

Zhen Yang

List of Publications by Year in descending order

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81
papers

8,712
citations

38742

50
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54911

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times ranked

8557
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous Fenton-like Ion Delivery and Glutathione Depletion by MnO ₂ -Based Nanoagent to Enhance Chemodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4902-4906.	13.8	1,068
2	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
3	Fenton-Reaction-Acceleratable Magnetic Nanoparticles for Ferroptosis Therapy of Orthotopic Brain Tumors. <i>ACS Nano</i> , 2018, 12, 11355-11365.	14.6	449
4	Activatable Singlet Oxygen Generation from Lipid Hydroperoxide Nanoparticles for Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6492-6496.	13.8	328
5	Toxic Reactive Oxygen Species Enhanced Synergistic Combination Therapy by Self-Assembled Metal-Phenolic Network Nanoparticles. <i>Advanced Materials</i> , 2018, 30, 1704877.	21.0	311
6	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
7	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
8	Simultaneous Fenton-like Ion Delivery and Glutathione Depletion by MnO ₂ -Based Nanoagent to Enhance Chemodynamic Therapy. <i>Angewandte Chemie</i> , 2018, 130, 4996-5000.	2.0	195
9	Polyrotaxane-based supramolecular theranostics. <i>Nature Communications</i> , 2018, 9, 766.	12.8	191
10	Organic Semiconducting Photoacoustic Nanodroplets for Laser-Activatable Ultrasound Imaging and Combinational Cancer Therapy. <i>ACS Nano</i> , 2018, 12, 2610-2622.	14.6	174
11	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
12	<i>In Situ</i> Dendritic Cell Vaccine for Effective Cancer Immunotherapy. <i>ACS Nano</i> , 2019, 13, 3083-3094.	14.6	164
13	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
14	Activating Macrophage-Mediated Cancer Immunotherapy by Genetically Edited Nanoparticles. <i>Advanced Materials</i> , 2020, 32, e2004853.	21.0	146
15	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
16	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
17	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
18	Near-Infrared Semiconducting Polymer Brush and pH/GSH-Responsive Polyoxometalate Cluster Hybrid Platform for Enhanced Tumor-Specific Phototheranostics. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14101-14105.	13.8	138

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19	Semiconducting Perylene Diimide Nanostructure: Multifunctional Phototheranostic Nanoplatfrom. <i>Accounts of Chemical Research</i> , 2019, 52, 1245-1254.	15.6	138
20	Enhanced Afterglow Performance of Persistent Luminescence Implants for Efficient Repeatable Photodynamic Therapy. <i>ACS Nano</i> , 2017, 11, 5864-5872.	14.6	136
21	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
22	Hypochlorous Acid Promoted Platinum Drug Chemotherapy by Myeloperoxidase-Encapsulated Therapeutic Metal Phenolic Nanoparticles. <i>ACS Nano</i> , 2018, 12, 455-463.	14.6	134
23	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
24	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
25	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
26	Artificial local magnetic field inhomogeneity enhances T2 relaxivity. <i>Nature Communications</i> , 2017, 8, 15468.	12.8	114
27	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
28	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
29	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
30	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
31	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
32	Stimuli-Responsive Nanotheranostics for Real-Time Monitoring Drug Release by Photoacoustic Imaging. <i>Theranostics</i> , 2019, 9, 526-536.	10.0	98
33	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
34	Organic Semiconducting Nanoparticles as Efficient Photoacoustic Agents for Lightning Early Thrombus and Monitoring Thrombolysis in Living Mice. <i>ACS Nano</i> , 2017, 11, 3298-3310.	14.6	94
35	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
36	A Single Composition Architecture-Based Nanoprobe for Ratiometric Photoacoustic Imaging of Glutathione (GSH) in Living Mice. <i>Small</i> , 2018, 14, e1703400.	10.0	89

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37	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
38	In situ polymerization on nanoscale metal-organic frameworks for enhanced physiological stability and stimulus-responsive intracellular drug delivery. Biomaterials, 2019, 218, 119365.	11.4	80
39	Self-Assembly of Semiconducting-Plasmonic Gold Nanoparticles with Enhanced Optical Property for Photoacoustic Imaging and Photothermal Therapy. Theranostics, 2017, 7, 2177-2185.	10.0	79
40	A hybrid semiconducting organosilica-based O ₂ nanoeconomizer for on-demand synergistic photothermally-boosted radiotherapy. Nature Communications, 2021, 12, 523.	12.8	77
41	Singlet Oxygen "Afterglow" Therapy with NIR-II Fluorescent Molecules. Advanced Materials, 2021, 33, e2103627.	21.0	76
42	Tumour microenvironment-responsive semiconducting polymer-based self-assembling nanotheranostics. Nanoscale Horizons, 2019, 4, 426-433.	8.0	75
43	Recent Advances in Stimuli-Responsive Platforms for Cancer Immunotherapy. Accounts of Chemical Research, 2020, 53, 2044-2054.	15.6	72
44	Glucose-Responsive Sequential Generation of Hydrogen Peroxide and Nitric Oxide for Synergistic Cancer Starving-Like/Gas Therapy. Angewandte Chemie, 2017, 129, 1249-1253.	2.0	70
45	Organosilica-Based Hollow Mesoporous Bilirubin Nanoparticles for Antioxidation-Activated Self-Protection and Tumor-Specific Deoxygenation-Driven Synergistic Therapy. ACS Nano, 2019, 13, 8903-8916.	14.6	70
46	Oxygen-Evolving Manganese Ferrite Nanovesicles for Hypoxia-Responsive Drug Delivery and Enhanced Cancer Chemoimmunotherapy. Advanced Functional Materials, 2021, 31, 2008078.	14.9	65
47	Activatable Singlet Oxygen Generation from Lipid Hydroperoxide Nanoparticles for Cancer Therapy. Angewandte Chemie, 2017, 129, 6592-6596.	2.0	63
48	Self-assembled green tea polyphenol-based coordination nanomaterials to improve chemotherapy efficacy by inhibition of carbonyl reductase 1. Biomaterials, 2019, 210, 62-69.	11.4	62
49	Small-sized gadolinium oxide based nanoparticles for high-efficiency theranostics of orthotopic glioblastoma. Biomaterials, 2020, 235, 119783.	11.4	61
50	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
51	Core-shell metal-organic frameworks with fluorescence switch to trigger an enhanced photodynamic therapy. Theranostics, 2019, 9, 2791-2799.	10.0	53
52	Controllable synthesis of versatile mesoporous organosilica nanoparticles as precision cancer theranostics. Biomaterials, 2020, 256, 120191.	11.4	49
53	Perylene Diimide-Grafted Polymeric Nanoparticles Chelated with Gd ³⁺ for Photoacoustic/ T ₁ -Weighted Magnetic Resonance Imaging-Guided Photothermal Therapy. ACS Applied Materials & Interfaces, 2017, 9, 30458-30469.	8.0	48
54	Tumor Microenvironment-Activated Ultrasensitive Nanoprobes for Specific Detection of Intratumoral Glutathione by Ratiometric Photoacoustic Imaging. ACS Applied Materials & Interfaces, 2019, 11, 27558-27567.	8.0	46

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55	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
56	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
57	Phototherapy meets immunotherapy: a win-win strategy to fight against cancer. <i>Nanophotonics</i> , 2021, 10, 3229-3245.	6.0	43
58	Chemiluminescence-initiated and <i>in situ</i> -enhanced photoisomerization for tissue-depth-independent photo-controlled drug release. <i>Chemical Science</i> , 2019, 10, 1401-1409.	7.4	41
59	Exceedingly Small Gadolinium Oxide Nanoparticles with Remarkable Relaxivities for Magnetic Resonance Imaging of Tumors. <i>Small</i> , 2019, 15, e1903422.	10.0	40
60	Rational design of semiconducting polymer brushes as cancer theranostics. <i>Materials Horizons</i> , 2020, 7, 1474-1494.	12.2	40
61	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
62	Lysosome-Assisted Mitochondrial Targeting Nanoprobe Based on Dye-Modified Upconversion Nanophosphors for Ratiometric Imaging of Mitochondrial Hydrogen Sulfide. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39544-39556.	8.0	34
63	Ratiometric Photoacoustic Nanoprobe for Bioimaging of Cu ²⁺ . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1917-1923.	8.0	34
64	Near-Infrared Semiconducting Polymer Brush and pH/GSH-Responsive Polyoxometalate Cluster Hybrid Platform for Enhanced Tumor-Specific Phototheranostics. <i>Angewandte Chemie</i> , 2018, 130, 14297-14301.	2.0	29
65	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
66	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
67	Rational Design of All-Organic Nanoplatfom for Highly Efficient MR/NIR-Imaging-Guided Cancer Phototheranostics. <i>Small</i> , 2021, 17, e2007566.	10.0	27
68	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
69	A Logic-Gated Modular Nanovesicle Enables Programmable Drug Release for On-Demand Chemotherapy. <i>Theranostics</i> , 2019, 9, 1358-1368.	10.0	21
70	Fluorescent oligo(p-phenyleneethynylene) contained amphiphiles-encapsulated magnetic nanoparticles for targeted magnetic resonance and two-photon optical imaging <i>in vitro</i> and <i>in vivo</i> . <i>Nanoscale</i> , 2015, 7, 8907-8919.	5.6	19
71	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
72	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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73	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
74	Endogenous dual stimuli-activated NO generation in the conventional outflow pathway for precision glaucoma therapy. <i>Biomaterials</i> , 2021, 277, 121074.	11.4	14
75	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
76	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
77	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
78	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
79	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
80	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
81	Photoacoustic Imaging: A Single Composition Architecture-Based Nanoprobe for Ratiometric Photoacoustic Imaging of Glutathione (GSH) in Living Mice (<i>Small</i> 11/2018). <i>Small</i> , 2018, 14, 1870046.	10.0	1