Zhen Yang

List of Publications by Citations

80 papers	5,746 citations	43 h-index	75 g-index
84 ext. papers	7,269 ext. citations	13.5 avg, IF	5.85 L-index

#	Paper	IF	Citations
80	Simultaneous Fenton-like Ion Delivery and Glutathione Depletion by MnO -Based Nanoagent to Enhance Chemodynamic Therapy. *Angewandte Chemie - International Edition*, **2018**, 57, 4902-4906	16.4	654
79	Glucose-Responsive Sequential Generation of Hydrogen Peroxide and Nitric Oxide for Synergistic Cancer Starving-Like/Gas Therapy. *Angewandte Chemie - International Edition*, **2017**, 56, 1229-1233	16.4	367
78	Fenton-Reaction-Acceleratable Magnetic Nanoparticles for Ferroptosis Therapy of Orthotopic Brain Tumors. *ACS Nano*, **2018**, 12, 11355-11365	16.7	256
77	Activatable Singlet Oxygen Generation from Lipid Hydroperoxide Nanoparticles for Cancer Therapy. *Angewandte Chemie - International Edition*, **2017**, 56, 6492-6496	16.4	245
76	Toxic Reactive Oxygen Species Enhanced Synergistic Combination Therapy by Self-Assembled Metal-Phenolic Network Nanoparticles. *Advanced Materials*, **2018**, 30, 1704877	24	211
75	Perylene-diimide-based nanoparticles as highly efficient photoacoustic agents for deep brain tumor imaging in living mice. *Advanced Materials*, **2015**, 27, 843-7	24	197
74	Organic Semiconducting Photoacoustic Nanodroplets for Laser-Activatable Ultrasound Imaging and Combinational Cancer Therapy. *ACS Nano*, **2018**, 12, 2610-2622	16.7	145
73	Polyrotaxane-based supramolecular theranostics. *Nature Communications*, **2018**, 9, 766	17.4	138
72	Activatable Semiconducting Theranostics: Simultaneous Generation and Ratiometric Photoacoustic Imaging of Reactive Oxygen Species In Vivo. *Advanced Materials*, **2018**, 30, e1707509	24	133
71	Simultaneous Fenton-like Ion Delivery and Glutathione Depletion by MnO2-Based Nanoagent to Enhance Chemodynamic Therapy. *Angewandte Chemie*, **2018**, 130, 4996-5000	3.6	125
70	Transformative Nanomedicine of an Amphiphilic Camptothecin Prodrug for Long Circulation and High Tumor Uptake in Cancer Therapy. *ACS Nano*, **2017**, 11, 8838-8848	16.7	118
69	Impact of Semiconducting Perylene Diimide Nanoparticle Size on Lymph Node Mapping and Cancer Imaging. *ACS Nano*, **2017**, 11, 4247-4255	16.7	117
68	Solvent-Assisted Self-Assembly of a Metal-Organic Framework Based Biocatalyst for Cascade Reaction Driven Photodynamic Therapy. *Journal of the American Chemical Society*, **2020**, 142, 6822-6832	16.4	109
67	Rational Design of Branched Nanoporous Gold Nanoshells with Enhanced Physico-Optical Properties for Optical Imaging and Cancer Therapy. *ACS Nano*, **2017**, 11, 6102-6113	16.7	108
66	Enhanced Afterglow Performance of Persistent Luminescence Implants for Efficient Repeatable Photodynamic Therapy. *ACS Nano*, **2017**, 11, 5864-5872	16.7	105
65	Hypochlorous Acid Promoted Platinum Drug Chemotherapy by Myeloperoxidase-Encapsulated Therapeutic Metal Phenolic Nanoparticles. *ACS Nano*, **2018**, 12, 455-463	16.7	98
64	In Situ Dendritic Cell Vaccine for Effective Cancer Immunotherapy. *ACS Nano*, **2019**, 13, 3083-3094	16.7	97

63	Glutathione-Responsive Self-Assembled Magnetic Gold Nanowreath for Enhanced Tumor Imaging and Imaging-Guided Photothermal Therapy. *ACS Nano*, **2018**, 12, 8129-8137	16.7	95
62	Near-Infrared Semiconducting Polymer Brush and pH/GSH-Responsive Polyoxometalate Cluster Hybrid Platform for Enhanced Tumor-Specific Phototheranostics. *Angewandte Chemie - International Edition*, **2018**, 57, 14101-14105	16.4	94
61	Self-Assembled Responsive Bilayered Vesicles with Adjustable Oxidative Stress for Enhanced Cancer Imaging and Therapy. *Journal of the American Chemical Society*, **2019**, 141, 8158-8170	16.4	93
60	Wet/Sono-Chemical Synthesis of Enzymatic Two-Dimensional MnO Nanosheets for Synergistic Catalysis-Enhanced Phototheranostics. *Advanced Materials*, **2019**, 31, e1900401	24	91
59	Semiconducting Perylene Diimide Nanostructure: Multifunctional Phototheranostic Nanoplatform. *Accounts of Chemical Research*, **2019**, 52, 1245-1254	24.3	90
58	Double-Layered Plasmonic-Magnetic Vesicles by Self-Assembly of Janus Amphiphilic Gold-Iron(II,III) Oxide Nanoparticles. *Angewandte Chemie - International Edition*, **2017**, 56, 8110-8114	16.4	88
57	Artificial local magnetic field inhomogeneity enhances T relaxivity. *Nature Communications*, **2017**, 8, 15468	17.4	87
56	In Situ Polymerized Hollow Mesoporous Organosilica Biocatalysis Nanoreactor for Enhancing ROS-Mediated Anticancer Therapy. *Advanced Functional Materials*, **2020**, 30, 1907716	15.6	81
55	Yolk-Shell Nanostructure: An Ideal Architecture to Achieve Harmonious Integration of Magnetic-Plasmonic Hybrid Theranostic Platform. *Advanced Materials*, **2017**, 29, 1606681	24	76
54	Stimuli-Responsive Nanotheranostics for Real-Time Monitoring Drug Release by Photoacoustic Imaging. *Theranostics*, **2019**, 9, 526-536	12.1	75
53	Precision Cancer Theranostic Platform by In Situ Polymerization in Perylene Diimide-Hybridized Hollow Mesoporous Organosilica Nanoparticles. *Journal of the American Chemical Society*, **2019**, 141, 14687-14698	16.4	74
52	A Phototheranostic Strategy to Continuously Deliver Singlet Oxygen in the Dark and Hypoxic Tumor Microenvironment. *Angewandte Chemie - International Edition*, **2020**, 59, 8833-8838	16.4	70
51	Organic Semiconducting Nanoparticles as Efficient Photoacoustic Agents for Lightening Early Thrombus and Monitoring Thrombolysis in Living Mice. *ACS Nano*, **2017**, 11, 3298-3310	16.7	66
50	Generic synthesis of small-sized hollow mesoporous organosilica nanoparticles for oxygen-independent X-ray-activated synergistic therapy. *Nature Communications*, **2019**, 10, 1241	17.4	65
49	A Rationally Designed Semiconducting Polymer Brush for NIR-II Imaging-Guided Light-Triggered Remote Control of CRISPR/Cas9 Genome Editing. *Advanced Materials*, **2019**, 31, e1901187	24	65
48	Self-Assembly of Semiconducting-Plasmonic Gold Nanoparticles with Enhanced Optical Property for Photoacoustic Imaging and Photothermal Therapy. *Theranostics*, **2017**, 7, 2177-2185	12.1	65
47	Tumour microenvironment-responsive semiconducting polymer-based self-assembly nanotheranostics. *Nanoscale Horizons*, **2019**, 4, 426-433	10.8	64
46	A Single Composition Architecture-Based Nanoprobe for Ratiometric Photoacoustic Imaging of Glutathione (GSH) in Living Mice. *Small*, **2018**, 14, e1703400	11	63

45	Acidity/Reducibility Dual-Responsive Hollow Mesoporous Organosilica Nanoplatforms for Tumor-Specific Self-Assembly and Synergistic Therapy. *ACS Nano*, **2018**, 12, 12269-12283	16.7	61
44	Activating Macrophage-Mediated Cancer Immunotherapy by Genetically Edited Nanoparticles. *Advanced Materials*, **2020**, 32, e2004853	24	58
43	Cooperation of endogenous and exogenous reactive oxygen species induced by zinc peroxide nanoparticles to enhance oxidative stress-based cancer therapy. *Theranostics*, **2019**, 9, 7200-7209	12.1	49
42	Supramolecular Hybrid Material Constructed from Graphene Oxide and Pillar[6]arene-Based Host-Guest Complex as a Ultrasound and Photoacoustic Signals Nanoamplifier. *Materials Horizons*, **2018**, 5, 429-435	14.4	46
41	Organosilica-Based Hollow Mesoporous Bilirubin Nanoparticles for Antioxidation-Activated Self-Protection and Tumor-Specific Deoxygenation-Driven Synergistic Therapy. *ACS Nano*, **2019**, 13, 8903-8916	16.7	45
40	Activatable Singlet Oxygen Generation from Lipid Hydroperoxide Nanoparticles for Cancer Therapy. *Angewandte Chemie*, **2017**, 129, 6592-6596	3.6	44
39	In situ polymerization on nanoscale metal-organic frameworks for enhanced physiological stability and stimulus-responsive intracellular drug delivery. *Biomaterials*, **2019**, 218, 119365	15.6	44
38	Glucose-Responsive Sequential Generation of Hydrogen Peroxide and Nitric Oxide for Synergistic Cancer Starving-Like/Gas Therapy. *Angewandte Chemie*, **2017**, 129, 1249-1253	3.6	43
37	Self-assembled green tea polyphenol-based coordination nanomaterials to improve chemotherapy efficacy by inhibition of carbonyl reductase 1. *Biomaterials*, **2019**, 210, 62-69	15.6	40
36	Homogeneous near-infrared emissive polymeric nanoparticles based on amphiphilic diblock copolymers with perylene diimide and PEG pendants: self-assembly behavior and cellular imaging application. *Polymer Chemistry*, **2014**, 5, 1372-1380	4.9	39
35	Recent Advances in Stimuli-Responsive Platforms for Cancer Immunotherapy. *Accounts of Chemical Research*, **2020**, 53, 2044-2054	24.3	39
34	Perylene Diimide-Grafted Polymeric Nanoparticles Chelated with Gd for Photoacoustic/T-Weighted Magnetic Resonance Imaging-Guided Photothermal Therapy. *ACS Applied Materials & Interfaces*, **2017**, 9, 30458-30469	9.5	38
33	Burst release of encapsulated annexin A5 in tumours boosts cytotoxic T-cell responses by blocking the phagocytosis of apoptotic cells. *Nature Biomedical Engineering*, **2020**, 4, 1102-1116	19	35
32	Controllable synthesis of versatile mesoporous organosilica nanoparticles as precision cancer theranostics. *Biomaterials*, **2020**, 256, 120191	15.6	33
31	A small-molecule probe for ratiometric photoacoustic imaging of hydrogen sulfide in living mice. *Chemical Communications*, **2019**, 55, 5934-5937	5.8	32
30	Core-shell metal-organic frameworks with fluorescence switch to trigger an enhanced photodynamic therapy. *Theranostics*, **2019**, 9, 2791-2799	12.1	30
29	A Water-Soluble Conjugated Polymer with Pendant Disulfide Linkages to PEG Chains: A Highly Efficient Ratiometric Probe with Solubility-Induced Fluorescence Conversion for Thiol Detection. *Macromolecules*, **2015**, 48, 1017-1025	5.5	30
28	A hybrid semiconducting organosilica-based O nanoeconomizer for on-demand synergistic photothermally□boosted radiotherapy. *Nature Communications*, **2021**, 12, 523	17.4	30

27	Small-sized gadolinium oxide based nanoparticles for high-efficiency theranostics of orthotopic glioblastoma. *Biomaterials*, **2020**, 235, 119783	15.6	29
26	Monodispersed grafted conjugated polyelectrolyte-stabilized magnetic nanoparticles as multifunctional platform for cellular imaging and drug delivery. *Journal of Materials Chemistry B*, **2014**, 2, 376-386	7.3	28
25	Tumor Microenvironment-Activated Ultrasensitive Nanoprobes for Specific Detection of Intratumoral Glutathione by Ratiometric Photoacoustic Imaging. *ACS Applied Materials & Interfaces*, **2019**, 11, 27558-27567	9.5	26
24	Oxygen-Evolving Manganese Ferrite Nanovesicles for Hypoxia-Responsive Drug Delivery and Enhanced Cancer Chemoimmunotherapy. *Advanced Functional Materials*, **2021**, 31, 2008078	15.6	25
23	Near-Infrared Semiconducting Polymer Brush and pH/GSH-Responsive Polyoxometalate Cluster Hybrid Platform for Enhanced Tumor-Specific Phototheranostics. *Angewandte Chemie*, **2018**, 130, 14297-14301	3.6	25
22	Lysosome-Assisted Mitochondrial Targeting Nanoprobe Based on Dye-Modified Upconversion Nanophosphors for Ratiometric Imaging of Mitochondrial Hydrogen Sulfide. *ACS Applied Materials & Interfaces*, **2018**, 10, 39544-39556	9.5	24
21	Double-Layered Plasmonic–Magnetic Vesicles by Self-Assembly of Janus Amphiphilic Gold–Iron(II,III) Oxide Nanoparticles. *Angewandte Chemie*, **2017**, 129, 8222-8226	3.6	23
20	Exceedingly Small Gadolinium Oxide Nanoparticles with Remarkable Relaxivities for Magnetic Resonance Imaging of Tumors. *Small*, **2019**, 15, e1903422	11	22
19	Chemiluminescence-initiated and -enhanced photoisomerization for tissue-depth-independent photo-controlled drug release. *Chemical Science*, **2019**, 10, 1401-1409	9.4	22
18	Ratiometric Photoacoustic Nanoprobe for Bioimaging of Cu. *ACS Applied Materials & Interfaces* , **2019**, 11, 1917-1923	9.5	21
17	Fluorescent oligo(p-phenyleneethynylene) contained amphiphiles-encapsulated magnetic nanoparticles for targeted magnetic resonance and two-photon optical imaging in vitro and in vivo. *Nanoscale*, **2015**, 7, 8907-19	7.7	18
16	Rational design of semiconducting polymer brushes as cancer theranostics. *Materials Horizons*, **2020**, 7, 1474-1494	14.4	17
15	PET imaging of EGFR expression using an F-labeled RNA aptamer. *European Journal of Nuclear Medicine and Molecular Imaging*, **2019**, 46, 948-956	8.8	16
14	Singlet Oxygen "Afterglow" Therapy with NIR-II Fluorescent Molecules. *Advanced Materials*, **2021**, 33, e2103627	24	12
13	A Logic-Gated Modular Nanovesicle Enables Programmable Drug Release for On-Demand Chemotherapy. *Theranostics*, **2019**, 9, 1358-1368	12.1	11
12	Phototherapy meets immunotherapy: a win–win strategy to fight against cancer. *Nanophotonics*, **2021**, 10, 3229-3245	6.3	11
11	Polyphenol-based nanoplatform for MRI/PET dual-modality imaging guided effective combination chemotherapy. *Journal of Materials Chemistry B*, **2019**, 7, 5688-5694	7.3	9
10	A Phototheranostic Strategy to Continuously Deliver Singlet Oxygen in the Dark and Hypoxic Tumor Microenvironment. *Angewandte Chemie*, **2020**, 132, 8918-8923	3.6	9

9	A water-soluble conjugated polymer with azobenzol side chains based on "turn-on" effect for hypoxic cell imaging. *Polymer Chemistry*, **2016**, 7, 6890-6894	4.9	9
8	Rational Design of All-Organic Nanoplatform for Highly Efficient MR/NIR-II Imaging-Guided Cancer Phototheranostics. *Small*, **2021**, 17, e2007566	11	7
7	Biphasic synthesis of biodegradable urchin-like mesoporous organosilica nanoparticles for enhanced cellular internalization and precision cascaded therapy. *Biomaterials Science*, **2021**, 9, 2584-2597	7.4	5
6	A Water-soluble Conjugated Polymer for Thiol Detection Based on "Turn-off" Effect. *Chinese Journal of Chemistry*, **2015**, 33, 881-887	4.9	4
5	Photoacoustic Imaging: Perylene-Diimide-Based Nanoparticles as Highly Efficient Photoacoustic Agents for Deep Brain Tumor Imaging in Living Mice (Adv. Mater. 5/2015). *Advanced Materials*, **2015**, 27, 774-774	24	4
4	Endogenous dual stimuli-activated NO generation in the conventional outflow pathway for precision glaucoma therapy. *Biomaterials*, **2021**, 277, 121074	15.6	2
3	Rücktitelbild: Glucose-Responsive Sequential Generation of Hydrogen Peroxide and Nitric Oxide for Synergistic Cancer Starving-Like/Gas Therapy (Angew. Chem. 5/2017). *Angewandte Chemie*, **2017**, 129, 1446-1446	3.6	1
2	Morphology-Tunable Fluorescent Nanoparticles: Synthesis, Photophysical Properties and Two-Photon Cell Imaging. *Chinese Journal of Chemistry*, **2015**, 33, 888-896	4.9	1
1	Photoacoustic Imaging: A Single Composition Architecture-Based Nanoprobe for Ratiometric Photoacoustic Imaging of Glutathione (GSH) in Living Mice (Small 11/2018). *Small*, **2018**, 14, 1870046	11	