

Ruirui Qiao

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

5,866
citations

76196

40
h-index

74018

75
g-index

83
all docs

83
docs citations

83
times ranked

9283
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospraying Technique and Its Recent Application Advances for Biological Macromolecule Encapsulation of Food Bioactive Substances. <i>Food Reviews International</i> , 2022, 38, 566-588.	4.3	26
2	Recent Advances in Single Fe-Based Nanoagents for Photothermalâ€“Chemodynamic Cancer Therapy. <i>Biosensors</i> , 2022, 12, 86.	2.3	13
3	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.	2.4	24
4	Keeping up with the COVID'sâ€“Could siRNAâ€“based antivirals be a part of the answer?. <i>Exploration</i> , 2022, 2, .	5.4	7
5	Antifouling Surfaces Enabled by Surface Grafting of Highly Hydrophilic Sulfoxide Polymer Brushes. <i>Biomacromolecules</i> , 2021, 22, 330-339.	2.6	43
6	Inhibition of Amyloid Aggregation and Toxicity with Janus Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2021, 33, 6484-6500.	3.2	25
7	Liquid Metal Particles and Polymers: A Softâ€“Soft System with Exciting Properties. <i>Accounts of Materials Research</i> , 2021, 2, 966-978.	5.9	34
8	Engineering macromolecular nanocarriers for local delivery of gaseous signaling molecules. <i>Advanced Drug Delivery Reviews</i> , 2021, 179, 114005.	6.6	30
9	Resorbable polymer electrospun nanofibers: History, shapes and application for tissue engineering. <i>Chinese Chemical Letters</i> , 2020, 31, 617-625.	4.8	94
10	Polymer-Assisted Magnetic Nanoparticle Assemblies for Biomedical Applications. <i>ACS Applied Bio Materials</i> , 2020, 3, 121-142.	2.3	51
11	Functionalization of NaGdF ₄ nanoparticles with a dibromomaleimide-terminated polymer for MR/optical imaging of thrombosis. <i>Polymer Chemistry</i> , 2020, 11, 1010-1017.	1.9	4
12	Biomedical Applications of Liquid Metal Nanoparticles: A Critical Review. <i>Biosensors</i> , 2020, 10, 196.	2.3	59
13	Modular and Integrated Systems for Nanoparticle and Microparticle Synthesisâ€“A Review. <i>Biosensors</i> , 2020, 10, 165.	2.3	17
14	Photoâ€“Degradable Micelles Capable of Releasing of Carbon Monoxide under Visible Light Irradiation. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000323.	2.0	13
15	Sulfoxideâ€“Containing Polymerâ€“Coated Nanoparticles Demonstrate Minimal Protein Fouling and Improved Blood Circulation. <i>Advanced Science</i> , 2020, 7, 2000406.	5.6	43
16	Proteins Conjugated with Sulfoxide-Containing Polymers Show Reduced Macrophage Cellular Uptake and Improved Pharmacokinetics. <i>ACS Macro Letters</i> , 2020, 9, 799-805.	2.3	30
17	Engineering Metalâ€“Organic Frameworks (MOFs) for Controlled Delivery of Physiological Gaseous Transmitters. <i>Nanomaterials</i> , 2020, 10, 1134.	1.9	20
18	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.	5.8	20

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19	Dynamic Temperature Control System for the Optimized Production of Liquid Metal Nanoparticles. ACS Applied Nano Materials, 2020, 3, 6905-6914.	2.4	38
20	Magnetically-stimulated transformations in nanostructure of lipid mesophases: Effect of structure of iron oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2020, 191, 110965.	2.5	8
21	Recent advances in molecular imaging of atherosclerotic plaques and thrombosis. Nanoscale, 2020, 12, 8040-8064.	2.8	38
22	Zero valent iron core-iron oxide shell nanoparticles as small magnetic particle imaging tracers. Chemical Communications, 2020, 56, 3504-3507.	2.2	22
23	Multimodal Nanoprobe for Pancreatic Beta Cell Detection and Amyloidosis Mitigation. Chemistry of Materials, 2020, 32, 1080-1088.	3.2	16
24	Stimuli-responsive nano-assemblies for remotely controlled drug delivery. Journal of Controlled Release, 2020, 322, 566-592.	4.8	107
25	Engineering Organic/Inorganic Nanohybrids through RAFT Polymerization for Biomedical Applications. Biomacromolecules, 2019, 20, 4243-4257.	2.6	35
26	Phase Separation in Liquid Metal Nanoparticles. Matter, 2019, 1, 192-204.	5.0	110
27	Polymorphism and stability of nanostructures of three types of collagens from bovine flexor tendon, rat tail, and tilapia skin. Food Hydrocolloids, 2019, 93, 253-260.	5.6	43
28	Effect of extraction methods on the preparation of electrospun/electrosprayed microstructures of tilapia skin collagen. Journal of Bioscience and Bioengineering, 2019, 128, 234-240.	1.1	59
29	Electrospun Nanofibrous Cellulose Acetate/Curcumin Membranes for Fast Detection of Pb Ions. Journal of Nanoscience and Nanotechnology, 2019, 19, 670-674.	0.9	10
30	Electrospun Nanobelt-Shaped Polymer Membranes for Fast and High-Sensitivity Detection of Metal Ions. ACS Applied Materials & Interfaces, 2019, 11, 5401-5413.	4.0	31
31	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. Advanced Materials Technologies, 2019, 4, 1800420.	3.0	78
32	Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles. Small, 2018, 14, e1800118.	5.2	117
33	Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an <i>in vitro</i> blood brain barrier model. Biomaterials Science, 2018, 6, 314-323.	2.6	36
34	Sonication-enabled rapid production of stable liquid metal nanoparticles grafted with poly(1-octadecene-co-maleic anhydride) in aqueous solutions. Nanoscale, 2018, 10, 19871-19878.	2.8	98
35	Arginine-Rich Manganese Silicate Nanobubbles as a Ferroptosis-Inducing Agent for Tumor-Targeted Theranostics. ACS Nano, 2018, 12, 12380-12392.	7.3	292
36	Bioconjugation and Fluorescence Labeling of Iron Oxide Nanoparticles Grafted with Bromomaleimide-Terminal Polymers. Biomacromolecules, 2018, 19, 4423-4429.	2.6	32

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37	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.	5.2	71
38	Biologically Targeted Magnetic Hyperthermia: Potential and Limitations. <i>Frontiers in Pharmacology</i> , 2018, 9, 831.	1.6	340
39	Tumor-penetrating peptides. , 2018, , 371-386.		1
40	Recent Advances in Magnetic Nanoparticle-based Molecular Probes for Hepatocellular Carcinoma Diagnosis and Therapy. <i>Current Pharmaceutical Design</i> , 2018, 24, 2432-2437.	0.9	13
41	Recent Advances of Electrospun Nanofibrous Membranes in the Development of Chemosensors for Heavy Metal Detection. <i>Small</i> , 2017, 13, 1604293.	5.2	63
42	Molecular Imaging of Vulnerable Atherosclerotic Plaques <i>in Vivo</i> with Osteopontin-Specific Upconversion Nanoprobes. <i>ACS Nano</i> , 2017, 11, 1816-1825.	7.3	91
43	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.	5.7	169
44	Instrumental Analytical Techniques for the Characterization of Crystals in Pharmaceuticals and Foods. <i>Crystal Growth and Design</i> , 2017, 17, 6138-6148.	1.4	11
45	Synthesis of Star Polymers by RAFT Polymerization as Versatile Nanoparticles for Biomedical Applications. <i>Australian Journal of Chemistry</i> , 2017, 70, 1161.	0.5	27
46	Magnetic tweezers for the mechanical research of DNA at the single molecule level. <i>Analytical Methods</i> , 2017, 9, 5720-5730.	1.3	20
47	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.	5.7	71
48	Detection of early primary colorectal cancer with upconversion luminescent NP-based molecular probes. <i>Nanoscale</i> , 2016, 8, 12579-12587.	2.8	36
49	Ultrasensitive <i>in Vivo</i> Detection of Primary Gastric Tumor and Lymphatic Metastasis Using Upconversion Nanoparticles. <i>ACS Nano</i> , 2015, 9, 2120-2129.	7.3	90
50	Aqueous synthesis of PEGylated copper sulfide nanoparticles for photoacoustic imaging of tumors. <i>Nanoscale</i> , 2015, 7, 11075-11081.	2.8	68
51	Imaging Tumor Metastases with Molecular Probes. <i>Current Pharmaceutical Design</i> , 2015, 21, 6260-6264.	0.9	6
52	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.	1.5	35
53	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.	11.1	194
54	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.	2.2	50

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55	In vivo 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.	2.8	54
56	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.	7.3	336
57	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.	1.5	58
58	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.	7.3	207
59	Ultrasmall PEGylated Mn _x Fe _{3-x} O ₄ (x = 0-0.34) nanoparticles: effects of Mn(II) doping on T1- and T2-weighted magnetic resonance imaging. <i>RSC Advances</i> , 2013, 3, 23454.	1.7	19
60	Receptor-Mediated Delivery of Magnetic Nanoparticles across the Blood-Brain Barrier. <i>ACS Nano</i> , 2012, 6, 3304-3310.	7.3	272
61	Surface-biofunctionalized multicore/shell CdTe@SiO ₂ composite particles for immunofluorescence assay. <i>Nanotechnology</i> , 2011, 22, 505104.	1.3	18
62	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.	6.6	66
63	Aqueous synthesis of CdTe nanocrystals: progresses and perspectives. <i>Chemical Communications</i> , 2011, 47, 9293.	2.2	99
64	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.	0.1	1
65	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.	3.2	216
66	Quantum dot-antisense oligonucleotide conjugates for multifunctional gene transfection, mRNA regulation, and tracking of biological processes. <i>Biomaterials</i> , 2011, 32, 1923-1931.	5.7	40
67	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
68	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
69	Monodispersed Magnetic Polystyrene Beads with Excellent Colloidal Stability and Strong Magnetic Response. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1805-1810.	2.0	16
70	Multifunctional vectors system for cancer therapy using single-walled carbon nanotubes and antisense oligonucleotide-modified gold nanoparticles composite materials. , 2010, , .		0
71	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.	1.5	64
72	Highly Fluorescent CdTe@SiO ₂ Particles Prepared via Reverse Microemulsion Method. <i>Chemistry of Materials</i> , 2010, 22, 420-427.	3.2	107

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73	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.	5.3	45
74	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.	5.3	29
75	Rapid and sensitive detection of microcystin by immunosensor based on nuclear magnetic resonance. <i>Biosensors and Bioelectronics</i> , 2009, 25, 240-243.	5.3	70
76	Simultaneous and sensitive determination of multiplex chemical residues based on multicolor quantum dot probes. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3657-3662.	5.3	99
77	Superparamagnetic iron oxide nanoparticles: from preparations to in vivo MRI applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 6274.	6.7	610
78	Polyaniline/Fe ₃ O ₄ Nanoparticle Composite: Synthesis and Reaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5052-5058.	1.2	98
79	A Novel Type of Dual-Modality Molecular Probe for MR and Nuclear Imaging of Tumor: Preparation, Characterization and in Vivo Application. <i>Molecular Pharmaceutics</i> , 2009, 6, 1074-1082.	2.3	79
80	Effects of Quantum Dots in Polymerase Chain Reaction. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7637-7641.	1.2	57
81	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.	1.2	115