

# Zhen Liu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Near-infrared light-triggered, targeted drug delivery to cancer cells by aptamer gated nanovehicles. <i>Advanced Materials</i> , <b>2012</b> , 24, 2890-5	24	364
75	Biomimetic nanoflowers by self-assembly of nanozymes to induce intracellular oxidative damage against hypoxic tumors. <i>Nature Communications</i> , <b>2018</b> , 9, 3334	17.4	308
74	Copper(II)-Graphitic Carbon Nitride Triggered Synergy: Improved ROS Generation and Reduced Glutathione Levels for Enhanced Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11467-71	16.4	282
73	Hydrophobic anticancer drug delivery by a 980 nm laser-driven photothermal vehicle for efficient synergistic therapy of cancer cells in vivo. <i>Advanced Materials</i> , <b>2013</b> , 25, 4452-8	24	276
72	Activation of biologically relevant levels of reactive oxygen species by Au/g-CN hybrid nanozyme for bacteria killing and wound disinfection. <i>Biomaterials</i> , <b>2017</b> , 113, 145-157	15.6	234
71	Self-Assembly of Multi-nanozymes to Mimic an Intracellular Antioxidant Defense System. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 6646-50	16.4	214
70	Stimuli-responsive controlled-release system using quadruplex DNA-capped silica nanocontainers. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 1638-44	20.1	178
69	Metal-Organic-Framework-Based Vaccine Platforms for Enhanced Systemic Immune and Memory Response. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6454-6461	15.6	152
68	A multi-stimuli responsive gold nanocage-hyaluronic platform for targeted photothermal and chemotherapy. <i>Biomaterials</i> , <b>2014</b> , 35, 9678-88	15.6	149
67	Long-circulating Er <sup>3+</sup> -doped Yb <sub>2</sub> O <sub>3</sub> up-conversion nanoparticle as an in vivo X-Ray CT imaging contrast agent. <i>Biomaterials</i> , <b>2012</b> , 33, 6748-57	15.6	149
66	Long-circulating Gd(2)O(3):Yb(3+), Er(3+) up-conversion nanoprobe as high-performance contrast agents for multi-modality imaging. <i>Biomaterials</i> , <b>2013</b> , 34, 1712-21	15.6	139
65	Luminescent carbon dot-gated nanovehicles for pH-triggered intracellular controlled release and imaging. <i>Langmuir</i> , <b>2013</b> , 29, 6396-403	4	137
64	Heterogeneous assembled nanocomplexes for ratiometric detection of highly reactive oxygen species in vitro and in vivo. <i>ACS Nano</i> , <b>2014</b> , 8, 6014-23	16.7	132
63	Manganese Dioxide Nanozymes as Responsive Cytoprotective Shells for Individual Living Cell Encapsulation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13661-13665	16.4	124
62	Unraveling the Enzymatic Activity of Oxygenated Carbon Nanotubes and Their Application in the Treatment of Bacterial Infections. <i>Nano Letters</i> , <b>2018</b> , 18, 3344-3351	11.5	120
61	Engineered, self-assembled near-infrared photothermal agents for combined tumor immunotherapy and chemo-photothermal therapy. <i>Biomaterials</i> , <b>2014</b> , 35, 6646-56	15.6	116
60	Tumor Microenvironment Activated Photothermal Strategy for Precisely Controlled Ablation of Solid Tumors upon NIR Irradiation. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1574-1580	15.6	108

59	Silver-Infused Porphyrinic Metal-Organic Framework: Surface-Adaptive, On-Demand Nanoplatfom for Synergistic Bacteria Killing and Wound Disinfection. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808594	15.6	102
58	An efficient nano-based theranostic system for multi-modal imaging-guided photothermal sterilization in gastrointestinal tract. <i>Biomaterials</i> , <b>2015</b> , 56, 206-18	15.6	92
57	Nanopore Targeted Sequencing for the Accurate and Comprehensive Detection of SARS-CoV-2 and Other Respiratory Viruses. <i>Small</i> , <b>2020</b> , 16, e2002169	11	91
56	Immunomodulation-Enhanced Nanozyme-Based Tumor Catalytic Therapy. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003563	24	91
55	Nucleoside Triphosphates as Promoters to Enhance Nanoceria Enzyme-like Activity and for Single-Nucleotide Polymorphism Typing. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1624-1630	15.6	88
54	The use of multifunctional magnetic mesoporous core/shell heteronanostructures in a biomolecule separation system. <i>Biomaterials</i> , <b>2011</b> , 32, 4683-90	15.6	87
53	Upconversion nanoprobe for efficiently in vitro imaging reactive oxygen species and in vivo diagnosing rheumatoid arthritis. <i>Biomaterials</i> , <b>2015</b> , 39, 15-22	15.6	86
52	A Smart Nanoassembly for Multistage Targeted Drug Delivery and Magnetic Resonance Imaging. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3612-3620	15.6	86
51	Near-infrared light-triggered drug-delivery vehicle for mitochondria-targeted chemo-photothermal therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 4364-70	9.5	82
50	Using Plasmonic Copper Sulfide Nanocrystals as Smart Light-Driven Sterilants. <i>ACS Nano</i> , <b>2015</b> , 9, 10335-467	15.6	80
49	A smart "sense-act-treat" system: combining a ratiometric pH sensor with a near infrared therapeutic gold nanocage. <i>Advanced Materials</i> , <b>2014</b> , 26, 6635-41	24	79
48	Copper(II)-Graphitic Carbon Nitride Triggered Synergy: Improved ROS Generation and Reduced Glutathione Levels for Enhanced Photodynamic Therapy. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 11639-11643	3.6	79
47	Encapsulation of aggregated gold nanoclusters in a metal-organic framework for real-time monitoring of drug release. <i>Nanoscale</i> , <b>2017</b> , 9, 4128-4134	7.7	72
46	A NIR-controlled cage mimicking system for hydrophobic drug mediated cancer therapy. <i>Biomaterials</i> , <b>2017</b> , 139, 151-162	15.6	72
45	A graphitic hollow carbon nitride nanosphere as a novel photochemical internalization agent for targeted and stimuli-responsive cancer therapy. <i>Nanoscale</i> , <b>2016</b> , 8, 12570-8	7.7	71
44	Renal-Clearable Porphyrinic Metal-Organic Framework Nanodots for Enhanced Photodynamic Therapy. <i>ACS Nano</i> , <b>2019</b> , 13, 9206-9217	16.7	68
43	Aptamer-capped multifunctional mesoporous strontium hydroxyapatite nanovehicle for cancer-cell-responsive drug delivery and imaging. <i>Biomacromolecules</i> , <b>2012</b> , 13, 4257-63	6.9	67
42	Specific Oxygenated Groups Enriched Graphene Quantum Dots as Highly Efficient Enzyme Mimics. <i>Small</i> , <b>2018</b> , 14, e1703710	11	60

41	DNA-based logic gates operating as a biomolecular security device. <i>Chemical Communications</i> , <b>2011</b> , 47, 6024-6	5.8	60
40	Ultrasmall Nanozymes Isolated within Porous Carbonaceous Frameworks for Synergistic Cancer Therapy: Enhanced Oxidative Damage and Reduced Energy Supply. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 7831-7839	9.6	59
39	One-step nucleotide-programmed growth of porous upconversion nanoparticles: application to cell labeling and drug delivery. <i>Nanoscale</i> , <b>2014</b> , 6, 1445-52	7.7	56
38	Direct visualization of gastrointestinal tract with lanthanide-doped BaYbF5 upconversion nanoprobe. <i>Biomaterials</i> , <b>2013</b> , 34, 7444-52	15.6	56
37	Self-Assembly of Multi-nanozymes to Mimic an Intracellular Antioxidant Defense System. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 6758-6762	3.6	52
36	A GO-Se nanocomposite as an antioxidant nanozyme for cytoprotection. <i>Chemical Communications</i> , <b>2017</b> , 53, 3082-3085	5.8	51
35	Photosensitizer-incorporated G-quadruplex DNA-functionalized magnetofluorescent nanoparticles for targeted magnetic resonance/fluorescence multimodal imaging and subsequent photodynamic therapy of cancer. <i>Chemical Communications</i> , <b>2012</b> , 48, 6556-8	5.8	51
34	Hybrid mesoporous gadolinium oxide nanorods: a platform for multimodal imaging and enhanced insoluble anticancer drug delivery with low systemic toxicity. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14982		50
33	Anti-biofouling polymer-decorated lutetium-based nanoparticulate contrast agents for in vivo high-resolution trimodal imaging. <i>Small</i> , <b>2014</b> , 10, 2429-38	11	49
32	Inhibition of metal-induced amyloid aggregation using light-responsive magnetic nanoparticle pro-chelator conjugates. <i>Chemical Science</i> , <b>2012</b> , 3, 868-873	9.4	46
31	Magnetic self-assembled zeolite clusters for sensitive detection and rapid removal of mercury(II). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 431-7	9.5	44
30	Metal-organic-framework-supported immunostimulatory oligonucleotides for enhanced immune response and imaging. <i>Chemical Communications</i> , <b>2017</b> , 53, 1840-1843	5.8	41
29	PEGylated hybrid ytterbia nanoparticles as high-performance diagnostic probes for in vivo magnetic resonance and X-ray computed tomography imaging with low systemic toxicity. <i>Nanoscale</i> , <b>2013</b> , 5, 4252-61	7.7	39
28	A bifunctional nanomodulator for boosting CpG-mediated cancer immunotherapy. <i>Nanoscale</i> , <b>2017</b> , 9, 14236-14247	7.7	38
27	Artificial Metalloenzyme-Based Enzyme Replacement Therapy for the Treatment of Hyperuricemia. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7921-7928	15.6	37
26	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. <i>Nanoscale</i> , <b>2014</b> , 6, 2211-7	7.7	36
25	Single-layer tungsten oxide as intelligent photo-responsive nanoagents for permanent male sterilization. <i>Biomaterials</i> , <b>2015</b> , 69, 56-64	15.6	35
24	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. <i>CrystEngComm</i> , <b>2013</b> , 15, 6329	3.3	35

23	Nucleic acid-mesoporous silica nanoparticle conjugates for keypad lock security operation. <i>Chemical Communications</i> , <b>2013</b> , 49, 2305-7	5.8	34
22	An Antioxidant Enzyme Therapeutic for COVID-19. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004901	24	34
21	Near-infrared-controlled, targeted hydrophobic drug-delivery system for synergistic cancer therapy. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 10388-94	4.8	33
20	Hierarchical magnetic core-shell nanoarchitectures: non-linker reagent synthetic route and applications in a biomolecule separation system. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 2935-2942		31
19	Patt1, a novel protein acetyltransferase that is highly expressed in liver and downregulated in hepatocellular carcinoma, enhances apoptosis of hepatoma cells. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2009</b> , 41, 2528-37	5.6	29
18	Specific Inhibition of Viral MicroRNAs by Carbon Dots-Mediated Delivery of Locked Nucleic Acids for Therapy of Virus-Induced Cancer. <i>ACS Nano</i> , <b>2020</b> , 14, 476-487	16.7	29
17	Selenium-Based Nanozyme as Biomimetic Antioxidant Machinery. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 10224	4.8	27
16	Non-toxic lead sulfide nanodots as efficient contrast agents for visualizing gastrointestinal tract. <i>Biomaterials</i> , <b>2016</b> , 100, 17-26	15.6	26
15	Ultrasensitive magnetic resonance imaging of systemic reactive oxygen species for early diagnosis of sepsis using activatable nanoprobe. <i>Chemical Science</i> , <b>2019</b> , 10, 3770-3778	9.4	23
14	Aptamer-directed synthesis of multifunctional lanthanide-doped porous nanoprobe for targeted imaging and drug delivery. <i>Small</i> , <b>2013</b> , 9, 4262-8	11	21
13	Repeated functional convergent effects of NaV1.7 on acid insensitivity in hibernating mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 281, 20132950	4.4	20
12	Aggregation-induced emission-active Au nanoclusters for ratiometric sensing and bioimaging of highly reactive oxygen species. <i>Chemical Communications</i> , <b>2019</b> , 55, 15097-15100	5.8	20
11	Easy access to selective binding and recyclable separation of histidine-tagged proteins using Ni <sup>2+</sup> -decorated superparamagnetic nanoparticles. <i>Nano Research</i> , <b>2012</b> , 5, 450-459	10	18
10	Combination delivery of antigens and CpG by lanthanides-based core-shell nanoparticles for enhanced immune response and dual-mode imaging. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 1309-13	10.1	15
9	Phenol-like group functionalized graphene quantum dots structurally mimicking natural antioxidants for highly efficient acute kidney injury treatment. <i>Chemical Science</i> , <b>2020</b> , 11, 12721-12730	9.4	14
8	Manganese Dioxide Nanozymes as Responsive Cytoprotective Shells for Individual Living Cell Encapsulation. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13849-13853	3.6	11
7	Embedding magnetic nanoparticles into coordination polymers to mimic zinc ion transporters for targeted tumor therapy. <i>Chemical Communications</i> , <b>2016</b> , 52, 12598-12601	5.8	9
6	An intelligent near-infrared light activatable nanosystem for accurate regulation of zinc signaling in living cells. <i>Nano Research</i> , <b>2017</b> , 10, 3068-3076	10	7

5	Versatile Fluorescent Conjugated Polyelectrolyte-Capped Mesoporous Silica Nanoparticles for Controlled Drug Delivery and Imaging. <i>ChemPlusChem</i> , <b>2013</b> , 78, 656-662	2.8	5
4	Conformational switch-mediated accelerated release of drug from cytosine-rich nucleic acid-capped magnetic nanovehicles. <i>Chemical Communications</i> , <b>2016</b> , 52, 3364-7	5.8	4
3	Bioorthogonal chemistry for selective recognition, separation and killing bacteria over mammalian cells. <i>Chemical Communications</i> , <b>2016</b> , 52, 3482-5	5.8	4
2	Catalase-Based Therapeutics: An Antioxidant Enzyme Therapeutic for COVID-19 (Adv. Mater. 43/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070321	24	1
1	Drug Delivery: Near-Infrared Light-Triggered, Targeted Drug Delivery to Cancer Cells by Aptamer Gated Nanovehicles (Adv. Mater. 21/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 2798-2798	24	0