

Ru Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

16,801
citations

48
h-index

73
g-index

73
ext. papers

19,555
ext. citations

19
avg, IF

6.88
L-index

#	Paper	IF	Citations
67	High-precision tumor resection down to few-cell level guided by NIR-IIb molecular fluorescence imaging.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2123111	11.5	119
66	Defective Fe Metal-organic Frameworks Enhance Metabolic Profiling for High-accuracy Diagnosis of Human Cancers.. <i>Advanced Materials</i> , 2022 , e2201422	24	5
65	Deep learning for in vivo near-infrared imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	15
64	In vivo NIR-II structured-illumination light-sheet microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	11
63	Rational Design of High Brightness NIR-II Organic Dyes with S-D-A-D-S Structure. <i>Accounts of Materials Research</i> , 2021 , 2, 170-183	7.5	24
62	Rechargeable Na/Cl and Li/Cl batteries. <i>Nature</i> , 2021 , 596, 525-530	50.4	22
61	Diagnosis and prognosis of myocardial infarction on a plasmonic chip. <i>Nature Communications</i> , 2020 , 11, 1654	17.4	55
60	Recent Advances in Development of NIR-II Fluorescent Agents 2020 , 83-101		0
59	Ionic Liquid Analogs of AlCl ₃ with Urea Derivatives as Electrolytes for Aluminum Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1901928	15.6	41
58	A mini-review on rare-earth down-conversion nanoparticles for NIR-II imaging of biological systems. <i>Nano Research</i> , 2020 , 13, 1281-1294	10	41
57	Light-sheet microscopy in the near-infrared II window. <i>Nature Methods</i> , 2019 , 16, 545-552	21.6	93
56	Molecular imaging in the second near-infrared window. <i>Advanced Functional Materials</i> , 2019 , 29, 1900566	15.6	85
55	Rechargeable aluminum batteries: effects of cations in ionic liquid electrolytes.. <i>RSC Advances</i> , 2019 , 9, 11322-11330	3.7	44
54	Near-Infrared-II Molecular Dyes for Cancer Imaging and Surgery. <i>Advanced Materials</i> , 2019 , 31, e1900321	12.4	305
53	Label-Free Electrochemical Sensor for CD44 by Ligand-Protein Interaction. <i>Analytical Chemistry</i> , 2019 , 91, 7078-7085	7.8	46
52	Circulating Tumor Cells: Magnetic Squashing of Circulating Tumor Cells on Plasmonic Substrates for Ultrasensitive NIR Fluorescence Detection (Small Methods 2/2019). <i>Small Methods</i> , 2019 , 3, 1970004	12.8	4
51	In vivo molecular imaging for immunotherapy using ultra-bright near-infrared-IIb rare-earth nanoparticles. <i>Nature Biotechnology</i> , 2019 , 37, 1322-1331	44.5	198

50	Magnetic Squashing of Circulating Tumor Cells on Plasmonic Substrates for Ultrasensitive NIR Fluorescence Detection. <i>Small Methods</i> , 2019 , 3, 1800474	12.8	44
49	Bacteria Inhibition: Detection and Inhibition of Bacteria on a Dual-Functional Silver Platform (Small 3/2019). <i>Small</i> , 2019 , 15, 1970020	11	5
48	Detection and Inhibition of Bacteria on a Dual-Functional Silver Platform. <i>Small</i> , 2019 , 15, e1803051	11	47
47	A theranostic agent for cancer therapy and imaging in the second near-infrared window. <i>Nano Research</i> , 2019 , 12, 273-279	10	60
46	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	24	88
45	Donor Engineering for NIR-II Molecular Fluorophores with Enhanced Fluorescent Performance. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1715-1724	16.4	254
44	3D NIR-II Molecular Imaging Distinguishes Targeted Organs with High-Performance NIR-II Bioconjugates. <i>Advanced Materials</i> , 2018 , 30, e1705799	24	111
43	Metabolic Fingerprinting on a Plasmonic Gold Chip for Mass Spectrometry Based Diagnostics. <i>ACS Central Science</i> , 2018 , 4, 223-229	16.8	83
42	A bright organic NIR-II nanofluorophore for three-dimensional imaging into biological tissues. <i>Nature Communications</i> , 2018 , 9, 1171	17.4	242
41	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	15.6	80
40	Bright quantum dots emitting at ~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	11.5	209
39	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	10	50
38	A Label-Free Electrochemical Biosensor Based on Ligand-Receptor Interaction 2018 ,		1
37	Combined immunomagnetic capture coupled with ultrasensitive plasmonic detection of circulating tumor cells in blood. <i>Biomedical Microdevices</i> , 2018 , 20, 99	3.7	6
36	Developing a Bright NIR-II Fluorophore with Fast Renal Excretion and Its Application in Molecular Imaging of Immune Checkpoint PD-L1. <i>Advanced Functional Materials</i> , 2018 , 28, 1804956	15.6	61
35	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	11.5	192
34	High Coulombic efficiency aluminum-ion battery using an AlCl ₃ -urea ionic liquid analog electrolyte. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 834-839	11.5	227
33	Rational Design of Molecular Fluorophores for Biological Imaging in the NIR-II Window. <i>Advanced Materials</i> , 2017 , 29, 1605497	24	251

32	Near-infrared fluorophores for biomedical imaging. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	1255
31	Diagnosis of Zika virus infection on a nanotechnology platform. <i>Nature Medicine</i> , 2017 , 23, 548-550	50.5	92
30	Live imaging of follicle stimulating hormone receptors in gonads and bones using near infrared II fluorophore. <i>Chemical Science</i> , 2017 , 8, 3703-3711	9.4	84
29	Advanced rechargeable aluminium ion battery with a high-quality natural graphite cathode. <i>Nature Communications</i> , 2017 , 8, 14283	17.4	358
28	A high quantum yield molecule-protein complex fluorophore for near-infrared II imaging. <i>Nature Communications</i> , 2017 , 8, 15269	17.4	320
27	Autoantibody profiling on a plasmonic nano-gold chip for the early detection of hypertensive heart disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7089-7094	11.5	22
26	Boosting the down-shifting luminescence of rare-earth nanocrystals for biological imaging beyond 1500 nm. <i>Nature Communications</i> , 2017 , 8, 737	17.4	280
25	Plasmonic silver nanoshells for drug and metabolite detection. <i>Nature Communications</i> , 2017 , 8, 220	17.4	117
24	Proteoliposome-based full-length ZnT8 self-antigen for type 1 diabetes diagnosis on a plasmonic platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10196-10201	11.5	20
23	3D Graphitic Foams Derived from Chloroaluminate Anion Intercalation for Ultrafast Aluminum-Ion Battery. <i>Advanced Materials</i> , 2016 , 28, 9218-9222	24	256
22	A small-molecule dye for NIR-II imaging. <i>Nature Materials</i> , 2016 , 15, 235-42	27	939
21	Traumatic Brain Injury Imaging in the Second Near-Infrared Window with a Molecular Fluorophore. <i>Advanced Materials</i> , 2016 , 28, 6872-9	24	240
20	High Performance, Multiplexed Lung Cancer Biomarker Detection on a Plasmonic Gold Chip. <i>Advanced Functional Materials</i> , 2016 , 26, 7994-8002	15.6	68
19	An ultrafast rechargeable aluminium-ion battery. <i>Nature</i> , 2015 , 520, 325-8	50.4	1522
18	Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14758-62	16.4	231
17	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. <i>Chemical Reviews</i> , 2015 , 115, 10816-906	68.1	902
16	Through-skull fluorescence imaging of the brain in a new near-infrared window. <i>Nature Photonics</i> , 2014 , 8, 723-730	33.9	642
15	A plasmonic chip for biomarker discovery and diagnosis of type 1 diabetes. <i>Nature Medicine</i> , 2014 , 20, 948-53	50.5	113

14	Ultrafast fluorescence imaging in vivo with conjugated polymer fluorophores in the second near-infrared window. <i>Nature Communications</i> , 2014 , 5, 4206	17.4	394
13	Ultra-low doses of chirality sorted (6,5) carbon nanotubes for simultaneous tumor imaging and photothermal therapy. <i>ACS Nano</i> , 2013 , 7, 3644-52	16.7	249
12	Biodistribution, pharmacokinetics and toxicology of Ag2S near-infrared quantum dots in mice. <i>Biomaterials</i> , 2013 , 34, 3639-46	15.6	205
11	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, 13002-6	16.4	215
10	Biological Imaging Using Nanoparticles of Small Organic Molecules with Fluorescence Emission at Wavelengths Longer than 1000 nm. <i>Angewandte Chemie</i> , 2013 , 125, 13240-13244	3.6	53
9	Multifunctional in vivo vascular imaging using near-infrared II fluorescence. <i>Nature Medicine</i> , 2012 , 18, 1841-6	50.5	677
8	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, 10664-9	16.4	315
7	In Vivo Fluorescence Imaging with Ag2S Quantum Dots in the Second Near-Infrared Region. <i>Angewandte Chemie</i> , 2012 , 124, 9956-9959	3.6	118
6	In vivo fluorescence imaging with Ag2S quantum dots in the second near-infrared region. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9818-21	16.4	551
5	Ag2S quantum dot: a bright and biocompatible fluorescent nanoprobe in the second near-infrared window. <i>ACS Nano</i> , 2012 , 6, 3695-702	16.7	576
4	Plasmonic substrates for multiplexed protein microarrays with femtomolar sensitivity and broad dynamic range. <i>Nature Communications</i> , 2011 , 2, 466	17.4	196
3	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, 8943-8	11.5	705
2	A route to brightly fluorescent carbon nanotubes for near-infrared imaging in mice. <i>Nature Nanotechnology</i> , 2009 , 4, 773-80	28.7	886
1	Nanotube molecular transporters: internalization of carbon nanotube-protein conjugates into Mammalian cells. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6850-1	16.4	1198