

Zijian Zhou

List of Publications by Year in descending order

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92
papers

12,511
citations

26630

56
h-index

42399

92
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93
all docs

93
docs citations

93
times ranked

12361
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive oxygen species generating systems meeting challenges of photodynamic cancer therapy. <i>Chemical Society Reviews</i> , 2016, 45, 6597-6626.	38.1	1,483
2	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
3	Synthesis of Copper Peroxide Nanodots for H ₂ O ₂ Self-Supplying Chemodynamic Therapy. <i>Journal of the American Chemical Society</i> , 2019, 141, 9937-9945.	13.7	759
4	Emerging Strategies of Cancer Therapy Based on Ferroptosis. <i>Advanced Materials</i> , 2018, 30, e1704007.	21.0	478
5	Fenton-Reaction-Acceleratable Magnetic Nanoparticles for Ferroptosis Therapy of Orthotopic Brain Tumors. <i>ACS Nano</i> , 2018, 12, 11355-11365.	14.6	449
6	Octapod iron oxide nanoparticles as high-performance T2 contrast agents for magnetic resonance imaging. <i>Nature Communications</i> , 2013, 4, 2266.	12.8	399
7	Activatable Singlet Oxygen Generation from Lipid Hydroperoxide Nanoparticles for Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6492-6496.	13.8	328
8	Structure-Relaxivity Relationships of Magnetic Nanoparticles for Magnetic Resonance Imaging. <i>Advanced Materials</i> , 2019, 31, e1804567.	21.0	279
9	A Synergistically Enhanced T ₁ -T ₂ Dual-Modal Contrast Agent. <i>Advanced Materials</i> , 2012, 24, 6223-6228.	21.0	269
10	Multifunctional Theranostic Nanoparticles Based on Exceedingly Small Magnetic Iron Oxide Nanoparticles for T ₁ -Weighted Magnetic Resonance Imaging and Chemotherapy. <i>ACS Nano</i> , 2017, 11, 10992-11004.	14.6	239
11	Endoplasmic Reticulum Targeting to Amplify Immunogenic Cell Death for Cancer Immunotherapy. <i>Nano Letters</i> , 2020, 20, 1928-1933.	9.1	235
12	Engineered Iron-Oxide-Based Nanoparticles as Enhanced T ₁ Contrast Agents for Efficient Tumor Imaging. <i>ACS Nano</i> , 2013, 7, 3287-3296.	14.6	226
13	Tumor-Specific Drug Release and Reactive Oxygen Species Generation for Cancer Chemo/Chemodynamic Combination Therapy. <i>Advanced Science</i> , 2019, 6, 1801986.	11.2	221
14	Antitumor Activity of a Unique Polymer That Incorporates a Fluorescent Self-Assembled Metallacycle. <i>Journal of the American Chemical Society</i> , 2017, 139, 15940-15949.	13.7	203
15	Hybrid cellular membrane nanovesicles amplify macrophage immune responses against cancer recurrence and metastasis. <i>Nature Communications</i> , 2020, 11, 4909.	12.8	199
16	A discrete organoplatinum(II) metallacycle as a multimodality theranostic platform for cancer photochemotherapy. <i>Nature Communications</i> , 2018, 9, 4335.	12.8	197
17	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
18	Core-Satellite Polydopamine-Gadolinium-Metallofullerene Nanotheranostics for Multimodal Imaging Guided Combination Cancer Therapy. <i>Advanced Materials</i> , 2017, 29, 1701013.	21.0	185

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19	Endogenous Labile Iron Pool-Mediated Free Radical Generation for Cancer Chemodynamic Therapy. <i>Journal of the American Chemical Society</i> , 2020, 142, 15320-15330.	13.7	170
20	<i>In Situ</i> Dendritic Cell Vaccine for Effective Cancer Immunotherapy. <i>ACS Nano</i> , 2019, 13, 3083-3094.	14.6	164
21	Interplay between Longitudinal and Transverse Contrasts in Fe ₃ O ₄ Nanoplates with (111) Exposed Surfaces. <i>ACS Nano</i> , 2014, 8, 7976-7985.	14.6	157
22	A Catalase-Like Metal-Organic Framework Nanohybrid for O ₂ -Evolving Synergistic Chemoradiotherapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8752-8756.	13.8	154
23	Anisotropic Shaped Iron Oxide Nanostructures: Controlled Synthesis and Proton Relaxation Shortening Effects. <i>Chemistry of Materials</i> , 2015, 27, 3505-3515.	6.7	153
24	Anisotropic nanomaterials for shape-dependent physicochemical and biomedical applications. <i>Chemical Society Reviews</i> , 2019, 48, 5140-5176.	38.1	150
25	Microneedle-array patches loaded with dual mineralized protein/peptide particles for type 2 diabetes therapy. <i>Nature Communications</i> , 2017, 8, 1777.	12.8	146
26	Deep Photoacoustic/Luminescence/Magnetic Resonance Multimodal Imaging in Living Subjects Using High-Efficiency Upconversion Nanocomposites. <i>Advanced Materials</i> , 2016, 28, 6411-6419.	21.0	142
27	Cooperative Assembly of Magneto-Nanovesicles with Tunable Wall Thickness and Permeability for MRI-Guided Drug Delivery. <i>Journal of the American Chemical Society</i> , 2018, 140, 4666-4677.	13.7	138
28	Hypochlorous Acid Promoted Platinum Drug Chemotherapy by Myeloperoxidase-Encapsulated Therapeutic Metal Phenolic Nanoparticles. <i>ACS Nano</i> , 2018, 12, 455-463.	14.6	134
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	Targeted scavenging of extracellular ROS relieves suppressive immunogenic cell death. <i>Nature Communications</i> , 2020, 11, 4951.	12.8	132
31	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
32	Nanoscintillator-Mediated X-Ray Induced Photodynamic Therapy for Deep-Seated Tumors: From Concept to Biomedical Applications. <i>Theranostics</i> , 2020, 10, 1296-1318.	10.0	127
33	Surface and Interfacial Engineering of Iron Oxide Nanoplates for Highly Efficient Magnetic Resonance Angiography. <i>ACS Nano</i> , 2015, 9, 3012-3022.	14.6	124
34	Artificial local magnetic field inhomogeneity enhances T2 relaxivity. <i>Nature Communications</i> , 2017, 8, 15468.	12.8	114
35	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
36	<i>T</i> ₁ - <i>T</i> ₂ Dual-Modal Magnetic Resonance Imaging: From Molecular Basis to Contrast Agents. <i>ACS Nano</i> , 2017, 11, 5227-5232.	14.6	108

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37	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
38	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
39	Magneto-Plasmonic Janus Vesicles for Magnetic Field-Enhanced Photoacoustic and Magnetic Resonance Imaging of Tumors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15297-15300.	13.8	102
40	Dotted Core-shell Nanoparticles for T ₁ -Weighted MRI of Tumors. <i>Advanced Materials</i> , 2018, 30, e1803163.	21.0	96
41	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
42	Multifunctional Ag@Fe ₂ O ₃ yolk-shell nanoparticles for simultaneous capture, kill, and removal of pathogen. <i>Journal of Materials Chemistry</i> , 2011, 21, 16344.	6.7	87
43	Dancing with reactive oxygen species generation and elimination in nanotheranostics for disease treatment. <i>Advanced Drug Delivery Reviews</i> , 2020, 158, 73-90.	13.7	83
44	Highly magnetic iron carbide nanoparticles as effective T ₂ -contrast agents. <i>Nanoscale</i> , 2014, 6, 726-730.	5.6	81
45	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
46	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
47	Coordinating the Mechanisms of Action of Ferroptosis and the Photothermal Effect for Cancer Theranostics. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	74
48	Artificial Molecular Machines in Nanotheranostics. <i>ACS Nano</i> , 2018, 12, 7-12.	14.6	73
49	Europium-engineered iron oxide nanocubes with high T ₁ and T ₂ -contrast abilities for MRI in living subjects. <i>Nanoscale</i> , 2015, 7, 6843-6850.	5.6	68
50	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
51	Activatable Singlet Oxygen Generation from Lipid Hydroperoxide Nanoparticles for Cancer Therapy. <i>Angewandte Chemie</i> , 2017, 129, 6592-6596.	2.0	63
52	Porphyrim Nanocage-Embedded Single-Molecular Nanoparticles for Cancer Nanotheranostics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8799-8803.	13.8	62
53	Early stratification of radiotherapy response by activatable inflammation magnetic resonance imaging. <i>Nature Communications</i> , 2020, 11, 3032.	12.8	62
54	Small-sized gadolinium oxide based nanoparticles for high-efficiency theranostics of orthotopic glioblastoma. <i>Biomaterials</i> , 2020, 235, 119783.	11.4	61

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55	A multiple gadolinium complex decorated fullerene as a highly sensitive T ₁ contrast agent. <i>Chemical Communications</i> , 2015, 51, 4390-4393.	4.1	59
56	A supramolecular hybrid material constructed from graphene oxide and a pillar[6]arene-based host-guest complex as an ultrasound and photoacoustic signal nanoamplifier. <i>Materials Horizons</i> , 2018, 5, 429-435.	12.2	59
57	Synchronous Chemoradiation Nanovesicles by X-Ray Triggered Cascade of Drug Release. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8463-8467.	13.8	59
58	Geometrically confined ultrasmall gadolinium oxide nanoparticles boost the T ₁ contrast ability. <i>Nanoscale</i> , 2016, 8, 3768-3774.	5.6	57
59	Porous gold nanocluster-decorated manganese monoxide nanocomposites for microenvironment-activatable MR/photoacoustic/CT tumor imaging. <i>Nanoscale</i> , 2018, 10, 3631-3638.	5.6	54
60	Core-shell metal-organic frameworks with fluorescence switch to trigger an enhanced photodynamic therapy. <i>Theranostics</i> , 2019, 9, 2791-2799.	10.0	53
61	Size-transformable antigen-presenting cell-mimicking nanovesicles potentiate effective cancer immunotherapy. <i>Science Advances</i> , 2020, 6, .	10.3	53
62	Targeting Neutrophils for Enhanced Cancer Theranostics. <i>Advanced Materials</i> , 2020, 32, e2002739.	21.0	52
63	X-ray-Controlled Bilayer Permeability of Bionic Nanocapsules Stabilized by Nucleobase Pairing Interactions for Pulsatile Drug Delivery. <i>Advanced Materials</i> , 2019, 31, e1903443.	21.0	51
64	Gadolinium embedded iron oxide nanoclusters as T ₁ -T ₂ dual-modal MRI-visible vectors for safe and efficient siRNA delivery. <i>Nanoscale</i> , 2013, 5, 8098.	5.6	47
65	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
66	Reactive Oxygen Species Activatable Heterodimeric Prodrug as Tumor-Selective Nanotheranostics. <i>ACS Nano</i> , 2020, 14, 16875-16886.	14.6	45
67	Yolk-shell nanovesicles endow glutathione-responsive concurrent drug release and T ₁ MRI activation for cancer theranostics. <i>Biomaterials</i> , 2020, 244, 119979.	11.4	40
68	Tale of Two Magnets: An Advanced Magnetic Targeting System. <i>ACS Nano</i> , 2020, 14, 7-11.	14.6	37
69	Biodegradable hollow manganese/cobalt oxide nanoparticles for tumor theranostics. <i>Nanoscale</i> , 2019, 11, 23021-23026.	5.6	35
70	Gadolinium Metallofullerene-Based Activatable Contrast Agent for Tumor Signal Amplification and Monitoring of Drug Release. <i>Small</i> , 2019, 15, 1900691.	10.0	34
71	A Catalase-Like Metal-Organic Framework Nanohybrid for O ₂ -Evolving Synergistic Chemoradiotherapy. <i>Angewandte Chemie</i> , 2019, 131, 8844-8848.	2.0	33
72	Gadolinium Metallofullerene-Polypyrrole Nanoparticles for Activatable Dual-Modal Imaging-Guided Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28382-28389.	8.0	32

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73	An Albumin-Binding T_1 - T_2 Dual-Modal MRI Contrast Agents for Improved Sensitivity and Accuracy in Tumor Imaging. <i>Bioconjugate Chemistry</i> , 2019, 30, 1821-1829.	3.6	32
74	Water bridge coordination on the metal-rich facets of Gd_2O_3 nanoplates confers high T_1 -relaxivity. <i>Nanoscale</i> , 2016, 8, 17887-17894.	5.6	31
75	Radiolabeled Angiogenesis-Targeting Croconaine Nanoparticles for Trimodality Imaging Guided Photothermal Therapy of Glioma. <i>ACS Applied Nano Materials</i> , 2018, 1, 1741-1749.	5.0	27
76	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
77	Exquisite Vesicular Nanomedicine by Paclitaxel Mediated Co-Assembly with Camptothecin Prodrug. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21033-21039.	13.8	22
78	A Logic-Gated Modular Nanovesicle Enables Programmable Drug Release for On-Demand Chemotherapy. <i>Theranostics</i> , 2019, 9, 1358-1368.	10.0	21
79	A Protein-Corona-Free T_1 - T_2 Dual-Modal Contrast Agent for Accurate Imaging of Lymphatic Tumor Metastasis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28286-28293.	8.0	18
80	Gadolinium hybrid iron oxide nanocomposites for dual T_1 - and T_2 -weighted MR imaging of cell labeling. <i>Biomaterials Science</i> , 2017, 5, 50-56.	5.4	18
81	Enhancing Chemotherapy of p53-Mutated Cancer through Ubiquitination-Dependent Proteasomal Degradation of Mutant p53 Proteins by Engineered ZnFe ₄ Nanoparticles. <i>Advanced Functional Materials</i> , 2020, 30, 2001994.	14.9	18
82	Ultrasmall Quantum Dots with Broad-Spectrum Metal Doping Ability for Trimodal Molecular Imaging. <i>Advanced Functional Materials</i> , 2019, 29, 1901671.	14.9	16
83	Improving the sensitivity of T_1 contrast-enhanced MRI and sensitive diagnosing tumors with ultralow doses of MnO octahedrons. <i>Theranostics</i> , 2021, 11, 6966-6982.	10.0	16
84	Coordinating the Mechanisms of Action of Ferroptosis and the Photothermal Effect for Cancer Theranostics. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	15
85	Imaging Beyond Seeing: Early Prognosis of Cancer Treatment. <i>Small Methods</i> , 2021, 5, e2001025.	8.6	14
86	NMR-based metabonomic analysis of MnO-embedded iron oxide nanoparticles as potential dual-modal contrast agents. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	13
87	Magneto-Plasmonic Janus Vesicles for Magnetic Field-Enhanced Photoacoustic and Magnetic Resonance Imaging of Tumors. <i>Angewandte Chemie</i> , 2016, 128, 15523-15526.	2.0	12
88	Porphyrim Nanocage-Embedded Single-Molecular Nanoparticles for Cancer Nanotheranostics. <i>Angewandte Chemie</i> , 2019, 131, 8891-8895.	2.0	7
89	Cancer Therapy: Emerging Strategies of Cancer Therapy Based on Ferroptosis (<i>Adv. Mater.</i> 12/2018). <i>Advanced Materials</i> , 2018, 30, 1870084.	21.0	6
90	Synchronous Chemoradiation Nanovesicles by X-Ray Triggered Cascade of Drug Release. <i>Angewandte Chemie</i> , 2018, 130, 8599-8603.	2.0	4

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91	Exquisite Vesicular Nanomedicine by Paclitaxel Mediated Co-assembly with Camptothecin Prodrug. <i>Angewandte Chemie</i> , 2021, 133, 21201-21207.	2.0	2
92	Magnetic Nanomaterials for Diagnostics. , 0, , 365-392.		1