

Ru Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

22,500
citations

29994

54
h-index

106150

65
g-index

73
all docs

73
docs citations

73
times ranked

18771
citing authors

#	ARTICLE	IF	CITATIONS
1	High-precision tumor resection down to few-cell level guided by NIR-IIb molecular fluorescence imaging. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2123111119.	3.3	26
2	Defective Fe Metal-Organic Frameworks Enhance Metabolic Profiling for High-Accuracy Diagnosis of Human Cancers. Advanced Materials, 2022, 34, e2201422.	11.1	39
3	In vivo NIR-II structured-illumination light-sheet microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	39
4	Rational Design of High Brightness NIR-II Organic Dyes with S-D-A-D-S Structure. Accounts of Materials Research, 2021, 2, 170-183.	5.9	84
5	Rechargeable Na/Cl ₂ and Li/Cl ₂ batteries. Nature, 2021, 596, 525-530.	13.7	103
6	Deep learning for in vivo near-infrared imaging. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	53
7	Ionic Liquid Analogs of AlCl ₃ with Urea Derivatives as Electrolytes for Aluminum Batteries. Advanced Functional Materials, 2020, 30, 1901928.	7.8	74
8	Diagnosis and prognosis of myocardial infarction on a plasmonic chip. Nature Communications, 2020, 11, 1654.	5.8	83
9	A mini-review on rare-earth down-conversion nanoparticles for NIR-II imaging of biological systems. Nano Research, 2020, 13, 1281-1294.	5.8	105
10	Recent Advances in Development of NIR-II Fluorescent Agents. , 2020, , 83-101.		4
11	Light-sheet microscopy in the near-infrared II window. Nature Methods, 2019, 16, 545-552.	9.0	151
12	Molecular Imaging in the Second Near-Infrared Window. Advanced Functional Materials, 2019, 29, 1900566.	7.8	125
13	Rechargeable aluminum batteries: effects of cations in ionic liquid electrolytes. RSC Advances, 2019, 9, 11322-11330.	1.7	66
14	Near-Infrared-II Molecular Dyes for Cancer Imaging and Surgery. Advanced Materials, 2019, 31, e1900321.	11.1	631
15	Label-Free Electrochemical Sensor for CD44 by Ligand-Protein Interaction. Analytical Chemistry, 2019, 91, 7078-7085.	3.2	77
16	Circulating Tumor Cells: Magnetic "Squashing" of Circulating Tumor Cells on Plasmonic Substrates for Ultrasensitive NIR Fluorescence Detection (Small Methods 2/2019). Small Methods, 2019, 3, 1970004.	4.6	5
17	In vivo molecular imaging for immunotherapy using ultra-bright near-infrared-IIb rare-earth nanoparticles. Nature Biotechnology, 2019, 37, 1322-1331.	9.4	398
18	Magnetic "Squashing" of Circulating Tumor Cells on Plasmonic Substrates for Ultrasensitive NIR Fluorescence Detection. Small Methods, 2019, 3, 1800474.	4.6	52

#	ARTICLE	IF	CITATIONS
19	Bacteria Inhibition: Detection and Inhibition of Bacteria on a Dual-Functional Silver Platform (Small) Tj ETQq1 1 0.784314 rgBJ /Overlock	5.2	54
20	Detection and Inhibition of Bacteria on a Dual-Functional Silver Platform. <i>Small</i> , 2019, 15, e1803051.	5.2	54
21	A theranostic agent for cancer therapy and imaging in the second near-infrared window. <i>Nano Research</i> , 2019, 12, 273-279.	5.8	86
22	Molecular Cancer Imaging in the Second Near-Infrared Window Using a Renal-Excreted NIR-II Fluorophore-Peptide Probe. <i>Advanced Materials</i> , 2018, 30, e1800106.	11.1	115
23	Donor Engineering for NIR-II Molecular Fluorophores with Enhanced Fluorescent Performance. <i>Journal of the American Chemical Society</i> , 2018, 140, 1715-1724.	6.6	379
24	3D NIR-II Molecular Imaging Distinguishes Targeted Organs with High-Performance NIR-II Bioconjugates. <i>Advanced Materials</i> , 2018, 30, e1705799.	11.1	150
25	Metabolic Fingerprinting on a Plasmonic Gold Chip for Mass Spectrometry Based <i>in Vitro</i> Diagnostics. <i>ACS Central Science</i> , 2018, 4, 223-229.	5.3	106
26	A bright organic NIR-II nanofluorophore for three-dimensional imaging into biological tissues. <i>Nature Communications</i> , 2018, 9, 1171.	5.8	353
27	Extraction, detection, and profiling of serum biomarkers using designed Fe ₃ O ₄ @SiO ₂ @HA core-shell particles. <i>Nano Research</i> , 2018, 11, 68-79.	5.8	65
28	A Label-Free Electrochemical Biosensor Based on Ligand-Receptor Interaction. , 2018, , .		1
29	Hybrid Core-shell Particles for Metabolite Detection by Laser Desorption/ionization Mass Spectrometry. , 2018, , .		0
30	Combined immunomagnetic capture coupled with ultrasensitive plasmonic detection of circulating tumor cells in blood. <i>Biomedical Microdevices</i> , 2018, 20, 99.	1.4	10
31	Size-selected Core-shell Nanoalloys for Laser Desorption/ionization Detection of Small Metabolites. , 2018, , .		0
32	Nanoparticles as Co-matrix for Sensitive Detection of Nucleic Acids by Mass Spectrometry. , 2018, , .		0
33	Developing a Bright NIR-II Fluorophore with Fast Renal Excretion and Its Application in Molecular Imaging of Immune Checkpoint PD-1. <i>Advanced Functional Materials</i> , 2018, 28, 1804956.	7.8	85
34	Near-Infrared IIb Fluorescence Imaging of Vascular Regeneration with Dynamic Tissue Perfusion Measurement and High Spatial Resolution. <i>Advanced Functional Materials</i> , 2018, 28, 1803417.	7.8	107
35	Bright quantum dots emitting at \sim 1,600 nm in the NIR-IIb window for deep tissue fluorescence imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6590-6595.	3.3	310
36	Molecular imaging of biological systems with a clickable dye in the broad 800- to 1,700-nm near-infrared window. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 962-967.	3.3	230

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37	High Coulombic efficiency aluminum-ion battery using an AlCl ₃ -urea ionic liquid analog electrolyte. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 834-839.	3.3	306
38	Rational Design of Molecular Fluorophores for Biological Imaging in the NIR-II Window. Advanced Materials, 2017, 29, 1605497.	11.1	356
39	Near-infrared fluorophores for biomedical imaging. Nature Biomedical Engineering, 2017, 1, .	11.6	1,982
40	Diagnosis of Zika virus infection on a nanotechnology platform. Nature Medicine, 2017, 23, 548-550.	15.2	130
41	Live imaging of follicle stimulating hormone receptors in gonads and bones using near infrared II fluorophore. Chemical Science, 2017, 8, 3703-3711.	3.7	96
42	Advanced rechargeable aluminium ion battery with a high-quality natural graphite cathode. Nature Communications, 2017, 8, 14283.	5.8	453
43	A high quantum yield molecule-protein complex fluorophore for near-infrared II imaging. Nature Communications, 2017, 8, 15269.	5.8	458
44	Autoantibody profiling on a plasmonic nano-gold chip for the early detection of hypertensive heart disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7089-7094.	3.3	30
45	Boosting the down-shifting luminescence of rare-earth nanocrystals for biological imaging beyond 1500nm. Nature Communications, 2017, 8, 737.	5.8	416
46	Plasmonic silver nanoshells for drug and metabolite detection. Nature Communications, 2017, 8, 220.	5.8	166
47	Proteoliposome-based full-length ZnT8 self-antigen for type 1 diabetes diagnosis on a plasmonic platform. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10196-10201.	3.3	31
48	Lipidomics study using novel plasmonic nanoshells. , 2017, , .		0
49	Polymer-metal composites for sensitive detection of metabolites by mass spectrometry. , 2017, , .		0
50	Traumatic Brain Injury Imaging in the Second Near-Infrared Window with a Molecular Fluorophore. Advanced Materials, 2016, 28, 6872-6879.	11.1	311
51	Novel surface engineered micro-needles towards bio-analytical applications. , 2016, , .		0
52	High Performance, Multiplexed Lung Cancer Biomarker Detection on a Plasmonic Gold Chip. Advanced Functional Materials, 2016, 26, 7994-8002.	7.8	84
53	3D Graphitic Foams Derived from Chloroaluminate Anion Intercalation for Ultrafast Aluminum-Ion Battery. Advanced Materials, 2016, 28, 9218-9222.	11.1	302
54	A small-molecule dye for NIR-II imaging. Nature Materials, 2016, 15, 235-242.	13.3	1,314

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55	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. <i>Chemical Reviews</i> , 2015, 115, 10816-10906.	23.0	1,151
56	An ultrafast rechargeable aluminium-ion battery. <i>Nature</i> , 2015, 520, 324-328.	13.7	1,970
57	Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14758-14762.	7.2	310
58	Through-skull fluorescence imaging of the brain in a new near-infrared window. <i>Nature Photonics</i> , 2014, 8, 723-730.	15.6	829
59	A plasmonic chip for biomarker discovery and diagnosis of type 1 diabetes. <i>Nature Medicine</i> , 2014, 20, 948-953.	15.2	142
60	Ultrafast fluorescence imaging in vivo with conjugated polymer fluorophores in the second near-infrared window. <i>Nature Communications</i> , 2014, 5, 4206.	5.8	470
61	Ultra-Low Doses of Chirality Sorted (6,5) Carbon Nanotubes for Simultaneous Tumor Imaging and Photothermal Therapy. <i>ACS Nano</i> , 2013, 7, 3644-3652.	7.3	279
62	Biodistribution, pharmacokinetics and toxicology of Ag ₂ S near-infrared quantum dots in mice. <i>Biomaterials</i> , 2013, 34, 3639-3646.	5.7	228
63	Biological Imaging Using Nanoparticles of Small Organic Molecules with Fluorescence Emission at Wavelengths Longer than 1000 nm. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13002-13006.	7.2	261
64	Multifunctional in vivo vascular imaging using near-infrared II fluorescence. <i>Nature Medicine</i> , 2012, 18, 1841-1846.	15.2	836
65	In Vivo Fluorescence Imaging in the Second Near-Infrared Window with Long Circulating Carbon Nanotubes Capable of Ultrahigh Tumor Uptake. <i>Journal of the American Chemical Society</i> , 2012, 134, 10664-10669.	6.6	373
66	In Vivo Fluorescence Imaging with Ag ₂ S Quantum Dots in the Second Near-Infrared Region. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9818-9821.	7.2	645
67	Ag ₂ S Quantum Dot: A Bright and Biocompatible Fluorescent Nanoprobe in the Second Near-Infrared Window. <i>ACS Nano</i> , 2012, 6, 3695-3702.	7.3	669
68	Plasmonic substrates for multiplexed protein microarrays with femtomolar sensitivity and broad dynamic range. <i>Nature Communications</i> , 2011, 2, 466.	5.8	221
69	Deep-tissue anatomical imaging of mice using carbon nanotube fluorophores in the second near-infrared window. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8943-8948.	3.3	817
70	A route to brightly fluorescent carbon nanotubes for near-infrared imaging in mice. <i>Nature Nanotechnology</i> , 2009, 4, 773-780.	15.6	1,068
71	Nanotube Molecular Transporters: Internalization of Carbon Nanotube-Protein Conjugates into Mammalian Cells. <i>Journal of the American Chemical Society</i> , 2004, 126, 6850-6851.	6.6	1,284