

Ru Zhang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8731275/ru-zhang-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	An ultrafast rechargeable aluminium-ion battery. <i>Nature</i> , 2015 , 520, 325-8	50.4	1522
66	Near-infrared fluorophores for biomedical imaging. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	1255
65	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
64	A small-molecule dye for NIR-II imaging. <i>Nature Materials</i> , 2016 , 15, 235-42	27	939
63	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. <i>Chemical Reviews</i> , 2015 , 115, 10816-906	68.1	902
62	A route to brightly fluorescent carbon nanotubes for near-infrared imaging in mice. <i>Nature Nanotechnology</i> , 2009 , 4, 773-80	28.7	886
61	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
60	Multifunctional in vivo vascular imaging using near-infrared II fluorescence. <i>Nature Medicine</i> , 2012 , 18, 1841-6	50.5	677
59	Through-skull fluorescence imaging of the brain in a new near-infrared window. <i>Nature Photonics</i> , 2014 , 8, 723-730	33.9	642
58	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
57	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
56	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
55	Advanced rechargeable aluminium ion battery with a high-quality natural graphite cathode. <i>Nature Communications</i> , 2017 , 8, 14283	17.4	358
54	A high quantum yield molecule-protein complex fluorophore for near-infrared II imaging. <i>Nature Communications</i> , 2017 , 8, 15269	17.4	320
53	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, 10664-94	16.4	315
52	Near-Infrared-II Molecular Dyes for Cancer Imaging and Surgery. <i>Advanced Materials</i> , 2019 , 31, e190032124	12.4	305
51	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

50	3D Graphitic Foams Derived from Chloroaluminate Anion Intercalation for Ultrafast Aluminum-Ion Battery. <i>Advanced Materials</i> , 2016 , 28, 9218-9222	24	256
49	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
48	Rational Design of Molecular Fluorophores for Biological Imaging in the NIR-II Window. <i>Advanced Materials</i> , 2017 , 29, 1605497	24	251
47	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
46	A bright organic NIR-II nanofluorophore for three-dimensional imaging into biological tissues. <i>Nature Communications</i> , 2018 , 9, 1171	17.4	242
45	Traumatic Brain Injury Imaging in the Second Near-Infrared Window with a Molecular Fluorophore. <i>Advanced Materials</i> , 2016 , 28, 6872-9	24	240
44	Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14758-62	16.4	231
43	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
42	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
41	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
40	Biodistribution, pharmacokinetics and toxicology of Ag ₂ S near-infrared quantum dots in mice. <i>Biomaterials</i> , 2013 , 34, 3639-46	15.6	205
39	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
38	Plasmonic substrates for multiplexed protein microarrays with femtomolar sensitivity and broad dynamic range. <i>Nature Communications</i> , 2011 , 2, 466	17.4	196
37	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
36	In Vivo Fluorescence Imaging with Ag ₂ S Quantum Dots in the Second Near-Infrared Region. <i>Angewandte Chemie</i> , 2012 , 124, 9956-9959	3.6	118
35	Plasmonic silver nanoshells for drug and metabolite detection. <i>Nature Communications</i> , 2017 , 8, 220	17.4	117
34	A plasmonic chip for biomarker discovery and diagnosis of type 1 diabetes. <i>Nature Medicine</i> , 2014 , 20, 948-53	50.5	113
33	3D NIR-II Molecular Imaging Distinguishes Targeted Organs with High-Performance NIR-II Bioconjugates. <i>Advanced Materials</i> , 2018 , 30, e1705799	24	111

32	Light-sheet microscopy in the near-infrared II window. <i>Nature Methods</i> , 2019 , 16, 545-552	21.6	93
31	Diagnosis of Zika virus infection on a nanotechnology platform. <i>Nature Medicine</i> , 2017 , 23, 548-550	50.5	92
30	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
29	Molecular imaging in the second near-infrared window. <i>Advanced Functional Materials</i> , 2019 , 29, 1900566	15.6	85
28	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
27	Metabolic Fingerprinting on a Plasmonic Gold Chip for Mass Spectrometry Based Diagnostics. <i>ACS Central Science</i> , 2018 , 4, 223-229	16.8	83
26	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
25	High Performance, Multiplexed Lung Cancer Biomarker Detection on a Plasmonic Gold Chip. <i>Advanced Functional Materials</i> , 2016 , 26, 7994-8002	15.6	68
24	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
23	A theranostic agent for cancer therapy and imaging in the second near-infrared window. <i>Nano Research</i> , 2019 , 12, 273-279	10	60
22	Diagnosis and prognosis of myocardial infarction on a plasmonic chip. <i>Nature Communications</i> , 2020 , 11, 1654	17.4	55
21	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
20	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
19	Detection and Inhibition of Bacteria on a Dual-Functional Silver Platform. <i>Small</i> , 2019 , 15, e1803051	11	47
18	Label-Free Electrochemical Sensor for CD44 by Ligand-Protein Interaction. <i>Analytical Chemistry</i> , 2019 , 91, 7078-7085	7.8	46
17	Rechargeable aluminum batteries: effects of cations in ionic liquid electrolytes.. <i>RSC Advances</i> , 2019 , 9, 11322-11330	3.7	44
16	Magnetic Squashing of Circulating Tumor Cells on Plasmonic Substrates for Ultrasensitive NIR Fluorescence Detection. <i>Small Methods</i> , 2019 , 3, 1800474	12.8	44
15	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

14	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
13	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
12	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
11	Rechargeable Na/Cl and Li/Cl batteries. <i>Nature</i> , 2021 , 596, 525-530	50.4	22
10	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
9	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
8	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
7	Combined immunomagnetic capture coupled with ultrasensitive plasmonic detection of circulating tumor cells in blood. <i>Biomedical Microdevices</i> , 2018 , 20, 99	3.7	6
6	Bacteria Inhibition: Detection and Inhibition of Bacteria on a Dual-Functional Silver Platform (Small 3/2019). <i>Small</i> , 2019 , 15, 1970020	11	5
5	Defective Fe Metal-organic Frameworks Enhance Metabolic Profiling for High-accuracy Diagnosis of Human Cancers.. <i>Advanced Materials</i> , 2022 , e2201422	24	5
4	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
3	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, e2123711	11.5	19
2	A Label-Free Electrochemical Biosensor Based on Ligand-Receptor Interaction 2018 ,		1
1	Recent Advances in Development of NIR-II Fluorescent Agents 2020 , 83-101		0