Zhaowei Chen

List of Publications by Citations

94 papers	5,697 citations	42 h-index	74 g-index
95 ext. papers	6,934 ext. citations	12.4 avg, IF	6.13 L-index

#	Paper	IF	Citations
94	Biomimetic nanoflowers by self-assembly of nanozymes to induce intracellular oxidative damage against hypoxic tumors. *Nature Communications*, **2018**, 9, 3334	17.4	308
93	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
92	Recent advances in bioapplications of C-dots. *Carbon*, **2015**, 85, 309-327	10.4	280
91	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
90	Enzyme Mimicry for Combating Bacteria and Biofilms. *Accounts of Chemical Research*, **2018**, 51, 789-799	24.3	216
89	Light controlled reversible inversion of nanophosphor-stabilized Pickering emulsions for biphasic enantioselective biocatalysis. *Journal of the American Chemical Society*, **2014**, 136, 7498-504	16.4	190
88	Mesoporous silica-encapsulated gold nanoparticles as artificial enzymes for self-activated cascade catalysis. *Biomaterials*, **2013**, 34, 2600-10	15.6	177
87	Visible-light-driven enhanced antibacterial and biofilm elimination activity of graphitic carbon nitride by embedded Ag nanoparticles. *Nano Research*, **2015**, 8, 1648-1658	10	155
86	Metal-Organic-Framework-Based Vaccine Platforms for Enhanced Systemic Immune and Memory Response. *Advanced Functional Materials*, **2016**, 26, 6454-6461	15.6	152
85	Bacterial Hyaluronidase Self-Triggered Prodrug Release for Chemo-Photothermal Synergistic Treatment of Bacterial Infection. *Small*, **2016**, 12, 6200-6206	11	150
84	A multi-stimuli responsive gold nanocage-hyaluronic platform for targeted photothermal and chemotherapy. *Biomaterials*, **2014**, 35, 9678-88	15.6	149
83	Engineered Nanoplatelets for Enhanced Treatment of Multiple Myeloma and Thrombus. *Advanced Materials*, **2016**, 28, 9573-9580	24	147
82	A Multinuclear Metal Complex Based DNase-Mimetic Artificial Enzyme: Matrix Cleavage for Combating Bacterial Biofilms. *Angewandte Chemie - International Edition*, **2016**, 55, 10732-6	16.4	134
81	Core-Shell Microneedle Gel for Self-Regulated Insulin Delivery. *ACS Nano*, **2018**, 12, 2466-2473	16.7	132
80	Bioresponsive hyaluronic acid-capped mesoporous silica nanoparticles for targeted drug delivery. *Chemistry - A European Journal*, **2013**, 19, 1778-83	4.8	132
79	Engineering PD-1-Presenting Platelets for Cancer Immunotherapy. *Nano Letters*, **2018**, 18, 5716-5725	11.5	113
78	Synthetic beta cells for fusion-mediated dynamic insulin secretion. *Nature Chemical Biology*, **2018**, 14, 86-93	11.7	110

77	Enhanced Endosomal Escape by Light-Fueled Liquid-Metal Transformer. *Nano Letters*, **2017**, 17, 2138-2145	11.5	109
76	DNA metallization: principles, methods, structures, and applications. *Chemical Society Reviews*, **2018**, 47, 4017-4072	58.5	108
75	Design of Surface-Active Artificial Enzyme Particles to Stabilize Pickering Emulsions for High-Performance Biphasic Biocatalysis. *Advanced Materials*, **2016**, 28, 1682-8	24	105
74	Biomineralization inspired surface engineering of nanocarriers for pH-responsive, targeted drug delivery. *Biomaterials*, **2013**, 34, 1364-71	15.6	104
73	DNA-mediated construction of hollow upconversion nanoparticles for protein harvesting and near-infrared light triggered release. *Advanced Materials*, **2014**, 26, 2424-30	24	99
72	Noninvasive and Reversible Cell Adhesion and Detachment via Single-Wavelength Near-Infrared Laser Mediated Photoisomerization. *Journal of the American Chemical Society*, **2015**, 137, 8199-205	16.4	91
71	A Therapeutic Microneedle Patch Made from Hair-Derived Keratin for Promoting Hair Regrowth. *ACS Nano*, **2019**, 13, 4354-4360	16.7	88
70	Individual surface-engineered microorganisms as robust Pickering interfacial biocatalysts for resistance-minimized phase-transfer bioconversion. *Angewandte Chemie - International Edition*, **2015**, 54, 4904-8	16.4	86
69	Upconversion nanoprobes for efficiently in□vitro imaging reactive oxygen species and in□vivo diagnosing rheumatoid arthritis. *Biomaterials*, **2015**, 39, 15-22	15.6	86
68	Bioinspired and Biomimetic Nanomedicines. *Accounts of Chemical Research*, **2019**, 52, 1255-1264	24.3	80
67	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
66	Leveraging Engineering of Cells for Drug Delivery. *Accounts of Chemical Research*, **2018**, 51, 668-677	24.3	77
65	Near-infrared absorbing mesoporous carbon nanoparticle as an intelligent drug carrier for dual-triggered synergistic cancer therapy. *Carbon*, **2015**, 82, 479-488	10.4	74
64	Chinese Ink: A Powerful Photothermal Material for Solar Steam Generation. *Advanced Materials Interfaces*, **2019**, 6, 1801252	4.6	74
63	Advances in nanomedicine for cancer starvation therapy. *Theranostics*, **2019**, 9, 8026-8047	12.1	73
62	A NIR-controlled cage mimicking system for hydrophobic drug mediated cancer therapy. *Biomaterials*, **2017**, 139, 151-162	15.6	72
61	Upconverting nanoparticles with a mesoporous TiO□shell for near-infrared-triggered drug delivery and synergistic targeted cancer therapy. *Chemistry - A European Journal*, **2014**, 20, 14012-7	4.8	72
60	A Multi-synergistic Platform for Sequential Irradiation-Activated High-Performance Apoptotic Cancer Therapy. *Advanced Functional Materials*, **2014**, 24, 522-529	15.6	72

59	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
58	Charge-switchable polymeric complex for glucose-responsive insulin delivery in mice and pigs. *Science Advances*, **2019**, 5, eaaw4357	14.3	62
57	Hybridization chain reaction engineered dsDNA for Cu metallization: an enzyme-free platform for amplified detection of cancer cells and microRNAs. *Chemical Communications*, **2015**, 51, 11496-9	5.8	62
56	Porphyrin Covalent Organic Framework (POF)-Based Interface Engineering for Solar Steam Generation. *Advanced Materials Interfaces*, **2019**, 6, 1900254	4.6	59
55	Atomic layer deposition for membrane interface engineering. *Nanoscale*, **2018**, 10, 20505-20513	7.7	53
54	Transmutation of Personal Glucose Meters into Portable and Highly Sensitive Microbial Pathogen Detection Platform. *Small*, **2015**, 11, 4970-5	11	44
53	DNA-mediated biomineralization of rare-earth nanoparticles for simultaneous imaging and stimuli-responsive drug delivery. *Biomaterials*, **2014**, 35, 8694-702	15.6	43
52	KO of 5-InsP kinase activity transforms the HCT116 colon cancer cell line into a hypermetabolic, growth-inhibited phenotype. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11968-11973	11.5	39
51	Silver metallization engineered conformational switch of G-quadruplex for fluorescence turn-on detection of biothiols. *Chemical Communications*, **2012**, 48, 11428-30	5.8	34
50	Transdermal colorimetric patch for hyperglycemia sensing in diabetic mice. *Biomaterials*, **2020**, 237, 119782	15.6	32
49	Photogenerated Holes Mediated Nitric Oxide Production for Hypoxic Tumor Treatment. *Angewandte Chemie - International Edition*, **2021**, 60, 7046-7050	16.4	31
48	Bioorthogonal catalytic patch. *Nature Nanotechnology*, **2021**, 16, 933-941	28.7	30
47	Local and Targeted Delivery of Immune Checkpoint Blockade Therapeutics. *Accounts of Chemical Research*, **2020**, 53, 2521-2533	24.3	29
46	Platinum-coordinated graphitic carbon nitride nanosheet used for targeted inhibition of amyloid β peptide aggregation. *Nano Research*, **2016**, 9, 2411-2423	10	28
45	Investigation and intervention of autophagy to guide cancer treatment with nanogels. *Nanoscale*, **2017**, 9, 150-163	7.7	27
44	Semi-artificial Photosynthetic CO Reduction through Purple Membrane Re-engineering with Semiconductor. *Journal of the American Chemical Society*, **2019**, 141, 11811-11815	16.4	26
43	Light-Gated Synthetic Protocells for Plasmon-Enhanced Chemiosmotic Gradient Generation and ATP Synthesis. *Angewandte Chemie - International Edition*, **2019**, 58, 4896-4900	16.4	25
42	A Multinuclear Metal Complex Based DNase-Mimetic Artificial Enzyme: Matrix Cleavage for Combating Bacterial Biofilms. *Angewandte Chemie*, **2016**, 128, 10890-10894	3.6	24

41	Ionic liquid-assisted synthesis of multicolor luminescent silica nanodots and their use as anticounterfeiting ink. *ACS Applied Materials & Interfaces*, **2015**, 7, 2905-11	9.5	23
40	An ultrathin graphitic carbon nitride nanosheet: a novel inhibitor of metal-induced amyloid aggregation associated with Alzheimer's disease. *Journal of Materials Chemistry B*, **2016**, 4, 4072-4075	7.3	23
39	Graphitic carbon nitride nanosheets as a multifunctional nanoplatform for photochemical internalization-enhanced photodynamic therapy. *Journal of Materials Chemistry B*, **2018**, 6, 7908-7915	7.3	22
38	Iono-Elastomer-Based Wearable Strain Sensor with Real-Time Thermomechanical Dual Response. *ACS Applied Materials & Interfaces*, **2018**, 10, 32435-32443	9.5	21
37	Individual Surface-Engineered Microorganisms as Robust Pickering Interfacial Biocatalysts for Resistance-Minimized Phase-Transfer Bioconversion. *Angewandte Chemie*, **2015**, 127, 4986-4990	3.6	20
36	Ferric tannate photothermal material for efficient water distillation. *Environmental Science: Water Research and Technology*, **2020**, 6, 911-915	4.2	20
35	Disrupting tumour vasculature and recruitment of aPDL1-loaded platelets control tumour metastasis. *Nature Communications*, **2021**, 12, 2773	17.4	13
34	Biomimetic nanoassembly for targeted antigen delivery and enhanced Th1-type immune response. *Chemical Communications*, **2015**, 51, 15975-8	5.8	12
33	Cargo-encapsulated cells for drug delivery. *Science China Life Sciences*, **2020**, 63, 599-601	8.5	12
32	In situ fabrication of organic electrochemical transistors on a microfluidic chip. *Nano Research*, **2019**, 12, 1943-1951	10	12
31	Confinement of Reactive Oxygen Species in an Artificial-Enzyme-Based Hollow Structure To Eliminate Adverse Effects of Photocatalysis on UV Filters. *Chemistry - A European Journal*, **2017**, 23, 13518-13524	4.8	12
30	Intracellular gold nanoclusters boost energy conversion. *Nature Nanotechnology*, **2018**, 13, 880-881	28.7	12
29	Engineered Nanoscale Vanadium Metallodrugs for Robust Tumor-Specific Imaging and Therapy. *Advanced Functional Materials*, **2021**, 31, 2010337	15.6	11
28	Coupling exonuclease III with DNA metallization for amplified detection of biothiols at picomolar concentration. *Biosensors and Bioelectronics*, **2014**, 58, 214-8	11.8	10
27	Solar Steam: Chinese Ink: A Powerful Photothermal Material for Solar Steam Generation (Adv. Mater. Interfaces 1/2019). *Advanced Materials Interfaces*, **2019**, 6, 1970002	4.6	10
26	Embedding magnetic nanoparticles into coordination polymers to mimic zinc ion transporters for targeted tumor therapy. *Chemical Communications*, **2016**, 52, 12598-12601	5.8	9
25	Scattered seeding of CAR T cells in solid tumors augments anticancer efficacy.. *National Science Review*, **2022**, 9, nwab172	10.8	9
24	Light-Gated Synthetic Protocells for Plasmon-Enhanced Chemiosmotic Gradient Generation and ATP Synthesis. *Angewandte Chemie*, **2019**, 131, 4950-4954	3.6	8

23	Cytosolic Delivery of Thiolated Mn-cGAMP Nanovaccine to Enhance the Antitumor Immune Responses. *Small*, **2021**, 17, e2006970	11	8
22	An intelligent near-infrared light activatable nanosystem for accurate regulation of zinc signaling in living cells. *Nano Research*, **2017**, 10, 3068-3076	10	7
21	Growth of hydrophilic CuS nanowires via DNA-mediated self-assembly process and their use in fabricating smart hybrid films for adjustable chemical release. *Chemistry - A European Journal*, **2015**, 21, 2930-5	4.8	7
20	Adipocyte-Derived Anticancer Lipid Droplets. *Advanced Materials*, **2021**, 33, e2100629	24	7
19	Wireless Optogenetic Modulation of Cortical Neurons Enabled by Radioluminescent Nanoparticles. *ACS Nano*, **2021**, 15, 5201-5208	16.7	7
18	Synthesis Characterization of Platinum (IV) Complex Curcumin Backboned Polyprodrugs: In Vitro Drug Release Anticancer Activity. *Polymers*, **2020**, 13,	4.5	6
17	Flexible patch with printable and antibacterial conductive hydrogel electrodes for accelerated wound healing.. *Biomaterials*, **2022**, 285, 121479	15.6	6
16	Water Treatment: Porphyrin Covalent Organic Framework (POF)-Based Interface Engineering for Solar Steam Generation (Adv. Mater. Interfaces 11/2019). *Advanced Materials Interfaces*, **2019**, 6, 1970072	4.6	5
15	Energy Transfer Induced by Dye Encapsulation in a Hybrid Nanoparticle-Purple Membrane Reversible Assembly. *Advanced Functional Materials*, **2019**, 29, 1904899	15.6	5
14	Roadmap on nanomedicine. *Nanotechnology*, **2021**, 32, 012001	3.4	5
13	Nanotechnology lights up the antitumor potency by combining chemotherapy with siRNA. *Journal of Materials Chemistry B*, **2021**, 9, 7302-7317	7.3	5
12	Topographical nanostructures for physical sterilization. *Drug Delivery and Translational Research*, **2021**, 11, 1376-1389	6.2	5
11	Localized DNA catalytic hairpin assembly reaction on DNA origami for tumor-associated microRNA detection and imaging in live cells. *Sensors and Actuators B: Chemical*, **2021**, 344, 130195	8.5	5
10	Bioorthogonal chemistry for selective recognition, separation and killing bacteria over mammalian cells. *Chemical Communications*, **2016**, 52, 3482-5	5.8	4
9	Gaseous Plastron on Natural and Biomimetic Surfaces for Resisting Marine Biofouling. *Molecules*, **2021**, 26,	4.8	4
8	A multifunctional platinum(IV) and cyanine dye-based polyprodrug for trimodal imaging-guided chemo-phototherapy.. *Journal of Materials Chemistry B*, **2022**,	7.3	3
7	Cellular transformers for targeted therapy. *Advanced Drug Delivery Reviews*, **2021**, 179, 114032	18.5	3
6	pH and Reduction Dual-Responsive Bi-Drugs Conjugated Dextran Assemblies for Combination Chemotherapy and In Vitro Evaluation. *Polymers*, **2021**, 13,	4.5	3

List of Publications

5	Photogenerated Holes Mediated Nitric Oxide Production for Hypoxic Tumor Treatment. *Angewandte Chemie*, **2021**, 133, 7122-7126	3.6	3
4	An Amphiphilic Carbonaceous/Nanosilver Composite-Incorporated Urinary Catheter for Long-Term Combating Bacteria and Biofilms. *ACS Applied Materials & Interfaces*, **2021**, 13, 38029-38039	9.5	3
3	Multistage Cooperative Nanodrug Combined with PD-L1 for Enhancing Antitumor Chemoimmunotherapy. *Advanced Healthcare Materials*, **2021**, 10, e2101199	10.1	3
2	Bioorthogonal catalysis for biomedical applications. *Trends in Chemistry*, **2022**, 4, 157-168	14.8	2
1	Cancer Therapy: Adipocyte-Derived Anticancer Lipid Droplets (Adv. Mater. 26/2021). *Advanced Materials*, **2021**, 33, 2170198	24	