# Mingming Zhang

List of Publications by Year
in descending order



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|---|---|---|---|
| 95 papers | 4,536 citations | 109264 35 h-index | 110317 64 g-index |
| 96 all docs | 96 docs citations | 96 times ranked | 5054 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Critical review of advanced oxidation processes in organic wastewater treatment. Chemosphere, 2021, 275, 130104. | 4.2 | 410 |
| 2 | Degradation of naphthalene with magnetic bio-char activate hydrogen peroxide: Synergism of bio-char and Feâ€“Mn binary oxides. Water Research, 2019, 160, 238-248. | 5.3 | 335 |
| 3 | Black Phosphorus, a Rising Star 2D Nanomaterial in the Postâ€Graphene Era: Synthesis, Properties, Modifications, and Photocatalysis Applications. Small, 2019, 15, e1804565. | 5.2 | 244 |
| 4 | A general strategy for synthesis of cyclophane-braced peptide macrocycles via palladium-catalysed intramolecular sp3 Câˆ'H arylation. Nature Chemistry, 2018, 10, 540-548. | 6.6 | 180 |
| 5 | 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 |
| 6 | Gold nanoparticles-modified MnFe2O4 with synergistic catalysis for photo-Fenton degradation of tetracycline under neutral pH. Journal of Hazardous Materials, 2021, 414, 125448. | 6.5 | 140 |
| 7 | Recent Advance of Transitionâ€Metalâ€Based Layered Double Hydroxide Nanosheets: Synthesis, Properties, Modification, and Electrocatalytic Applications. Advanced Energy Materials, 2021, 11, 2002863. | 10.2 | 137 |
| 8 | Facile synthesis of CeO2/carbonate doped Bi2O2CO3 Z-scheme heterojunction for improved visible-light photocatalytic performance: Photodegradation of tetracycline and photocatalytic mechanism. Journal of Colloid and Interface Science, 2021, 588, 283-294. | 5.0 | 120 |
| 9 | Improving the Fenton-like catalytic performance of MnOx-Fe3O4/biochar using reducing agents: A comparative study. Journal of Hazardous Materials, 2021, 406, 124333. | 6.5 | 115 |
| 10 | Stepwise pH-responsive nanoparticles containing charge-reversible pullulan-based shells and poly(Î²-amino ester)/poly(lactic-co-glycolic acid) cores as carriers of anticancer drugs for combination therapy on hepatocellular carcinoma. Journal of Controlled Release, 2016, 226, 193-204. | 4.8 | 114 |
| 11 | Enhancing iron redox cycling for promoting heterogeneous Fenton performance: A review. Science of the Total Environment, 2021, 775, 145850. | 3.9 | 114 |
| 12 | Recent advances in the application of water-stable metal-organic frameworks: Adsorption and photocatalytic reduction of heavy metal in water. Chemosphere, 2021, 285, 131432. | 4.2 | 111 |
| 13 | The mechanism of m6A methyltransferase METTL3-mediated autophagy in reversing gefitinib resistance in NSCLC cells by Î²-elemene. Cell Death and Disease, 2020, 11, 969. | 2.7 | 105 |
| 14 | Graphdiyne: A Rising Star of Electrocatalyst Support for Energy Conversion. Advanced Energy Materials, 2020, 10, 2000177. | 10.2 | 100 |
| 15 | Influencing factors and strategies of enhancing nanoparticles into tumors inÂvivo. Acta Pharmaceutica Sinica B, 2021, 11, 2265-2285. | 5.7 | 94 |
| 16 | Ultrathin oxygen-vacancy abundant WO3 decorated monolayer Bi2WO6 nanosheet: A 2D/2D heterojunction for the degradation of Ciprofloxacin under visible and NIR light irradiation. Journal of Colloid and Interface Science, 2019, 556, 557-567. | 5.0 | 89 |
| 17 | Double-responsive polymer brushes on the surface of colloid particles. Journal of Colloid and Interface Science, 2006, 301, 85-91. | 5.0 | 81 |
| 18 | Multifunctional nanoparticles based on a polymeric copper chelator for combination treatment of metastatic breast cancer. Biomaterials, 2019, 195, 86-99. | 5.7 | 79 |

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|---|---|---|---|
| 19 | 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. Journal of Colloid and Interface Science, 2021, 601, 196-208. | 5.0 | 77 |
| 20 | Opportunities and challenges in perovskite LED commercialization. Journal of Materials Chemistry C, 2021, 9, 3795-3799. | 2.7 | 70 |
| 21 | Galactose-functionalized multi-responsive nanogels for hepatoma-targeted drug delivery. Nanoscale, 2015, 7, 3137-3146. | 2.8 | 68 |
| 22 | Construction and application of therapeutic metal-polyphenol capsule for peripheral artery disease. Biomaterials, 2020, 255, 120199. | 5.7 | 63 |
| 23 | Synthesis and Self-Assembly of Amphiphilic Janus Laponite Disks. Macromolecules, 2013, 46, 5974-5984. | 2.2 | 59 |
| 24 | Anchoring single-unit-cell defect-rich bismuth molybdate layers on ultrathin carbon nitride nanosheet with boosted charge transfer for efficient photocatalytic ciprofloxacin degradation. Journal of Colloid and Interface Science, 2020, 560, 701-713. | 5.0 | 57 |
| 25 | Strategy to improve gold nanoparticles loading efficiency on defect-free high silica ZSM-5 zeolite for the reduction of nitrophenols. Chemosphere, 2020, 256, 127083. | 4.2 | 57 |
| 26 | MXenes as Superexcellent Support for Confining Single Atom: Properties, Synthesis, and Electrocatalytic Applications. Small, 2021, 17, e2007113. | 5.2 | 52 |
| 27 | A novel cyclodextrin-containing pH-responsive star polymer for nanostructure fabrication and drug delivery. Polymer Chemistry, 2013, 4, 5086. | 1.9 | 51 |
| 28 | Enhanced visible-light-driven photocatalytic activity of bismuth oxide via the decoration of titanium carbide quantum dots. Journal of Colloid and Interface Science, 2021, 600, 161-173. | 5.0 | 51 |
| 29 | Gender difference in spontaneous deception: A hyperscanning study using functional near-infrared spectroscopy. Scientific Reports, 2017, 7, 7508. | 1.6 | 48 |
| 30 | Social risky decision-making reveals gender differences in the TPJ: A hyperscanning study using functional near-infrared spectroscopy. Brain and Cognition, 2017, 119, 54-63. | 0.8 | 46 |
| 31 | Multiple charge-carrier transfer channels of Z-scheme bismuth tungstate-based photocatalyst for tetracycline degradation: Transformation pathways and mechanism. Journal of Colloid and Interface Science, 2019, 555, 770-782. | 5.0 | 45 |
| 32 | Polymers for DNA Vaccine Delivery. ACS Biomaterials Science and Engineering, 2017, 3, 108-125. | 2.6 | 44 |
| 33 | Controlled polymerization of 2â€(diethylamino)ethyl methacrylate and its block copolymer with N â€isopropylacrylamide by RAFT polymerization. Journal of Polymer Science Part A, 2008, 46, 3294-3305. | 2.5 | 43 |
| 34 | Anti-tumor drug delivery system based on cyclodextrin-containing pH-responsive star polymer: In vitro and in vivo evaluation. International Journal of Pharmaceutics, 2014, 474, 232-240. | 2.6 | 41 |
| 35 | Facile synthesis of Mn, Ce co-doped g-C3N4 composite for peroxymonosulfate activation towards organic contaminant degradation. Chemosphere, 2022, 293, 133472. | 4.2 | 41 |
| 36 | Thermo-responsiveness and biocompatibility of star-shaped poly[2-(dimethylamino)ethyl methacrylate]-b-poly(sulfobetaine methacrylate) grafted on a Î²-cyclodextrin core. RSC Advances, 2015, 5, 28133-28140. | 1.7 | 36 |

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|---|---|---|---|
| 37 | Interface-Directed Self-Assembly of Gold Nanoparticles and Fabrication of Hybrid Hollow Capsules by Interfacial Cross-Linking Polymerization. Langmuir, 2012, 28, 9365-9371. | 1.6 | 33 |
| 38 | Aptamer based label free thrombin assay based on the use of silver nanoparticles incorporated into self-polymerized dopamine. Mikrochimica Acta, 2018, 185, 253. | 2.5 | 33 |
| 39 | Fe3O4 nanoparticles modified by CD-containing star polymer for MRI and drug delivery. Colloids and Surfaces B: Biointerfaces, 2017, 158, 213-221. | 2.5 | 32 |
| 40 | Molecular engineering towards efficientwhite-light-emitting perovskite. Nature Communications, 2021, 12, 4890. | 5.8 | 32 |
| 41 | Self-aggregated Nanoparticles of Cholesterol-modified Pullulan Conjugate as a Novel Carrier of Mitoxantronep. Current Nanoscience, 2010, 6, 298-306. | 0.7 | 31 |
| 42 | Construction of Multifunctionalizable, Core-Cross-Linked Polymeric Nanoparticles via Dynamic Covalent Bond. Macromolecules, 2014, 47, 1999-2009. | 2.2 | 30 |
| 43 | Degradation of tetracycline by FeNi-LDH/Ti3C2 photo-Fenton system in water: From performance to mechanism. Chemosphere, 2022, 294, 133736. | 4.2 | 29 |
| 44 | A well-defined coilâ€“comb polycationic brush with â€œstar polymersâ€• as side chains for gene delivery. Polymer Chemistry, 2014, 5, 4670-4678. | 1.9 | 28 |
| 45 | Baicalin Induces Apoptosis and Suppresses the Cell Cycle Progression of Lung Cancer Cells Through Downregulating Akt/mTOR Signaling Pathway. Frontiers in Molecular Biosciences, 2020, 7, 602282. | 1.6 | 28 |
| 46 | Multi-stimuli-responsive biohybrid nanoparticles with cross-linked albumin coronae self-assembled by a polymer-protein biodynamer. Acta Biomaterialia, 2017, 54, 259-270. | 4.1 | 25 |
| 47 | The development of Hani peatland in the Changbai mountains (NE China) and its response to the variations of the East Asian summer monsoon. Science of the Total Environment, 2019, 692, 818-832. | 3.9 | 25 |
| 48 | Activation of persulfate by swine bone derived biochar: Insight into the specific role of different active sites and the toxicity of acetaminophen degradation pathways. Science of the Total Environment, 2022, 807, 151059. | 3.9 | 25 |
| 49 | Protein Nanogels with Temperature-Induced Reversible Structures and Redox Responsiveness. ACS Biomaterials Science and Engineering, 2016, 2, 2266-2275. | 2.6 | 23 |
| 50 | Biodegradable mesoporous nanocomposites with dual-targeting function for enhanced anti-tumor therapy. Journal of Controlled Release, 2022, 341, 383-398. | 4.8 | 22 |
| 51 | Self-assembled nanoparticles containing photosensitizer and polycationic brush for synergistic photothermal and photodynamic therapy against periodontitis. Journal of Nanobiotechnology, 2021, 19, 413. | 4.2 | 22 |
| 52 | Temperature/pH dual responsive microgels of crosslinked poly(Nâ€vinylcaprolactamâ€coâ€undecenoic acid) as biocompatible materials for controlled release of doxorubicin. Journal of Applied Polymer Science, 2014, 131, . | 1.3 | 21 |
| 53 | Facile synthesis of well-defined cyclodextrin-pendant polymer via ATRP for nanostructure fabrication. RSC Advances, 2014, 4, 30566-30572. | 1.7 | 21 |
| 54 | Preparation of a dual cored hepatoma-specific star glycopolymer nanogel via arm-first ATRP approach. International Journal of Nanomedicine, 2017, Volume 12, 3653-3664. | 3.3 | 21 |

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| 55 | Graphynes: ideal supports of single atoms for electrochemical energy conversion. Journal of Materials Chemistry A, 2022, 10, 3905-3932. | 5.2 | 21 |
| 56 | Design, synthesis, and biological evaluation of a new class of histone acetyltransferase p300 inhibitors. European Journal of Medicinal Chemistry, 2019, 180, 171-190. | 2.6 | 19 |
| 57 | Preferentially released miR-122 from cyclodextrin-based star copolymer nanoparticle enhances hepatoma chemotherapy by apoptosis induction and cytotoxics efflux inhibition. Bioactive Materials, 2021, 6, 3744-3755. | 8.6 | 18 |
| 58 | 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 |
| 59 | Discovery of novel inhibitors of signal transducer and activator ofÂtranscription 3 (STAT3) signaling pathway by virtual screening. European Journal of Medicinal Chemistry, 2013, 62, 301-310. | 2.6 | 17 |
| 60 | Rational drug design of benzothiazole-based derivatives as potent signal transducer and activator of transcription 3 (STAT3) signaling pathway inhibitors. European Journal of Medicinal Chemistry, 2021, 216, 113333. | 2.6 | 16 |
| 61 | Nitrogen-doping coupled with cerium oxide loading co-modified graphitic carbon nitride for highly enhanced photocatalytic degradation of tetracycline under visible light. Chemosphere, 2022, 293, 133648. | 4.2 | 16 |
| 62 | In situ fabrication of PHEMAâ€“BSA coreâ€“corona biohybrid particles. Journal of Materials Chemistry B, 2016, 4, 4430-4438. | 2.9 | 15 |
| 63 | Hydrological variation recorded in a subalpine peatland of Northeast Asia since the Little Ice Age and its possible driving mechanisms. Science of the Total Environment, 2021, 772, 144923. | 3.9 | 15 |
| 64 | Interface cross-linked polymeric micelles with mixed coronal chains prepared by RAFT polymerization at the interface. Soft Matter, 2012, 8, 11809. | 1.2 | 14 |
| 65 | Design, synthesis and biological evaluation of benzyloxyphenyl-methylaminophenol derivatives as STAT3 signaling pathway inhibitors. Bioorganic and Medicinal Chemistry, 2016, 24, 2549-2558. | 1.4 | 14 |
| 66 | A Polycationic Brush Mediated Co-Delivery of Doxorubicin and Gene for Combination Therapy. Polymers, 2019, 11, 60. | 2.0 | 14 |
| 67 | Discovery of novel pyrazolopyrimidine derivatives as potent mTOR/HDAC bi-functional inhibitors via pharmacophore-merging strategy. Bioorganic and Medicinal Chemistry Letters, 2021, 49, 128286. | 1.0 | 14 |
| 68 | Multi-objective evolutionary algorithm based on adaptive discrete Differential Evolution. , 2009, , . | | 12 |
| 69 | Identification and immunological evaluation of novel TLR2 agonists through structure optimization of Pam3CSK4. Bioorganic and Medicinal Chemistry, 2019, 27, 2784-2800. | 1.4 | 12 |
| 70 | Sulfur-Doped g-C<sub>3</sub>N<sub>4</sub>-Supported Ni Species with a Wide Temperature Window for Acetylene Semihydrogenation. ACS Sustainable Chemistry and Engineering, 2022, 10, 4849-4861. | 3.2 | 12 |
| 71 | Small dop of comonomer, giant shift of cloud point: Thermoâ€responsive behavior and mechanism of poly(methylacrylamide) copolymers with an upper critical solution temperature. Journal of Polymer Science, 2021, 59, 1701-1710. | 2.0 | 11 |
| 72 | Poly(Îµ-caprolactone) with pendant natural peptides: an old polymeric biomaterial with new properties. Polymer Chemistry, 2017, 8, 5415-5426. | 1.9 | 10 |

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| 73 | Lakeâ€“mire ecosystem transformation and its possible forcing mechanisms in volcanic landform regions: a case study in the Gushantun peatland of northeast China. Earth Surface Processes and Landforms, 2020, 45, 3141-3154. | 1.2 | 10 |
| 74 | Recent Advances in the Development of CBP/p300 Bromodomain Inhibitors. Current Medicinal Chemistry, 2020, 27, 5583-5598. | 1.2 | 10 |
| 75 | Design of a UCST Polymer with Strong Hydrogen Bonds and Reactive Moieties for Facile Polymerâ€“Protein Hybridization. Biomacromolecules, 2022, 23, 1291-1301. | 2.6 | 10 |
| 76 | Identification and characterization of small molecule inhibitors of signal transducer and activator of transcription 3 (STAT3) signaling pathway by virtual screening. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 2225-2229. | 1.0 | 9 |
| 77 | Structural insight into inhibition of REV7 protein interaction revealed by docking, molecular dynamics and MM/PBSA studies. RSC Advances, 2017, 7, 27780-27786. | 1.7 | 9 |
| 78 | A Dissolvable Microneedle Formulation of Bordetella pertussis Subunit Vaccine: Translational Development and Immunological Evaluation in Mice. ACS Applied Bio Materials, 2019, 2, 5053-5061. | 2.3 | 9 |
| 79 | 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. Molecular Pharmaceutics, 2021, 18, 1806-1818. | 2.3 | 9 |
| 80 | Studies on the electrochemical and dopamine sensing properties of AgNP-modified carboxylated cellulose nanocrystal-doped poly(3,4-ethylenedioxythiophene). Ionics, 2017, 23, 3211-3218. | 1.2 | 8 |
| 81 | Modulating Repolarization of Tumor-Associated Macrophages with Targeted Therapeutic Nanoparticles as a Potential Strategy for Cancer Therapy. ACS Applied Bio Materials, 2021, 4, 5871-5896. | 2.3 | 8 |
| 82 | Identification of new dual FABP4/5 inhibitors based on a naphthalene-1-sulfonamide FABP4 inhibitor. Bioorganic and Medicinal Chemistry, 2019, 27, 115015. | 1.4 | 7 |
| 83 | Polymerization-Induced Interfacial Self-Assembly: A Powerful Tool for the Synthesis of Micro-sized Hollow Capsules. Macromolecules, 2021, 54, 11238-11247. | 2.2 | 7 |
| 84 | Sphagnum spore banks in two montane peatlands at different elevations. Wetlands Ecology and Management, 2020, 28, 825-835. | 0.7 | 6 |
| 85 | Fabrication of PÎµCLâ€“AuNPâ€“BSA coreâ€“shellâ€“corona nanoparticles for flexible spatiotemporal drug delivery and SERS detection. Biomaterials Science, 2021, 9, 4440-4447. | 2.6 | 5 |
| 86 | Effects of organic ligands on efficiency and stability of perovskite light-emitting diodes. Journal of Materials Science, 2021, 56, 11436-11447. | 1.7 | 5 |
| 87 | Genome-Wide Pathway Analysis of Microarray Data Identifies Risk Pathways Related to Salt Stress in Arabidopsis Thaliana. Interdisciplinary Sciences, Computational Life Sciences, 2018, 10, 566-571. | 2.2 | 4 |
| 88 | Star-shaped poly(2-aminoethyl methacrylate)s as non-viral gene carriers: Exploring structure-function relationship. Colloids and Surfaces B: Biointerfaces, 2019, 181, 721-727. | 2.5 | 4 |
| 89 | Globus pallidus neuron spike time series prediction based on local-region multi-step forecasting model. , 2008, , . | | 1 |
| 90 | Total Synthesis of Two Diastereomers of Megastigmane Glycoside Lauroside B. Journal of Carbohydrate Chemistry, 2015, 34, 445-459. | 0.4 | 1 |

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| 91 | External temperature control of lymphatic drainage of thermo-sensitive nanomaterials. Biomaterials Science, 2019, 7, 750-759. | 2.6 | 1 |
| 92 | The His23 and Lys79 pair determines the high catalytic efficiency of the inorganic pyrophosphatase of the haloacid dehalogenase superfamily. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130128. | 1.1 | 1 |
| 93 | Star-shaped poly(2-aminoethyl methacrylate)s as non-viral gene carriers: structure-function relationship. Journal of Controlled Release, 2017, 259, e167. | 4.8 | 0 |
| 94 | Recent studies on the pharmacological activities and structural modifications of compound K. Mini-Reviews in Medicinal Chemistry, 2022, 22, . | 1.1 | 0 |
| 95 | Correction to â€œDesign of a UCST Polymer with Strong Hydrogen Bonds and Reactive Moieties for Facile Polymerâ€“Protein Hybridizationâ€• Biomacromolecules, 0, , . | 2.6 | 0 |