

Ruirui Qiao

List of Publications by Year in descending order

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81
papers

5,866
citations

76326

40
h-index

74163

75
g-index

83
all docs

83
docs citations

83
times ranked

9283
citing authors

#	ARTICLE	IF	CITATIONS
1	Superparamagnetic iron oxide nanoparticles: from preparations to in vivo MRI applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 6274.	6.7	610
2	Biologically Targeted Magnetic Hyperthermia: Potential and Limitations. <i>Frontiers in Pharmacology</i> , 2018, 9, 831.	3.5	340
3	Magnetic/Upconversion Fluorescent NaGdF ₄ :Yb,Er Nanoparticle-Based Dual-Modal Molecular Probes for Imaging Tiny Tumors <i>in Vivo</i> . <i>ACS Nano</i> , 2013, 7, 7227-7240.	14.6	336
4	Arginine-Rich Manganese Silicate Nanobubbles as a Ferroptosis-Inducing Agent for Tumor-Targeted Theranostics. <i>ACS Nano</i> , 2018, 12, 12380-12392.	14.6	292
5	Receptor-Mediated Delivery of Magnetic Nanoparticles across the Blood-Brain Barrier. <i>ACS Nano</i> , 2012, 6, 3304-3310.	14.6	272
6	Lateral Flow Immunochromatographic Assay for Sensitive Pesticide Detection by Using Fe ₃ O ₄ Nanoparticle Aggregates as Color Reagents. <i>Analytical Chemistry</i> , 2011, 83, 6778-6784.	6.5	216
7	NaGdF ₄ Nanoparticle-Based Molecular Probes for Magnetic Resonance Imaging of Intraperitoneal Tumor Xenografts <i>in Vivo</i> . <i>ACS Nano</i> , 2013, 7, 330-338.	14.6	207
8	Anchoring Group Effects of Surface Ligands on Magnetic Properties of Fe ₃ O ₄ Nanoparticles: Towards High Performance MRI Contrast Agents. <i>Advanced Materials</i> , 2014, 26, 2694-2698.	21.0	194
9	Active targeting theranostic iron oxide nanoparticles for MRI and magnetic resonance-guided focused ultrasound ablation of lung cancer. <i>Biomaterials</i> , 2017, 127, 25-35.	11.4	169
10	Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles. <i>Small</i> , 2018, 14, e1800118.	10.0	117
11	Superdispersible PVP-Coated Fe ₃ O ₄ Nanocrystals Prepared by a "One-Pot" Reaction. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14390-14394.	2.6	115
12	Phase Separation in Liquid Metal Nanoparticles. <i>Matter</i> , 2019, 1, 192-204.	10.0	110
13	Highly Fluorescent CdTe@SiO ₂ Particles Prepared via Reverse Microemulsion Method. <i>Chemistry of Materials</i> , 2010, 22, 420-427.	6.7	107
14	Stimuli-responsive nano-assemblies for remotely controlled drug delivery. <i>Journal of Controlled Release</i> , 2020, 322, 566-592.	9.9	107
15	Simultaneous and sensitive determination of multiplex chemical residues based on multicolor quantum dot probes. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3657-3662.	10.1	99
16	Aqueous synthesis of CdTe nanocrystals: progresses and perspectives. <i>Chemical Communications</i> , 2011, 47, 9293.	4.1	99
17	Polyaniline/Fe ₃ O ₄ Nanoparticle Composite: Synthesis and Reaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5052-5058.	2.6	98
18	Sonication-enabled rapid production of stable liquid metal nanoparticles grafted with poly(1-octadecene- <i>alt</i> -maleic anhydride) in aqueous solutions. <i>Nanoscale</i> , 2018, 10, 19871-19878.	5.6	98

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19	Resorbable polymer electrospun nanofibers: History, shapes and application for tissue engineering. <i>Chinese Chemical Letters</i> , 2020, 31, 617-625.	9.0	94
20	Molecular Imaging of Vulnerable Atherosclerotic Plaques <i>in Vivo</i> with Osteopontin-Specific Upconversion Nanoprobes. <i>ACS Nano</i> , 2017, 11, 1816-1825.	14.6	91
21	Ultrasensitive <i>in Vivo</i> Detection of Primary Gastric Tumor and Lymphatic Metastasis Using Upconversion Nanoparticles. <i>ACS Nano</i> , 2015, 9, 2120-2129.	14.6	90
22	A Novel Type of Dual-Modality Molecular Probe for MR and Nuclear Imaging of Tumor: Preparation, Characterization and <i>in Vivo</i> Application. <i>Molecular Pharmaceutics</i> , 2009, 6, 1074-1082.	4.6	79
23	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019, 4, 1800420.	5.8	78
24	MRI/optical dual-modality imaging of vulnerable atherosclerotic plaque with an osteopontin-targeted probe based on Fe ₃ O ₄ nanoparticles. <i>Biomaterials</i> , 2017, 112, 336-345.	11.4	71
25	Soybean Lecithin-Mediated Nanoporous PLGA Microspheres with Highly Entrapped and Controlled Released BMP-2 as a Stem Cell Platform. <i>Small</i> , 2018, 14, e1800063.	10.0	71
26	Rapid and sensitive detection of microcystin by immunosensor based on nuclear magnetic resonance. <i>Biosensors and Bioelectronics</i> , 2009, 25, 240-243.	10.1	70
27	Aqueous synthesis of PEGylated copper sulfide nanoparticles for photoacoustic imaging of tumors. <i>Nanoscale</i> , 2015, 7, 11075-11081.	5.6	68
28	Gelification: An Effective Measure for Achieving Differently Sized Biocompatible Fe ₃ O ₄ Nanocrystals through a Single Preparation Recipe. <i>Journal of the American Chemical Society</i> , 2011, 133, 19512-19523.	13.7	66
29	Investigations on the Interactions between Plasma Proteins and Magnetic Iron Oxide Nanoparticles with Different Surface Modifications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21270-21276.	3.1	64
30	Recent Advances of Electrospun Nanofibrous Membranes in the Development of Chemosensors for Heavy Metal Detection. <i>Small</i> , 2017, 13, 1604293.	10.0	63
31	Effect of extraction methods on the preparation of electrospun/electrosprayed microstructures of tilapia skin collagen. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 234-240.	2.2	59
32	Biomedical Applications of Liquid Metal Nanoparticles: A Critical Review. <i>Biosensors</i> , 2020, 10, 196.	4.7	59
33	Aqueous Manganese-Doped Core/Shell CdTe/ZnS Quantum Dots with Strong Fluorescence and High Relaxivity. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18752-18761.	3.1	58
34	Effects of Quantum Dots in Polymerase Chain Reaction. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7637-7641.	2.6	57
35	<i>In vivo</i> multimodality imaging of miRNA-16 iron nanoparticle reversing drug resistance to chemotherapy in a mouse gastric cancer model. <i>Nanoscale</i> , 2014, 6, 14343-14353.	5.6	54
36	Polymer-Assisted Magnetic Nanoparticle Assemblies for Biomedical Applications. <i>ACS Applied Bio Materials</i> , 2020, 3, 121-142.	4.6	51

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37	In situ ¹¹¹ In-doping for achieving biocompatible and non-leachable ¹¹¹ In-labeled Fe ₃ O ₄ nanoparticles. <i>Chemical Communications</i> , 2014, 50, 2170.	4.1	50
38	Ultrasensitive immunoassay of 7-aminoclonazepam in human urine based on CdTe nanoparticle bioconjugations by fabricated microfluidic chip. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2051-2056.	10.1	45
39	Polymorphism and stability of nanostructures of three types of collagens from bovine flexor tendon, rat tail, and tilapia skin. <i>Food Hydrocolloids</i> , 2019, 93, 253-260.	10.7	43
40	Sulfoxide-Containing Polymer-Coated Nanoparticles Demonstrate Minimal Protein Fouling and Improved Blood Circulation. <i>Advanced Science</i> , 2020, 7, 2000406.	11.2	43
41	Antifouling Surfaces Enabled by Surface Grafting of Highly Hydrophilic Sulfoxide Polymer Brushes. <i>Biomacromolecules</i> , 2021, 22, 330-339.	5.4	43
42	Quantum dot-antisense oligonucleotide conjugates for multifunctional gene transfection, mRNA regulation, and tracking of biological processes. <i>Biomaterials</i> , 2011, 32, 1923-1931.	11.4	40
43	Dynamic Temperature Control System for the Optimized Production of Liquid Metal Nanoparticles. <i>ACS Applied Nano Materials</i> , 2020, 3, 6905-6914.	5.0	38
44	Recent advances in molecular imaging of atherosclerotic plaques and thrombosis. <i>Nanoscale</i> , 2020, 12, 8040-8064.	5.6	38
45	Detection of early primary colorectal cancer with upconversion luminescent NP-based molecular probes. <i>Nanoscale</i> , 2016, 8, 12579-12587.	5.6	36
46	Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an <i>in vitro</i> blood brain barrier model. <i>Biomaterials Science</i> , 2018, 6, 314-323.	5.4	36
47	Strategies to overcome the barrier: use of nanoparticles as carriers and modulators of barrier properties. <i>Cell and Tissue Research</i> , 2014, 355, 717-726.	2.9	35
48	Engineering Organic/Inorganic Nanohybrids through RAFT Polymerization for Biomedical Applications. <i>Biomacromolecules</i> , 2019, 20, 4243-4257.	5.4	35
49	Liquid Metal Particles and Polymers: A Soft-Soft System with Exciting Properties. <i>Accounts of Materials Research</i> , 2021, 2, 966-978.	11.7	34
50	Bioconjugation and Fluorescence Labeling of Iron Oxide Nanoparticles Grafted with Bromomaleimide-Terminal Polymers. <i>Biomacromolecules</i> , 2018, 19, 4423-4429.	5.4	32
51	Electrospun Nanobelt-Shaped Polymer Membranes for Fast and High-Sensitivity Detection of Metal Ions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5401-5413.	8.0	31
52	Proteins Conjugated with Sulfoxide-Containing Polymers Show Reduced Macrophage Cellular Uptake and Improved Pharmacokinetics. <i>ACS Macro Letters</i> , 2020, 9, 799-805.	4.8	30
53	Engineering macromolecular nanocarriers for local delivery of gaseous signaling molecules. <i>Advanced Drug Delivery Reviews</i> , 2021, 179, 114005.	13.7	30
54	Automated and ultrasensitive detection of methyl-3-quinoxaline-2-carboxylic acid by using gold nanoparticles probes SIA-rt-PCR. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2858-2863.	10.1	29

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55	Synthesis of Star Polymers by RAFT Polymerization as Versatile Nanoparticles for Biomedical Applications. <i>Australian Journal of Chemistry</i> , 2017, 70, 1161.	0.9	27
56	Electrospraying Technique and Its Recent Application Advances for Biological Macromolecule Encapsulation of Food Bioactive Substances. <i>Food Reviews International</i> , 2022, 38, 566-588.	8.4	26
57	Inhibition of Amyloid Aggregation and Toxicity with Janus Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2021, 33, 6484-6500.	6.7	25
58	Engineering Polymers via Understanding the Effect of Anchoring Groups for Highly Stable Liquid Metal Nanoparticles. <i>ACS Applied Nano Materials</i> , 2022, 5, 5959-5971.	5.0	24
59	Zero valent iron core-iron oxide shell nanoparticles as small magnetic particle imaging tracers. <i>Chemical Communications</i> , 2020, 56, 3504-3507.	4.1	22
60	Magnetic tweezers for the mechanical research of DNA at the single molecule level. <i>Analytical Methods</i> , 2017, 9, 5720-5730.	2.7	20
61	Engineering Metal-Organic Frameworks (MOFs) for Controlled Delivery of Physiological Gaseous Transmitters. <i>Nanomaterials</i> , 2020, 10, 1134.	4.1	20
62	A novel clustered SPIO nanoplatform with enhanced magnetic resonance T2 relaxation rate for micro-tumor detection and photothermal synergistic therapy. <i>Nano Research</i> , 2020, 13, 2216-2225.	10.4	20
63	Ultrasmall PEGylated $Mn_xFe_{3-x}O_4$ ($x = 0 \sim 0.34$) nanoparticles: effects of Mn(II) doping on T1- and T2-weighted magnetic resonance imaging. <i>RSC Advances</i> , 2013, 3, 23454.	3.6	19
64	Surface-biofunctionalized multicore/shell CdTe@SiO ₂ composite particles for immunofluorescence assay. <i>Nanotechnology</i> , 2011, 22, 505104.	2.6	18
65	Modular and Integrated Systems for Nanoparticle and Microparticle Synthesis—A Review. <i>Biosensors</i> , 2020, 10, 165.	4.7	17
66	Monodispersed Magnetic Polystyrene Beads with Excellent Colloidal Stability and Strong Magnetic Response. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1805-1810.	3.9	16
67	Multimodal Nanoprobe for Pancreatic Beta Cell Detection and Amyloidosis Mitigation. <i>Chemistry of Materials</i> , 2020, 32, 1080-1088.	6.7	16
68	Photo-Degradable Micelles Capable of Releasing of Carbon Monoxide under Visible Light Irradiation. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000323.	3.9	13
69	Recent Advances in Magnetic Nanoparticle-based Molecular Probes for Hepatocellular Carcinoma Diagnosis and Therapy. <i>Current Pharmaceutical Design</i> , 2018, 24, 2432-2437.	1.9	13
70	Recent Advances in Single Fe-Based Nanoagents for Photothermal-Chemodynamic Cancer Therapy. <i>Biosensors</i> , 2022, 12, 86.	4.7	13
71	Instrumental Analytical Techniques for the Characterization of Crystals in Pharmaceuticals and Foods. <i>Crystal Growth and Design</i> , 2017, 17, 6138-6148.	3.0	11
72	Electrospun Nanofibrous Cellulose Acetate/Curcumin Membranes for Fast Detection of Pb Ions. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 670-674.	0.9	10

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73	Magnetically-stimulated transformations in nanostructure of lipid mesophases: Effect of structure of iron oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 191, 110965.	5.0	8
74	Magnetic Iron Oxide Nanoparticles and Their Applications in Magnetic Resonance Imaging. <i>Sheng Wu Wu Li Hsueh Bao</i> , 2011, 27, 272-288.	0.1	7
75	Keeping up with the COVID' sâ€” Could siRNAâ€”based antivirals be a part of the answer?. <i>Exploration</i> , 2022, 2, .	11.0	7
76	Imaging Tumor Metastases with Molecular Probes. <i>Current Pharmaceutical Design</i> , 2015, 21, 6260-6264.	1.9	6
77	One-pot synthesis of PVP-coated Ni _{0.6} Fe _{2.4} O ₄ nanocrystals. <i>Science Bulletin</i> , 2010, 55, 3472-3478.	1.7	5
78	Functionalization of NaGdF ₄ nanoparticles with a dibromomaleimide-terminated polymer for MR/optical imaging of thrombosis. <i>Polymer Chemistry</i> , 2020, 11, 1010-1017.	3.9	4
79	Multifunctional vectors system for cancer therapy using single-walled carbon nanotubes and antisense oligonucleotide-modified gold nanoparticles composite materials. <i>International Journal of Nanotechnology</i> , 2011, 8, 664.	0.2	1
80	Tumor-penetrating peptides. , 2018, , 371-386.		1
81	Multifunctional vectors system for cancer therapy using single-walled carbon nanotubes and antisense oligonucleotide-modified gold nanoparticles composite materials. , 2010, , .		0