

Zhen Yang

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

8,712
citations

38742

50
h-index

54911

84
g-index

84
all docs

84
docs citations

84
times ranked

8557
citing authors

#	ARTICLE	IF	CITATIONS
1	A generic self-assembly approach towards phototheranostics for NIR-II fluorescence imaging and phototherapy. <i>Acta Biomaterialia</i> , 2022, 140, 601-609.	8.3	17
2	Biphasic synthesis of biodegradable urchin-like mesoporous organosilica nanoparticles for enhanced cellular internalization and precision cascaded therapy. <i>Biomaterials Science</i> , 2021, 9, 2584-2597.	5.4	6
3	Oxygen-Evolving Manganese Ferrite Nanovesicles for Hypoxia-Responsive Drug Delivery and Enhanced Cancer Chemoimmunotherapy. <i>Advanced Functional Materials</i> , 2021, 31, 2008078.	14.9	65
4	A hybrid semiconducting organosilica-based O ₂ nanoeconomizer for on-demand synergistic photothermally-boosted radiotherapy. <i>Nature Communications</i> , 2021, 12, 523.	12.8	77
5	Rational Design of All-Organic Nanoplatfor for Highly Efficient MR/NIR-II Imaging-Guided Cancer Phototheranostics. <i>Small</i> , 2021, 17, e2007566.	10.0	27
6	Phototherapy meets immunotherapy: a win-win strategy to fight against cancer. <i>Nanophotonics</i> , 2021, 10, 3229-3245.	6.0	43
7	Singlet Oxygen "Afterglow" Therapy with NIR-II Fluorescent Molecules. <i>Advanced Materials</i> , 2021, 33, e2103627.	21.0	76
8	Endogenous dual stimuli-activated NO generation in the conventional outflow pathway for precision glaucoma therapy. <i>Biomaterials</i> , 2021, 277, 121074.	11.4	14
9	In Situ Polymerized Hollow Mesoporous Organosilica Biocatalysis Nanoreactor for Enhancing ROS-Mediated Anticancer Therapy. <i>Advanced Functional Materials</i> , 2020, 30, 1907716.	14.9	136
10	A Phototheranostic Strategy to Continuously Deliver Singlet Oxygen in the Dark and Hypoxic Tumor Microenvironment. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8833-8838.	13.8	139
11	Activating Macrophage-Mediated Cancer Immunotherapy by Genetically Edited Nanoparticles. <i>Advanced Materials</i> , 2020, 32, e2004853.	21.0	146
12	Recent Advances in Stimuli-Responsive Platforms for Cancer Immunotherapy. <i>Accounts of Chemical Research</i> , 2020, 53, 2044-2054.	15.6	72
13	Burst release of encapsulated annexin A5 in tumours boosts cytotoxic T-cell responses by blocking the phagocytosis of apoptotic cells. <i>Nature Biomedical Engineering</i> , 2020, 4, 1102-1116.	22.5	93
14	Controllable synthesis of versatile mesoporous organosilica nanoparticles as precision cancer theranostics. <i>Biomaterials</i> , 2020, 256, 120191.	11.4	49
15	Solvent-Assisted Self-Assembly of a Metal-Organic Framework Based Biocatalyst for Cascade Reaction Driven Photodynamic Therapy. <i>Journal of the American Chemical Society</i> , 2020, 142, 6822-6832.	13.7	201
16	Rational design of semiconducting polymer brushes as cancer theranostics. <i>Materials Horizons</i> , 2020, 7, 1474-1494.	12.2	40
17	Small-sized gadolinium oxide based nanoparticles for high-efficiency theranostics of orthotopic glioblastoma. <i>Biomaterials</i> , 2020, 235, 119783.	11.4	61
18	A Phototheranostic Strategy to Continuously Deliver Singlet Oxygen in the Dark and Hypoxic Tumor Microenvironment. <i>Angewandte Chemie</i> , 2020, 132, 8918-8923.	2.0	16

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19	PET imaging of EGFR expression using an 18F-labeled RNA aptamer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 948-956.	6.4	28
20	Organosilica-Based Hollow Mesoporous Bilirubin Nanoparticles for Antioxidation-Activated Self-Protection and Tumor-Specific Deoxygenation-Driven Synergistic Therapy. <i>ACS Nano</i> , 2019, 13, 8903-8916.	14.6	70
21	Tumor Microenvironment-Activated Ultrasensitive Nanoprobes for Specific Detection of Intratumoral Glutathione by Ratiometric Photoacoustic Imaging. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27558-27567.	8.0	46
22	In situ polymerization on nanoscale metal-organic frameworks for enhanced physiological stability and stimulus-responsive intracellular drug delivery. <i>Biomaterials</i> , 2019, 218, 119365.	11.4	80
23	Cooperation of endogenous and exogenous reactive oxygen species induced by zinc peroxide nanoparticles to enhance oxidative stress-based cancer therapy. <i>Theranostics</i> , 2019, 9, 7200-7209.	10.0	96
24	Precision Cancer Theranostic Platform by In Situ Polymerization in Perylene Diimide-Hybridized Hollow Mesoporous Organosilica Nanoparticles. <i>Journal of the American Chemical Society</i> , 2019, 141, 14687-14698.	13.7	105
25	Exceedingly Small Gadolinium Oxide Nanoparticles with Remarkable Relaxivities for Magnetic Resonance Imaging of Tumors. <i>Small</i> , 2019, 15, e1903422.	10.0	40
26	Polyphenol-based nanoplatform for MRI/PET dual-modality imaging guided effective combination chemotherapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5688-5694.	5.8	14
27	Tumour microenvironment-responsive semiconducting polymer-based self-assembling nanotheranostics. <i>Nanoscale Horizons</i> , 2019, 4, 426-433.	8.0	75
28	Core-shell metal-organic frameworks with fluorescence switch to trigger an enhanced photodynamic therapy. <i>Theranostics</i> , 2019, 9, 2791-2799.	10.0	53
29	Self-Assembled Responsive Bilayered Vesicles with Adjustable Oxidative Stress for Enhanced Cancer Imaging and Therapy. <i>Journal of the American Chemical Society</i> , 2019, 141, 8158-8170.	13.7	132
30	Self-assembled green tea polyphenol-based coordination nanomaterials to improve chemotherapy efficacy by inhibition of carbonyl reductase 1. <i>Biomaterials</i> , 2019, 210, 62-69.	11.4	62
31	A small-molecule probe for ratiometric photoacoustic imaging of hydrogen sulfide in living mice. <i>Chemical Communications</i> , 2019, 55, 5934-5937.	4.1	43
32	Generic synthesis of small-sized hollow mesoporous organosilica nanoparticles for oxygen-independent X-ray-activated synergistic therapy. <i>Nature Communications</i> , 2019, 10, 1241.	12.8	112
33	<i>In Situ</i> Dendritic Cell Vaccine for Effective Cancer Immunotherapy. <i>ACS Nano</i> , 2019, 13, 3083-3094.	14.6	164
34	A Logic-Gated Modular Nanovesicle Enables Programmable Drug Release for On-Demand Chemotherapy. <i>Theranostics</i> , 2019, 9, 1358-1368.	10.0	21
35	Wet/Sono- Chemical Synthesis of Enzymatic Two-Dimensional MnO_2 Nanosheets for Synergistic Catalysis-Enhanced Phototheranostics. <i>Advanced Materials</i> , 2019, 31, e1900401.	21.0	139
36	A Rationally Designed Semiconducting Polymer Brush for NIR-Imaging-Guided Light-Triggered Remote Control of CRISPR/Cas9 Genome Editing. <i>Advanced Materials</i> , 2019, 31, e1901187.	21.0	103

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37	Semiconducting Perylene Diimide Nanostructure: Multifunctional Phototheranostic Nanoplatfom. Accounts of Chemical Research, 2019, 52, 1245-1254.	15.6	138
38	Ratiometric Photoacoustic Nanoprobe for Bioimaging of Cu ²⁺ . ACS Applied Materials & Interfaces, 2019, 11, 1917-1923.	8.0	34
39	Chemiluminescence-initiated and <i>in situ</i> -enhanced photoisomerization for tissue-depth-independent photo-controlled drug release. Chemical Science, 2019, 10, 1401-1409.	7.4	41
40	Stimuli-Responsive Nanotheranostics for Real-Time Monitoring Drug Release by Photoacoustic Imaging. Theranostics, 2019, 9, 526-536.	10.0	98
41	Polyrotaxane-based supramolecular theranostics. Nature Communications, 2018, 9, 766.	12.8	191
42	A supramolecular hybrid material constructed from graphene oxide and a pillar[6]arene-based host-guest complex as an ultrasound and photoacoustic signal nanoamplifier. Materials Horizons, 2018, 5, 429-435.	12.2	59
43	Simultaneous Fenton-like Ion Delivery and Glutathione Depletion by MnO ₂ -Based Nanoagent to Enhance Chemodynamic Therapy. Angewandte Chemie - International Edition, 2018, 57, 4902-4906.	13.8	1,068
44	Simultaneous Fenton-like Ion Delivery and Glutathione Depletion by MnO ₂ -Based Nanoagent to Enhance Chemodynamic Therapy. Angewandte Chemie, 2018, 130, 4996-5000.	2.0	195
45	Organic Semiconducting Photoacoustic Nanodroplets for Laser-Activatable Ultrasound Imaging and Combinational Cancer Therapy. ACS Nano, 2018, 12, 2610-2622.	14.6	174
46	Toxic Reactive Oxygen Species Enhanced Synergistic Combination Therapy by Self-Assembled Metal-Phenolic Network Nanoparticles. Advanced Materials, 2018, 30, 1704877.	21.0	311
47	A Single Composition Architecture-Based Nanoprobe for Ratiometric Photoacoustic Imaging of Glutathione (GSH) in Living Mice. Small, 2018, 14, e1703400.	10.0	89
48	Hypochlorous Acid Promoted Platinum Drug Chemotherapy by Myeloperoxidase-Encapsulated Therapeutic Metal Phenolic Nanoparticles. ACS Nano, 2018, 12, 455-463.	14.6	134
49	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.	10.0	1
50	Acidity/Reducibility Dual-Responsive Hollow Mesoporous Organosilica Nanoplatfoms for Tumor-Specific Self-Assembly and Synergistic Therapy. ACS Nano, 2018, 12, 12269-12283.	14.6	86
51	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.	8.0	34
52	Fenton-Reaction-Acceleratable Magnetic Nanoparticles for Ferroptosis Therapy of Orthotopic Brain Tumors. ACS Nano, 2018, 12, 11355-11365.	14.6	449
53	Near-Infrared Semiconducting Polymer Brush and pH/GSH-Responsive Polyoxometalate Cluster Hybrid Platform for Enhanced Tumor-Specific Phototheranostics. Angewandte Chemie, 2018, 130, 14297-14301.	2.0	29
54	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.	13.8	138

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55	Activatable Semiconducting Theranostics: Simultaneous Generation and Ratiometric Photoacoustic Imaging of Reactive Oxygen Species In Vivo. <i>Advanced Materials</i> , 2018, 30, e1707509.	21.0	165
56	Glutathione-Responsive Self-Assembled Magnetic Gold Nanowreath for Enhanced Tumor Imaging and Imaging-Guided Photothermal Therapy. <i>ACS Nano</i> , 2018, 12, 8129-8137.	14.6	131
57	Glucose-Responsive Sequential Generation of Hydrogen Peroxide and Nitric Oxide for Synergistic Cancer Starving-Like/Gas Therapy (<i>Angew. Chem.</i> 5/2017). <i>Angewandte Chemie</i> , 2017, 129, 1446-1446.	2.0	2
58	Organic Semiconducting Nanoparticles as Efficient Photoacoustic Agents for Lightening Early Thrombus and Monitoring Thrombolysis in Living Mice. <i>ACS Nano</i> , 2017, 11, 3298-3310.	14.6	94
59	Activatable Singlet Oxygen Generation from Lipid Hydroperoxide Nanoparticles for Cancer Therapy. <i>Angewandte Chemie</i> , 2017, 129, 6592-6596.	2.0	63
60	Activatable Singlet Oxygen Generation from Lipid Hydroperoxide Nanoparticles for Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6492-6496.	13.8	328
61	Artificial local magnetic field inhomogeneity enhances T2 relaxivity. <i>Nature Communications</i> , 2017, 8, 15468.	12.8	114
62	Enhanced Afterglow Performance of Persistent Luminescence Implants for Efficient Repeatable Photodynamic Therapy. <i>ACS Nano</i> , 2017, 11, 5864-5872.	14.6	136
63	Double-Layered Plasmonic-Magnetic Vesicles by Self-Assembly of Janus Amphiphilic Gold-Iron(II,III) Oxide Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8110-8114.	13.8	107
64	Double-Layered Plasmonic-Magnetic Vesicles by Self-Assembly of Janus Amphiphilic Gold-Iron(II,III) Oxide Nanoparticles. <i>Angewandte Chemie</i> , 2017, 129, 8222-8226.	2.0	25
65	Rational Design of Branched Nanoporous Gold Nanoshells with Enhanced Physico-Optical Properties for Optical Imaging and Cancer Therapy. <i>ACS Nano</i> , 2017, 11, 6102-6113.	14.6	133
66	Impact of Semiconducting Perylene Diimide Nanoparticle Size on Lymph Node Mapping and Cancer Imaging. <i>ACS Nano</i> , 2017, 11, 4247-4255.	14.6	157
67	Yolk-Shell Nanostructure: An Ideal Architecture to Achieve Harmonious Integration of Magnetic-Plasmonic Hybrid Theranostic Platform. <i>Advanced Materials</i> , 2017, 29, 1606681.	21.0	106
68	Glucose-Responsive Sequential Generation of Hydrogen Peroxide and Nitric Oxide for Synergistic Cancer Starving-Like/Gas Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1229-1233.	13.8	505
69	Glucose-Responsive Sequential Generation of Hydrogen Peroxide and Nitric Oxide for Synergistic Cancer Starving-Like/Gas Therapy. <i>Angewandte Chemie</i> , 2017, 129, 1249-1253.	2.0	70
70	Perylene Diimide-Grafted Polymeric Nanoparticles Chelated with Gd ³⁺ for Photoacoustic/ ¹ T ₁ -Weighted Magnetic Resonance Imaging-Guided Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30458-30469.	8.0	48
71	Transformative Nanomedicine of an Amphiphilic Camptothecin Prodrug for Long Circulation and High Tumor Uptake in Cancer Therapy. <i>ACS Nano</i> , 2017, 11, 8838-8848.	14.6	144
72	Self-Assembly of Semiconducting-Plasmonic Gold Nanoparticles with Enhanced Optical Property for Photoacoustic Imaging and Photothermal Therapy. <i>Theranostics</i> , 2017, 7, 2177-2185.	10.0	79

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73	A water-soluble conjugated polymer with azobenzol side chains based on "turn-on" effect for hypoxic cell imaging. <i>Polymer Chemistry</i> , 2016, 7, 6890-6894.	3.9	10
74	Morphology-Tunable Fluorescent Nanoparticles: Synthesis, Photophysical Properties and Two-Photon Cell Imaging. <i>Chinese Journal of Chemistry</i> , 2015, 33, 888-896.	4.9	2
75	A Water-Soluble Conjugated Polymer for Thiol Detection Based on "Turn-off" Effect. <i>Chinese Journal of Chemistry</i> , 2015, 33, 881-887.	4.9	4
76	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. <i>Macromolecules</i> , 2015, 48, 1017-1025.	4.8	37
77	Photoacoustic Imaging: Perylene-Diimide-Based Nanoparticles as Highly Efficient Photoacoustic Agents for Deep Brain Tumor Imaging in Living Mice (<i>Adv. Mater.</i> 5/2015). <i>Advanced Materials</i> , 2015, 27, 774-774.	21.0	4
78	Fluorescent oligo(p-phenyleneethynylene) contained amphiphiles-encapsulated magnetic nanoparticles for targeted magnetic resonance and two-photon optical imaging in vitro and in vivo. <i>Nanoscale</i> , 2015, 7, 8907-8919.	5.6	19
79	Perylene-Diimide-Based Nanoparticles as Highly Efficient Photoacoustic Agents for Deep Brain Tumor Imaging in Living Mice. <i>Advanced Materials</i> , 2015, 27, 843-847.	21.0	222
80	Homogeneous near-infrared emissive polymeric nanoparticles based on amphiphilic diblock copolymers with perylene diimide and PEG pendants: self-assembly behavior and cellular imaging application. <i>Polymer Chemistry</i> , 2014, 5, 1372-1380.	3.9	43
81	Monodispersed grafted conjugated polyelectrolyte-stabilized magnetic nanoparticles as multifunctional platform for cellular imaging and drug delivery. <i>Journal of Materials Chemistry B</i> , 2014, 2, 376-386.	5.8	28