprolactone) with pendant natural peptides: an old polymeric biomaterial with new properties. <i>Polymer Chemistry</i> , 2017, 8, 5415-5426.	1.9	10
66	Star-shaped poly(2-aminoethyl methacrylate)s as non-viral gene carriers: structure-function relationship. <i>Journal of Controlled Release</i> , 2017, 259, e167.	4.8	0
67	Fe ₃ O ₄ nanoparticles modified by CD-containing star polymer for MRI and drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 213-221.	2.5	32
68	Polymers for DNA Vaccine Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 108-125.	2.6	44
69	Preparation of a dual cored hepatoma-specific star glycopolymer nanogel via arm-first ATRP approach. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 3653-3664.	3.3	21
70	Design, synthesis and biological evaluation of benzyloxyphenyl-methylaminophenol derivatives as STAT3 signaling pathway inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 2549-2558.	1.4	14
71	Protein Nanogels with Temperature-Induced Reversible Structures and Redox Responsiveness. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 2266-2275.	2.6	23
72	In situ fabrication of PHEMA-BSA core-corona biohybrid particles. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4430-4438.	2.9	15

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73	Stepwise pH-responsive nanoparticles containing charge-reversible pullulan-based shells and poly(β -amino ester)/poly(lactic-co-glycolic acid) cores as carriers of anticancer drugs for combination therapy on hepatocellular carcinoma. <i>Journal of Controlled Release</i> , 2016, 226, 193-204.	4.8	114
74	Total Synthesis of Two Diastereomers of Megastigmane Glycoside Lauroside B. <i>Journal of Carbohydrate Chemistry</i> , 2015, 34, 445-459.	0.4	1
75	Galactose-functionalized multi-responsive nanogels for hepatoma-targeted drug delivery. <i>Nanoscale</i> , 2015, 7, 3137-3146.	2.8	68
76	Thermo-responsiveness and biocompatibility of star-shaped poly[2-(dimethylamino)ethyl methacrylate]- <i>b</i> -poly(sulfobetaine methacrylate) grafted on a β -cyclodextrin core. <i>RSC Advances</i> , 2015, 5, 28133-28140.	1.7	36
77	Temperature/pH dual responsive microgels of crosslinked poly(<i>N</i> -vinylcaprolactam-co-undecenoic acid) as biocompatible materials for controlled release of doxorubicin. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	21
78	Facile synthesis of well-defined cyclodextrin-pendant polymer via ATRP for nanostructure fabrication. <i>RSC Advances</i> , 2014, 4, 30566-30572.	1.7	21
79	A well-defined coil-comb polycationic brush with star polymers as side chains for gene delivery. <i>Polymer Chemistry</i> , 2014, 5, 4670-4678.	1.9	28
80	Anti-tumor drug delivery system based on cyclodextrin-containing pH-responsive star polymer: In vitro and in vivo evaluation. <i>International Journal of Pharmaceutics</i> , 2014, 474, 232-240.	2.6	41
81	Construction of Multifunctionalizable, Core-Cross-Linked Polymeric Nanoparticles via Dynamic Covalent Bond. <i>Macromolecules</i> , 2014, 47, 1999-2009.	2.2	30
82	Synthesis and Self-Assembly of Amphiphilic Janus Laponite Disks. <i>Macromolecules</i> , 2013, 46, 5974-5984.	2.2	59
83	A novel cyclodextrin-containing pH-responsive star polymer for nanostructure fabrication and drug delivery. <i>Polymer Chemistry</i> , 2013, 4, 5086.	1.9	51
84	Discovery of novel inhibitors of signal transducer and activator of transcription 3 (STAT3) signaling pathway by virtual screening. <i>European Journal of Medicinal Chemistry</i> , 2013, 62, 301-310.	2.6	17
85	Identification and characterization of small molecule inhibitors of signal transducer and activator of transcription 3 (STAT3) signaling pathway by virtual screening. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 2225-2229.	1.0	9
86	Interface cross-linked polymeric micelles with mixed coronal chains prepared by RAFT polymerization at the interface. <i>Soft Matter</i> , 2012, 8, 11809.	1.2	14
87	Interface-Directed Self-Assembly of Gold Nanoparticles and Fabrication of Hybrid Hollow Capsules by Interfacial Cross-Linking Polymerization. <i>Langmuir</i> , 2012, 28, 9365-9371.	1.6	33
88	Self-aggregated Nanoparticles of Cholesterol-modified Pullulan Conjugate as a Novel Carrier of Mitoxantrone. <i>Current Nanoscience</i> , 2010, 6, 298-306.	0.7	31
89	Multi-objective evolutionary algorithm based on adaptive discrete Differential Evolution. , 2009, , .		12
90	Controlled polymerization of β -(diethylamino)ethyl methacrylate and its block copolymer with <i>N</i> -isopropylacrylamide by RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3294-3305.	2.5	43

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91	Globus pallidus neuron spike time series prediction based on local-region multi-step forecasting model. , 2008, , .		1
92	In-Situ Polymerization at the Interface of Micelles: A Novel Method to Control Functionality and Morphology. Macromolecular Rapid Communications, 2007, 28, 1051-1056.	2.0	17
93	Synthesis, characterization and application of well-defined environmentally responsive polymer brushes on the surface of colloid particles. Polymer, 2007, 48, 1989-1997.	1.8	147
94	Double-responsive polymer brushes on the surface of colloid particles. Journal of Colloid and Interface Science, 2006, 301, 85-91.	5.0	81
95	Correction to "Design of a UCST Polymer with Strong Hydrogen Bonds and Reactive Moieties for Facile Polymer-Protein Hybridization". Biomacromolecules, 0, , .	2.6	0