# Zhen Liu

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 76 papers | 5,966 citations | 46 h-index | 77 g-index |
| 78 ext. papers | 6,869 ext. citations | 11.8 avg, IF | 5.89 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 76 | Nanopore Targeted Sequencing for the Accurate and Comprehensive Detection of SARS-CoV-2 and Other Respiratory Viruses. *Small*, **2020**, 16, e2002169 | 11 | 91 |
| 75 | Immunomodulation-Enhanced Nanozyme-Based Tumor Catalytic Therapy. *Advanced Materials*, **2020**, 32, e2003563 | 24 | 91 |
| 74 | Specific Inhibition of Viral MicroRNAs by Carbon Dots-Mediated Delivery of Locked Nucleic Acids for Therapy of Virus-Induced Cancer. *ACS Nano*, **2020**, 14, 476-487 | 16.7 | 29 |
| 73 | Phenol-like group functionalized graphene quantum dots structurally mimicking natural antioxidants for highly efficient acute kidney injury treatment. *Chemical Science*, **2020**, 11, 12721-12730 | 9.4 | 14 |
| 72 | Catalase-Based Therapeutics: An Antioxidant Enzyme Therapeutic for COVID-19 (Adv. Mater. 43/2020). *Advanced Materials*, **2020**, 32, 2070321 | 24 | 1 |
| 71 | An Antioxidant Enzyme Therapeutic for COVID-19. *Advanced Materials*, **2020**, 32, e2004901 | 24 | 34 |
| 70 | Silver-Infused Porphyrinic Metal□Organic Framework: Surface-Adaptive, On-Demand Nanoplatform for Synergistic Bacteria Killing and Wound Disinfection. *Advanced Functional Materials*, **2019**, 29, 1808594 | 15.6 | 102 |
| 69 | Renal-Clearable Porphyrinic Metal-Organic Framework Nanodots for Enhanced Photodynamic Therapy. *ACS Nano*, **2019**, 13, 9206-9217 | 16.7 | 68 |
| 68 | Ultrasensitive magnetic resonance imaging of systemic reactive oxygen species for early diagnosis of sepsis using activatable nanoprobes. *Chemical Science*, **2019**, 10, 3770-3778 | 9.4 | 23 |
| 67 | Aggregation-induced emission-active Au nanoclusters for ratiometric sensing and bioimaging of highly reactive oxygen species. *Chemical Communications*, **2019**, 55, 15097-15100 | 5.8 | 20 |
| 66 | Specific Oxygenated Groups Enriched Graphene Quantum Dots as Highly Efficient Enzyme Mimics. *Small*, **2018**, 14, e1703710 | 11 | 60 |
| 65 | Selenium-Based Nanozyme as Biomimetic Antioxidant Machinery. *Chemistry - A European Journal*, **2018**, 24, 10224 | 4.8 | 27 |
| 64 | Biomimetic nanoflowers by self-assembly of nanozymes to induce intracellular oxidative damage against hypoxic tumors. *Nature Communications*, **2018**, 9, 3334 | 17.4 | 308 |
| 63 | Ultrasmall Nanozymes Isolated within Porous Carbonaceous Frameworks for Synergistic Cancer Therapy: Enhanced Oxidative Damage and Reduced Energy Supply. *Chemistry of Materials*, **2018**, 30, 7831-7839 | 9.6 | 59 |
| 62 | Unraveling the Enzymatic Activity of Oxygenated Carbon Nanotubes and Their Application in the Treatment of Bacterial Infections. *Nano Letters*, **2018**, 18, 3344-3351 | 11.5 | 120 |
| 61 | Metal-organic-framework-supported immunostimulatory oligonucleotides for enhanced immune response and imaging. *Chemical Communications*, **2017**, 53, 1840-1843 | 5.8 | 41 |
| 60 | Encapsulation of aggregated gold nanoclusters in a metal-organic framework for real-time monitoring of drug release. *Nanoscale*, **2017**, 9, 4128-4134 | 7.7 | 72 |

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| 59 | A GO-Se nanocomposite as an antioxidant nanozyme for cytoprotection. *Chemical Communications*, **2017**, 53, 3082-3085 | 5.8 | 51 |
| 58 | An intelligent near-infrared light activatable nanosystem for accurate regulation of zinc signaling in living cells. *Nano Research*, **2017**, 10, 3068-3076 | 10 | 7 |
| 57 | A NIR-controlled cage mimicking system for hydrophobic drug mediated cancer therapy. *Biomaterials*, **2017**, 139, 151-162 | 15.6 | 72 |
| 56 | A bifunctional nanomodulator for boosting CpG-mediated cancer immunotherapy. *Nanoscale*, **2017**, 9, 14236-14247 | 7.7 | 38 |
| 55 | Manganese Dioxide Nanozymes as Responsive Cytoprotective Shells for Individual Living Cell Encapsulation. *Angewandte Chemie*, **2017**, 129, 13849-13853 | 3.6 | 11 |
| 54 | Manganese Dioxide Nanozymes as Responsive Cytoprotective Shells for Individual Living Cell Encapsulation. *Angewandte Chemie - International Edition*, **2017**, 56, 13661-13665 | 16.4 | 124 |
| 53 | Activation of biologically relevant levels of reactive oxygen species by Au/g-CN hybrid nanozyme for bacteria killing and wound disinfection. *Biomaterials*, **2017**, 113, 145-157 | 15.6 | 234 |
| 52 | Metal-Organic-Framework-Based Vaccine Platforms for Enhanced Systemic Immune and Memory Response. *Advanced Functional Materials*, **2016**, 26, 6454-6461 | 15.6 | 152 |
| 51 | Conformational switch-mediated accelerated release of drug from cytosine-rich nucleic acid-capped magnetic nanovehicles. *Chemical Communications*, **2016**, 52, 3364-7 | 5.8 | 4 |
| 50 | Bioorthogonal chemistry for selective recognition, separation and killing bacteria over mammalian cells. *Chemical Communications*, **2016**, 52, 3482-5 | 5.8 | 4 |
| 49 | A graphitic hollow carbon nitride nanosphere as a novel photochemical internalization agent for targeted and stimuli-responsive cancer therapy. *Nanoscale*, **2016**, 8, 12570-8 | 7.7 | 71 |
| 48 | Self-Assembly of Multi-nanozymes to Mimic an Intracellular Antioxidant Defense System. *Angewandte Chemie - International Edition*, **2016**, 55, 6646-50 | 16.4 | 214 |
| 47 | Self-Assembly of Multi-nanozymes to Mimic an Intracellular Antioxidant Defense System. *Angewandte Chemie*, **2016**, 128, 6758-6762 | 3.6 | 52 |
| 46 | Non-toxic lead sulfide nanodots as efficient contrast agents for visualizing gastrointestinal tract. *Biomaterials*, **2016**, 100, 17-26 | 15.6 | 26 |
| 45 | Embedding magnetic nanoparticles into coordination polymers to mimic zinc ion transporters for targeted tumor therapy. *Chemical Communications*, **2016**, 52, 12598-12601 | 5.8 | 9 |
| 44 | Artificial Metalloenzyme-Based Enzyme Replacement Therapy for the Treatment of Hyperuricemia. *Advanced Functional Materials*, **2016**, 26, 7921-7928 | 15.6 | 37 |
| 43 | Copper(II)□Graphitic Carbon Nitride Triggered Synergy: Improved ROS Generation and Reduced Glutathione Levels for Enhanced Photodynamic Therapy. *Angewandte Chemie*, **2016**, 128, 11639-11643 | 3.6 | 79 |
| 42 | Copper(II)-Graphitic Carbon Nitride Triggered Synergy: Improved ROS Generation and Reduced Glutathione Levels for Enhanced Photodynamic Therapy. *Angewandte Chemie - International Edition* , **2016**, 55, 11467-71 | 16.4 | 282 |

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| 41 | An efficient nano-based theranostic system for multi-modal imaging-guided photothermal sterilization in gastrointestinal tract. *Biomaterials*, **2015**, 56, 206-18 | 15.6 | 92 |
| 40 | Single-layer tungsten oxide as intelligent photo-responsive nanoagents for permanent male sterilization. *Biomaterials*, **2015**, 69, 56-64 | 15.6 | 35 |
| 39 | Using Plasmonic Copper Sulfide Nanocrystals as Smart Light-Driven Sterilants. *ACS Nano*, **2015**, 9, 10335-46 | 13.7 | 80 |
| 38 | Upconversion nanoprobes for efficiently in vitro imaging reactive oxygen species and in vivo diagnosing rheumatoid arthritis. *Biomaterials*, **2015**, 39, 15-22 | 15.6 | 86 |
| 37 | Tumor Microenvironment Activated Photothermal Strategy for Precisely Controlled Ablation of Solid Tumors upon NIR Irradiation. *Advanced Functional Materials*, **2015**, 25, 1574-1580 | 15.6 | 108 |
| 36 | A Smart Nanoassembly for Multistage Targeted Drug Delivery and Magnetic Resonance Imaging. *Advanced Functional Materials*, **2014**, 24, 3612-3620 | 15.6 | 86 |
| 35 | One-step nucleotide-programmed growth of porous upconversion nanoparticles: application to cell labeling and drug delivery. *Nanoscale*, **2014**, 6, 1445-52 | 7.7 | 56 |
| 34 | Biocompatible and high-performance amino acids-capped MnWO4 nanocasting as a novel non-lanthanide contrast agent for X-ray computed tomography and T(1)-weighted magnetic resonance imaging. *Nanoscale*, **2014**, 6, 2211-7 | 7.7 | 36 |
| 33 | A multi-stimuli responsive gold nanocage-hyaluronic platform for targeted photothermal and chemotherapy. *Biomaterials*, **2014**, 35, 9678-88 | 15.6 | 149 |
| 32 | Heterogeneous assembled nanocomplexes for ratiometric detection of highly reactive oxygen species in vitro and in vivo. *ACS Nano*, **2014**, 8, 6014-23 | 16.7 | 132 |
| 31 | Near-infrared light-triggered drug-delivery vehicle for mitochondria-targeted chemo-photothermal therapy. *ACS Applied Materials & Interfaces*, **2014**, 6, 4364-70 | 9.5 | 82 |
| 30 | A smart "sense-act-treat" system: combining a ratiometric pH sensor with a near infrared therapeutic gold nanocage. *Advanced Materials*, **2014**, 26, 6635-41 | 24 | 79 |
| 29 | Nucleoside Triphosphates as Promoters to Enhance Nanoceria Enzyme-like Activity and for Single-Nucleotide Polymorphism Typing. *Advanced Functional Materials*, **2014**, 24, 1624-1630 | 15.6 | 88 |
| 28 | Anti-biofouling polymer-decorated lutetium-based nanoparticulate contrast agents for in vivo high-resolution trimodal imaging. *Small*, **2014**, 10, 2429-38 | 11 | 49 |
| 27 | Engineered, self-assembled near-infrared photothermal agents for combined tumor immunotherapy and chemo-photothermal therapy. *Biomaterials*, **2014**, 35, 6646-56 | 15.6 | 116 |
| 26 | Repeated functional convergent effects of NaV1.7 on acid insensitivity in hibernating mammals. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281, 20132950 | 4.4 | 20 |
| 25 | Hydrophobic anticancer drug delivery by a 980 nm laser-driven photothermal vehicle for efficient synergistic therapy of cancer cells in vivo. *Advanced Materials*, **2013**, 25, 4452-8 | 24 | 276 |
| 24 | Near-infrared-controlled, targeted hydrophobic drug-delivery system for synergistic cancer therapy. *Chemistry - A European Journal*, **2013**, 19, 10388-94 | 4.8 | 33 |

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| 23 | Aptamer-directed synthesis of multifunctional lanthanide-doped porous nanoprobes for targeted imaging and drug delivery. *Small*, **2013**, 9, 4262-8 | 11 | 21 |
| 22 | Nucleic acid-mesoporous silica nanoparticle conjugates for keypad lock security operation. *Chemical Communications*, **2013**, 49, 2305-7 | 5.8 | 34 |
| 21 | Direct visualization of gastrointestinal tract with lanthanide-doped BaYbF5 upconversion nanoprobes. *Biomaterials*, **2013**, 34, 7444-52 | 15.6 | 56 |
| 20 | Combination delivery of antigens and CpG by lanthanides-based core-shell nanoparticles for enhanced immune response and dual-mode imaging. *Advanced Healthcare Materials*, **2013**, 2, 1309-13 | 10.1 | 15 |
| 19 | PEGylated hybrid ytterbia nanoparticles as high-performance diagnostic probes for in vivo magnetic resonance and X-ray computed tomography imaging with low systemic toxicity. *Nanoscale*, **2013**, 5, 4252-61 | 7.7 | 39 |
| 18 | Luminescent carbon dot-gated nanovehicles for pH-triggered intracellular controlled release and imaging. *Langmuir*, **2013**, 29, 6396-403 | 4 | 137 |
| 17 | Versatile Fluorescent Conjugated Polyelectrolyte-Capped Mesoporous Silica Nanoparticles for Controlled Drug Delivery and Imaging. *ChemPlusChem*, **2013**, 78, 656-662 | 2.8 | 5 |
| 16 | Long-circulating Gd(2)O(3):Yb(3+), Er(3+) up-conversion nanoprobes as high-performance contrast agents for multi-modality imaging. *Biomaterials*, **2013**, 34, 1712-21 | 15.6 | 139 |
| 15 | A general and eco-friendly self-etching route to prepare highly active and stable Au@metal silicate yolk-shell nanoreactors for catalytic reduction of 4-nitrophenol. *CrystEngComm*, **2013**, 15, 6329 | 3.3 | 35 |
| 14 | Long-circulating Er3+-doped Yb2O3 up-conversion nanoparticle as an in vivo X-Ray CT imaging contrast agent. *Biomaterials*, **2012**, 33, 6748-57 | 15.6 | 149 |
| 13 | Photosensitizer-incorporated G-quadruplex DNA-functionalized magnetofluorescent nanoparticles for targeted magnetic resonance/fluorescence multimodal imaging and subsequent photodynamic therapy of cancer. *Chemical Communications*, **2012**, 48, 6556-8 | 5.8 | 51 |
| 12 | Inhibition of metal-induced amyloid aggregation using light-responsive magnetic nanoparticle prochelator conjugates. *Chemical Science*, **2012**, 3, 868-873 | 9.4 | 46 |
| 11 | Magnetic self-assembled zeolite clusters for sensitive detection and rapid removal of mercury(II). *ACS Applied Materials & Interfaces*, **2012**, 4, 431-7 | 9.5 | 44 |
| 10 | Aptamer-capped multifunctional mesoporous strontium hydroxyapatite nanovehicle for cancer-cell-responsive drug delivery and imaging. *Biomacromolecules*, **2012**, 13, 4257-63 | 6.9 | 67 |
| 9 | Hybrid mesoporous gadolinium oxide nanorods: a platform for multimodal imaging and enhanced insoluble anticancer drug delivery with low systemic toxicity. *Journal of Materials Chemistry*, **2012**, 22, 14982 | | 50 |
| 8 | Near-infrared light-triggered, targeted drug delivery to cancer cells by aptamer gated nanovehicles. *Advanced Materials*, **2012**, 24, 2890-5 | 24 | 364 |
| 7 | Drug Delivery: Near-Infrared Light-Triggered, Targeted Drug Delivery to Cancer Cells by Aptamer Gated Nanovehicles (Adv. Mater. 21/2012). *Advanced Materials*, **2012**, 24, 2798-2798 | 24 | 0 |
| 6 | Easy access to selective binding and recyclable separation of histidine-tagged proteins using Ni2+-decorated superparamagnetic nanoparticles. *Nano Research*, **2012**, 5, 450-459 | 10 | 18 |

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| 5 | Hierarchical magnetic core–shell nanoarchitectures: non-linker reagent synthetic route and applications in a biomolecule separation system. *Journal of Materials Chemistry*, **2012**, 22, 2935-2942 | | 31 |
| 4 | The use of multifunctional magnetic mesoporous core/shell heteronanostructures in a biomolecule separation system. *Biomaterials*, **2011**, 32, 4683-90 | 15.6 | 87 |
| 3 | DNA-based logic gates operating as a biomolecular security device. *Chemical Communications*, **2011**, 47, 6024-6 | 5.8 | 60 |
| 2 | Stimuli-responsive controlled-release system using quadruplex DNA-capped silica nanocontainers. *Nucleic Acids Research*, **2011**, 39, 1638-44 | 20.1 | 178 |
| 1 | Patt1, a novel protein acetyltransferase that is highly expressed in liver and downregulated in hepatocellular carcinoma, enhances apoptosis of hepatoma cells. *International Journal of Biochemistry and Cell Biology*, **2009**, 41, 2528-37 | 5.6 | 29 |