Zhen Liu

List of Publications by Year
in descending order

76	7,651	43973	69108
papers	citations	48 h-index	77 g-index

78	78	78	10089
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biomimetic nanoflowers by self-assembly of nanozymes to induce intracellular oxidative damage against hypoxic tumors. Nature Communications, 2018, 9, 3334.	5.8	464
2	Copper(II)â€“Graphitic Carbon Nitride Triggered Synergy: Improved ROS Generation and Reduced Glutathione Levels for Enhanced Photodynamic Therapy. Angewandte Chemie - International Edition, 2016, 55, 11467-11471.	7.2	396
3	Nearâ€Infrared Lightâ€Triggered, Targeted Drug Delivery to Cancer Cells by Aptamer Gated Nanovehicles. Advanced Materials, 2012, 24, 2890-2895.	11.1	388
4	Selfâ€Assembly of Multiâ€nanozymes to Mimic an Intracellular Antioxidant Defense System. Angewandte Chemie - International Edition, 2016, 55, 6646-6650.	7.2	330
5	Activation of biologically relevant levels of reactive oxygen species by Au/g-C3N4 hybrid nanozyme for bacteria killing and wound disinfection. Biomaterials, 2017, 113, 145-157.	5.7	318
6	Hydrophobic Anticancer Drug Delivery by a 980 nm Laserâ€Driven Photothermal Vehicle for Efficient Synergistic Therapy of Cancer Cells In Vivo. Advanced Materials, 2013, 25, 4452-4458.	11.1	298
7	Immunomodulationâ€Enhanced Nanozymeâ€Based Tumor Catalytic Therapy. Advanced Materials, 2020, 32, e2003563.	11.1	226
8	Metalâ€Organicâ€Frameworkâ€Based Vaccine Platforms for Enhanced Systemic Immune and Memory Response. Advanced Functional Materials, 2016, 26, 6454-6461.	7.8	210
9	Unraveling the Enzymatic Activity of Oxygenated Carbon Nanotubes and Their Application in the Treatment of Bacterial Infections. Nano Letters, 2018, 18, 3344-3351.	4.5	199
10	Manganese Dioxide Nanozymes as Responsive Cytoprotective Shells for Individual Living Cell Encapsulation. Angewandte Chemie - International Edition, 2017, 56, 13661-13665.	7.2	196
11	Stimuli-responsive controlled-release system using quadruplex DNA-capped silica nanocontainers. Nucleic Acids Research, 2011, 39, 1638-1644.	6.5	186
12	Silverâ€Infused Porphyrinic Metalâ€“Organic Framework: Surfaceâ€Adaptive, Onâ€Demand Nanoplatform for Synergistic Bacteria Killing and Wound Disinfection. Advanced Functional Materials, 2019, 29, 1808594.	7.8	181
13	Long-circulating Er3+-doped Yb2O3 up-conversion nanoparticle as an inÂvivo X-Ray CT imaging contrast agent. Biomaterials, 2012, 33, 6748-6757.	5.7	171
14	Nanopore Targeted Sequencing for the Accurate and Comprehensive Detection of SARSâ€CoVâ€2 and Other Respiratory Viruses. Small, 2020, 16, e2002169.	5.2	169
15	A multi-stimuli responsive gold nanocageâ€“hyaluronic platform for targeted photothermal and chemotherapy. Biomaterials, 2014, 35, 9678-9688.	5.7	167
16	Luminescent Carbon Dot-Gated Nanovehicles for pH-Triggered Intracellular Controlled Release and Imaging. Langmuir, 2013, 29, 6396-6403.	1.6	153
17	Heterogeneous Assembled Nanocomplexes for Ratiometric Detection of Highly Reactive Oxygen Species in Vitro and in Vivo. ACS Nano, 2014, 8, 6014-6023.	7.3	151
18	Long-circulating Gd2O3:Yb3+, Er3+ up-conversion nanoprobes as high-performance contrast agents for multi-modality imaging. Biomaterials, 2013, 34, 1712-1721.	5.7	146

#	Article	IF	Citations
19	Engineered, self-assembled near-infrared photothermal agents for combined tumor immunotherapy and chemo-photothermal therapy. Biomaterials, 2014, 35, 6646-6656.	5.7	131
20	Tumor Microenvironment Activated Photothermal Strategy for Precisely Controlled Ablation of Solid Tumors upon NIR Irradiation. Advanced Functional Materials, 2015, 25, 1574-1580.	7.8	129
21	Renal-Clearable Porphyrinic Metalâ€“Organic Framework Nanodots for Enhanced Photodynamic Therapy. ACS Nano, 2019, 13, 9206-9217.	7.3	110
22	Nucleoside Triphosphates as Promoters to Enhance Nanoceria Enzymeâ€like Activity and for Singleâ€Nucleotide Polymorphism Typing. Advanced Functional Materials, 2014, 24, 1624-1630.	7.8	105
23	A Smart Nanoassembly for Multistage Targeted Drug Delivery and Magnetic Resonance Imaging. Advanced Functional Materials, 2014, 24, 3612-3620.	7.8	102
24	An efficient nano-based theranostic system for multi-modal imaging-guided photothermal sterilization in gastrointestinal tract. Biomaterials, 2015, 56, 206-218.	5.7	98
25	The use of multifunctional magnetic mesoporous core/shell heteronanostructures in a biomolecule separation system. Biomaterials, 2011, 32, 4683-4690.	5.7	97
26	Using Plasmonic Copper Sulfide Nanocrystals as Smart Light-Driven Sterilants. ACS Nano, 2015, 9, 10335-10346.	7.3	96
27	Near-Infrared Light-Triggered Drug-Delivery Vehicle for Mitochondria-Targeted Chemo-Photothermal Therapy. ACS Applied Materials & Interfaces, 2014, 6, 4364-4370.	4.0	95
28	Upconversion nanoprobes for efficiently inÂvitro imaging reactive oxygen species and inÂvivo diagnosing rheumatoid arthritis. Biomaterials, 2015, 39, 15-22.	5.7	95
29	Copper(II)â€“Graphitic Carbon Nitride Triggered Synergy: Improved ROS Generation and Reduced Glutathione Levels for Enhanced Photodynamic Therapy. Angewandte Chemie, 2016, 128, 11639-11643.	1.6	95
30	Encapsulation of aggregated gold nanoclusters in a metalâ€“organic framework for real-time monitoring of drug release. Nanoscale, 2017, 9, 4128-4134.	2.8	93
31	Specific Oxygenated Groups Enriched Graphene Quantum Dots as Highly Efficient Enzyme Mimics. Small, 2018, 14, e1703710.	5.2	92
32	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.	3.2	91
33	A Smart â€œSenseâ€Actâ€Treatâ€•System: Combining a Ratiometric pH Sensor with a Near Infrared Therapeutic Gold Nanocage. Advanced Materials, 2014, 26, 6635-6641.	11.1	88
34	A GOâ€“Se nanocomposite as an antioxidant nanozyme for cytoprotection. Chemical Communications, 2017, 53, 3082-3085.	2.2	84
35	A NIR-controlled cage mimicking system for hydrophobic drug mediated cancer therapy. Biomaterials, 2017, 139, 151-162.	5.7	83
36	Selfâ€Assembly of Multiâ€nanozymes to Mimic an Intracellular Antioxidant Defense System. Angewandte Chemie, 2016, 128, 6758-6762.	1.6	80

#	Article	IF	Citations
37	A graphitic hollow carbon nitride nanosphere as a novel photochemical internalization agent for targeted and stimuli-responsive cancer therapy. Nanoscale, 2016, 8, 12570-12578.	2.8	78
38	Aptamer-Capped Multifunctional Mesoporous Strontium Hydroxyapatite Nanovehicle for Cancer-Cell-Responsive Drug Delivery and Imaging. Biomacromolecules, 2012, 13, 4257-4263.	2.6	76
39	Direct visualization of gastrointestinal tract with lanthanide-doped BaYbF5 upconversion nanoprobes. Biomaterials, 2013, 34, 7444-7452.	5.7	70
40	DNA-based logic gates operating as a biomolecular security device. Chemical Communications, 2011, 47, 6024.	2.2	68
41	An Antioxidant Enzyme Therapeutic for COVIDâ€19. Advanced Materials, 2020, 32, e2004901.	11.1	61
42	One-step nucleotide-programmed growth of porous upconversion nanoparticles: application to cell labeling and drug delivery. Nanoscale, 2014, 6, 1445-1452.	2.8	60
43	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.	6.7	59
44	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.	2.2	55
45	Phenol-like group functionalized graphene quantum dots structurally mimicking natural antioxidants for highly efficient acute kidney injury treatment. Chemical Science, 2020, 11, 12721-12730.	3.7	54
46	Antiâ€Biofouling Polymerâ€Decorated Lutetiumâ€Based Nanoparticulate Contrast Agents for In Vivo Highâ€Resolution Trimodal Imaging. Small, 2014, 10, 2429-2438.	5.2	52
47	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.	7.3	52
48	Artificial Metalloenzymeâ€Based Enzyme Replacement Therapy for the Treatment of Hyperuricemia. Advanced Functional Materials, 2016, 26, 7921-7928.	7.8	51
49	Seleniumâ€Based Nanozyme as Biomimetic Antioxidant Machinery. Chemistry - A European Journal, 2018, 24, 10224-10230.	1.7	51
50	Inhibition of metal-induced amyloid aggregation using light-responsive magnetic nanoparticle prochelator conjugates. Chemical Science, 2012, 3, 868-873.	3.7	50
51	Magnetic Self-Assembled Zeolite Clusters for Sensitive Detection and Rapid Removal of Mercury(II). ACS Applied Materials & Interfaces, 2012, 4, 431-437.	4.0	50
52	Metalâ€“organic-framework-supported immunostimulatory oligonucleotides for enhanced immune response and imaging. Chemical Communications, 2017, 53, 1840-1843.	2.2	50
53	A bifunctional nanomodulator for boosting CpG-mediated cancer immunotherapy. Nanoscale, 2017, 9, 14236-14247.	2.8	48
54	Biocompatible and high-performance amino acids-capped MnWO4 nanocasting as a novel non-lanthanide contrast agent for X-ray computed tomography and T1-weighted magnetic resonance imaging. Nanoscale, 2014, 6, 2211.	2.8	45

#	Article	IF	Citations
55	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.	2.8	43
56	Single-layer tungsten oxide as intelligent photo-responsive nanoagents for permanent male sterilization. Biomaterials, 2015, 69, 56-64.	5.7	39
57	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.	1.3	38
58	Nucleic acidâ€“mesoporous silica nanoparticle conjugates for keypad lock security operation. Chemical Communications, 2013, 49, 2305.	2.2	37
59	Ultrasensitive magnetic resonance imaging of systemic reactive oxygen species in vivo for early diagnosis of sepsis using activatable nanoprobes. Chemical Science, 2019, 10, 3770-3778.	3.7	37
60	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, 2528-2537.	1.2	35
61	Hierarchical magnetic coreâ€“shell nanoarchitectures: non-linker reagent synthetic route and applications in a biomolecule separation system. Journal of Materials Chemistry, 2012, 22, 2935-2942.	6.7	33
62	Nearâ€Infraredâ€Controlled, Targeted Hydrophobic Drugâ€Delivery System for Synergistic Cancer Therapy. Chemistry - A European Journal, 2013, 19, 10388-10394.	1.7	33
63	Non-toxic lead sulfide nanodots as efficient contrast agents for visualizing gastrointestinal tract. Biomaterials, 2016, 100, 17-26.	5.7	32
64	Aggregation-induced emission-active Au nanoclusters for ratiometric sensing and bioimaging of highly reactive oxygen species. Chemical Communications, 2019, 55, 15097-15100.	2.2	31
65	Repeated functional convergent effects of Na _V 1.7 on acid insensitivity in hibernating mammals. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132950.	1.2	24
66	Easy access to selective binding and recyclable separation of histidine-tagged proteins using Ni2+-decorated superparamagnetic nanoparticles. Nano Research, 2012, 5, 450-459.	5.8	23
67	Aptamerâ€Directed Synthesis of Multifunctional Lanthanideâ€Doped Porous Nanoprobes for Targeted Imaging and Drug Delivery. Small, 2013, 9, 4262-4268.	5.2	23
68	Combination Delivery of Antigens and CpG by Lanthanidesâ€Based Coreâ€Shell Nanoparticles for Enhanced Immune Response and Dualâ€Mode Imaging. Advanced Healthcare Materials, 2013, 2, 1309-1313.	3.9	22
69	Manganese Dioxide Nanozymes as Responsive Cytoprotective Shells for Individual Living Cell Encapsulation. Angewandte Chemie, 2017, 129, 13849-13853.	1.6	16
70	Embedding magnetic nanoparticles into coordination polymers to mimic zinc ion transporters for targeted tumor therapy. Chemical Communications, 2016, 52, 12598-12601.	2.2	11
71	An intelligent near-infrared light activatable nanosystem for accurate regulation of zinc signaling in living cells. Nano Research, 2017, 10, 3068-3076.	5.8	7
72	Bioorthogonal chemistry for selective recognition, separation and killing bacteria over mammalian cells. Chemical Communications, 2016, 52, 3482-3485.	2.2	6

#	Article	IF	Citations
73	Versatile Fluorescent Conjugated Polyelectrolyteâ€Capped Mesoporous Silica Nanoparticles for Controlled Drug Delivery and Imaging. ChemPlusChem, 2013, 78, 656-662.	1.3	5
74	Conformational switch-mediated accelerated release of drug from cytosine-rich nucleic acid-capped magnetic nanovehicles. Chemical Communications, 2016, 52, 3364-3367.	2.2	4
75	Drug Delivery: Nearâ€Infrared Lightâ€Triggered, Targeted Drug Delivery to Cancer Cells by Aptamer Gated Nanovehicles (Adv. Mater. 21/2012). Advanced Materials, 2012, 24, 2798-2798.	11.1	1
76	Catalaseâ€Based Therapeutics: An Antioxidant Enzyme Therapeutic for COVIDâ€19 (Adv. Mater. 43/2020). Advanced Materials, 2020, 32, 2070321.	11.1	1