

Zheyu Shen

List of Publications by Year in descending order

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92
papers

8,906
citations

38742

50
h-index

42399

92
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95
all docs

95
docs citations

95
times ranked

11143
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	Emerging Strategies of Cancer Therapy Based on Ferroptosis. <i>Advanced Materials</i> , 2018, 30, e1704007.	21.0	478
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	Preparation of Hierarchical Hollow CaCO ₃ Particles and the Application as Anticancer Drug Carrier. <i>Journal of the American Chemical Society</i> , 2008, 130, 15808-15810.	13.7	431
5	Emerging blood-brain-barrier-crossing nanotechnology for brain cancer theranostics. <i>Chemical Society Reviews</i> , 2019, 48, 2967-3014.	38.1	389
6	Current detection technologies for circulating tumor cells. <i>Chemical Society Reviews</i> , 2017, 46, 2038-2056.	38.1	341
7	Nanomaterial-based blood-brain-barrier (BBB) crossing strategies. <i>Biomaterials</i> , 2019, 224, 119491.	11.4	306
8	Iron Oxide Nanoparticle Based Contrast Agents for Magnetic Resonance Imaging. <i>Molecular Pharmaceutics</i> , 2017, 14, 1352-1364.	4.6	250
9	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
10	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
11	In Situ Dendritic Cell Vaccine for Effective Cancer Immunotherapy. <i>ACS Nano</i> , 2019, 13, 3083-3094.	14.6	164
12	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
13	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
14	Enhanced Afterglow Performance of Persistent Luminescence Implants for Efficient Repeatable Photodynamic Therapy. <i>ACS Nano</i> , 2017, 11, 5864-5872.	14.6	136
15	Improved SERS Nanoparticles for Direct Detection of Circulating Tumor Cells in the Blood. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9965-9971.	8.0	135
16	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
17	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
18	Breaking the Depth Dependence by Nanotechnology-Enhanced X-Ray-Excited Deep Cancer Theranostics. <i>Advanced Materials</i> , 2019, 31, e1806381.	21.0	125

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19	Improved SERS-Active Nanoparticles with Various Shapes for CTC Detection without Enrichment Process with Supersensitivity and High Specificity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19928-19938.	8.0	113
20	Improved drug targeting of cancer cells by utilizing actively targetable folic acid-conjugated albumin nanospheres. <i>Pharmacological Research</i> , 2011, 63, 51-58.	7.1	112
21	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
22	Dual-Modal Magnetic Resonance Imaging: From Molecular Basis to Contrast Agents. <i>ACS Nano</i> , 2017, 11, 5227-5232.	14.6	108
23	Selective colorimetric detection of Cr(III) and Cr(VI) using gallic acid capped gold nanoparticles. <i>Dalton Transactions</i> , 2016, 45, 8347-8354.	3.3	106
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	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
26	High-Performance Colorimetric Detection of Hg ²⁺ Based on Triangular Silver Nanoprisms. <i>ACS Sensors</i> , 2016, 1, 521-527.	7.8	98
27	Stimuli-Responsive Nanotheranostics for Real-Time Monitoring Drug Release by Photoacoustic Imaging. <i>Theranostics</i> , 2019, 9, 526-536.	10.0	98
28	Dotted Core-Shell Nanoparticles for T ₁ -Weighted MRI of Tumors. <i>Advanced Materials</i> , 2018, 30, e1803163.	21.0	96
29	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
30	Synthesis and Bioapplications of Ag ₂ S Quantum Dots with Near-Infrared Fluorescence. <i>Advanced Materials</i> , 2021, 33, e2007768.	21.0	87
31	Acidity/Reducibility Dual-Responsive Hollow Mesoporous Organosilica Nanoplatfoms for Tumor-Specific Self-Assembly and Synergistic Therapy. <i>ACS Nano</i> , 2018, 12, 12269-12283.	14.6	86
32	A new simple and reliable Hg ²⁺ detection system based on anti-aggregation of unmodified gold nanoparticles in the presence of O-phenylenediamine. <i>Sensors and Actuators B: Chemical</i> , 2014, 200, 140-146.	7.8	80
33	Red-to-blue-colorimetric detection of cysteine via anti-etching of silver nanoprisms. <i>Nanoscale</i> , 2014, 6, 10631-10637.	5.6	79
34	Thermosensitive polymer-conjugated albumin nanospheres as thermal targeting anti-cancer drug carrier. <i>European Journal of Pharmaceutical Sciences</i> , 2008, 35, 271-282.	4.0	77
35	Exploring a new SPION-based MRI contrast agent with excellent water-dispersibility, high specificity to cancer cells and strong MR imaging efficacy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 44-49.	5.0	76
36	Tumour microenvironment-responsive semiconducting polymer-based self-assembling nanotheranostics. <i>Nanoscale Horizons</i> , 2019, 4, 426-433.	8.0	75

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37	Exploring <i>N</i> -Imidazolyl- <i>O</i> -Carboxymethyl Chitosan for High Performance Gene Delivery. <i>Biomacromolecules</i> , 2012, 13, 146-153.	5.4	74
38	A galactosamine-mediated drug delivery carrier for targeted liver cancer therapy. <i>Pharmacological Research</i> , 2011, 64, 410-419.	7.1	73
39	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
40	Synthesis and phase behavior of aqueous poly(<i>N</i> -isopropylacrylamide-co-acrylamide), poly(<i>N</i> -isopropylacrylamide-co- <i>N,N</i> -dimethylacrylamide) and poly(<i>N</i> -isopropylacrylamide-co-2-hydroxyethyl methacrylate). <i>Colloid and Polymer Science</i> , 2006, 284, 1001-1007.	2.1	69
41	A colorimetric sensor based on citrate-stabilized AuNPs for rapid pesticide residue detection of terbutylazine and dimethoate. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3093-3101.	7.8	65
42	A new rapid colorimetric detection method of Mn ²⁺ based on tripolyphosphate modified silver nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 288-293.	7.8	62
43	Small-sized gadolinium oxide based nanoparticles for high-efficiency theranostics of orthotopic glioblastoma. <i>Biomaterials</i> , 2020, 235, 119783.	11.4	61
44	High-Performance Colorimetric Detection of Thiosulfate by Using Silver Nanoparticles for Smartphone-Based Analysis. <i>ACS Sensors</i> , 2017, 2, 1152-1159.	7.8	60
45	Biocompatible composite nanoparticles with large longitudinal relaxivity for targeted imaging and early diagnosis of cancer. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3419.	5.8	59
46	Synchronous Chemoradiation Nanovesicles by X-Ray Triggered Cascade of Drug Release. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8463-8467.	13.8	59
47	Colorimetric Response of Dithizone Product and Hexadecyl Trimethyl Ammonium Bromide Modified Gold Nanoparticle Dispersion to 10 Types of Heavy Metal Ions: Understanding the Involved Molecules from Experiment to Simulation. <i>Langmuir</i> , 2013, 29, 7591-7599.	3.5	56
48	A novel Trojan-horse targeting strategy to reduce the non-specific uptake of nanocarriers by non-cancerous cells. <i>Biomaterials</i> , 2015, 70, 1-11.	11.4	54
49	Exploring a new rapid colorimetric detection method of Cu ²⁺ with high sensitivity and selectivity. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 906-912.	7.8	53
50	Core-shell metal-organic frameworks with fluorescence switch to trigger an enhanced photodynamic therapy. <i>Theranostics</i> , 2019, 9, 2791-2799.	10.0	53
51	Developing a chitosan supported imidazole Schiff-base for high-efficiency gene delivery. <i>Polymer Chemistry</i> , 2013, 4, 840-850.	3.9	49
52	A colorimetric nitrite detection system with excellent selectivity and high sensitivity based on Ag@Au nanoparticles. <i>Analyst</i> , 2015, 140, 1076-1081.	3.5	49
53	Preparation and characterization of thermo-responsive albumin nanospheres. <i>International Journal of Pharmaceutics</i> , 2008, 346, 133-142.	5.2	47
54	Enhanced doxorubicin transport to multidrug resistant breast cancer cells via TiO ₂ nanocarriers. <i>RSC Advances</i> , 2013, 3, 20855.	3.6	47

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55	A Supersensitive CTC Analysis System Based on Triangular Silver Nanoprisms and SPION with Function of Capture, Enrichment, Detection, and Release. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1073-1082.	5.2	47
56	A new rapid colorimetric detection method of Al ³⁺ with high sensitivity and excellent selectivity based on a new mechanism of aggregation of smaller etched silver nanoparticles. <i>Talanta</i> , 2014, 122, 272-277.	5.5	43
57	Detection of circulating tumor cells based on improved SERS-active magnetic nanoparticles. <i>Analytical Methods</i> , 2019, 11, 2918-2928.	2.7	42
58	Exceedingly Small Gadolinium Oxide Nanoparticles with Remarkable Relaxivities for Magnetic Resonance Imaging of Tumors. <i>Small</i> , 2019, 15, e1903422.	10.0	40
59	Yolk-shell nanovesicles endow glutathione-responsive concurrent drug release and T1 MRI activation for cancer theranostics. <i>Biomaterials</i> , 2020, 244, 119979.	11.4	40
60	Three dimensional plasmonic assemblies of AuNPs with an overall size of sub-200 nm for chemo-photothermal synergistic therapy of breast cancer. <i>Nanoscale</i> , 2016, 8, 18682-18692.	5.6	38
61	Amplifying the signal of localized surface plasmon resonance sensing for the sensitive detection of <i>Escherichia coli</i> O157:H7. <i>Scientific Reports</i> , 2017, 7, 3288.	3.3	37
62	Tale of Two Magnets: An Advanced Magnetic Targeting System. <i>ACS Nano</i> , 2020, 14, 7-11.	14.6	37
63	A Flexible Caterpillar-Like Gold Nanoparticle Assemblies with Ultrasmall Nanogaps for Enhanced Dual-Modal Imaging and Photothermal Therapy. <i>Small</i> , 2018, 14, e1800094.	10.0	35
64	Biodegradable hollow manganese/cobalt oxide nanoparticles for tumor theranostics. <i>Nanoscale</i> , 2019, 11, 23021-23026.	5.6	35
65	Neuropeptide Y ₁ Receptors Mediate Targeted Delivery of Anticancer Drug with Encapsulated Nanoparticles to Breast Cancer Cells with High Selectivity and Its Potential for Breast Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5574-5582.	8.0	34
66	Gadolinium Metallofullerene-Based Activatable Contrast Agent for Tumor Signal Amplification and Monitoring of Drug Release. <i>Small</i> , 2019, 15, 1900691.	10.0	34
67	Exploring thermal reversible hydrogels for stem cell expansion in three-dimensions. <i>Soft Matter</i> , 2012, 8, 7250.	2.7	31
68	Ultra-small gadolinium oxide nanocrystal sensitization of non-small-cell lung cancer cells toward X-ray irradiation by promoting cytosolic autophagy. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 2415-2431.	6.7	31
69	Intelligent Pore Switch of Hollow Mesoporous Organosilica Nanoparticles for High Contrast Magnetic Resonance Imaging and Tumor-Specific Chemotherapy. <i>Nano Letters</i> , 2021, 21, 9551-9559.	9.1	31
70	A novel AgNPs-based colorimetric sensor for rapid detection of Cu ²⁺ or Mn ²⁺ via pH control. <i>RSC Advances</i> , 2015, 5, 20595-20602.	3.6	30
71	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
72	Boron-Containing Lipids and Liposomes: New Conjugates of Cholesterol with Polyhedral Boron Hydrides. <i>Chemistry - A European Journal</i> , 2020, 26, 13832-13841.	3.3	28

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73	A Supersensitive Probe for Rapid Colorimetric Detection of Nickel Ion Based on a Sensing Mechanism of Anti-etching. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6509-6516.	6.7	27
74	Exploring low-positively charged thermosensitive copolymers as gene delivery vectors. <i>Soft Matter</i> , 2012, 8, 1385-1394.	2.7	25
75	A thermally responsive cationic nanogel-based platform for three-dimensional cell culture and recovery. <i>RSC Advances</i> , 2014, 4, 29146.	3.6	25
76	Enhanced conjugation stability and blood circulation time of macromolecular gadolinium-DTPA contrast agent. <i>Materials Science and Engineering C</i> , 2016, 61, 659-664.	7.3	20
77	Ultrasmall Quantum Dots with Broad Spectrum Metal Doping Ability for Trimodal Molecular Imaging. <i>Advanced Functional Materials</i> , 2019, 29, 1901671.	14.9	16
78	Radiosensitizing Effect of Gadolinium Oxide Nanocrystals in NSCLC Cells Under Carbon Ion Irradiation. <i>Nanoscale Research Letters</i> , 2019, 14, 328.	5.7	15
79	Click™ synthesis of cobalt bis(dicarbollide) cholesterol conjugates. <i>Mendeleev Communications</i> , 2019, 29, 628-630.	1.6	15
80	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
81	Ten Gram Scale Facile Synthesis of Organogadolinium Complex Nanoparticles for Tumor Diagnosis. <i>Small</i> , 2020, 16, e1906870.	10.0	14
82	Effects of Linkers on the Development of Liposomal Formulation of Cholesterol Conjugated Cobalt Bis(dicarbollides). <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 1365-1373.	3.3	14
83	Synthesis and Characterization of $\text{Fe}_{10}\text{BO}_3/\text{Fe}_3\text{O}_4/\text{SiO}_2$ and $\text{GdFeO}_3/\text{Fe}_3\text{O}_4/\text{SiO}_2$: Nanocomposites of Biofunctional Materials. <i>ChemistryOpen</i> , 2013, 2, 88-92.	1.9	13
84	Improved double emulsion technology for fabricating autofluorescent microcapsules as novel ultrasonic/fluorescent dual-modality contrast agents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 561-567.	5.0	13
85	PET/CT Imaging of Activated Cancer-Associated Fibroblasts Predict Response to PD-1 Blockade in Gastric Cancer Patients. <i>Frontiers in Oncology</i> , 2021, 11, 802257.	2.8	9
86	A tumor microenvironment dual responsive contrast agent for contrary contrast-magnetic resonance imaging and specific chemotherapy of tumors. <i>Nanoscale Horizons</i> , 2022, 7, 403-413.	8.0	9
87	Cancer Therapy: Emerging Strategies of Cancer Therapy Based on Ferroptosis (Adv. Mater. 12/2018). <i>Advanced Materials</i> , 2018, 30, 1870084.	21.0	6
88	A pH-sensitive polymer based precise tumor targeting strategy with reduced uptake of nanoparticles by non-cancerous cells. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5983-5991.	5.8	6
89	Synchronous Chemoradiation Nanovesicles by X-Ray Triggered Cascade of Drug Release. <i>Angewandte Chemie</i> , 2018, 130, 8599-8603.	2.0	4
90	Magnetic Nanomaterials for Tumor Targeting Theranostics. , 2016, , 55-83.		2

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91	Gd ₂ O ₃ nanocrystal-based autofluorescent composite nanoparticles as T ₁ -weighted contrast agents. <i>Journal of Controlled Release</i> , 2015, 213, e147-e148.	9.9	1
92	Neuropeptide Y ₁ receptors mediate targeted delivery nanoparticles for breast cancer therapy. <i>Neuropeptides</i> , 2016, 55, 7-8.	2.2	0