

Hongjie Dai

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.

93
papers

33,001
citations

58
h-index

97
g-index

97
ext. papers

37,665
ext. citations

19.2
avg, IF

7.57
L-index

#	Paper	IF	Citations
93	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, e2123711119	11.5	19
92	Probing dissolved CO(aq) in aqueous solutions for CO electroreduction and storage.. <i>Science Advances</i> , 2022 , 8, eabo0399	14.3	1
91	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
90	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
89	Selective and High Current CO Electro-Reduction to Multicarbon Products in Near-Neutral KCl Electrolytes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3245-3255	16.4	35
88	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
87	Rechargeable Na/Cl and Li/Cl batteries. <i>Nature</i> , 2021 , 596, 525-530	50.4	22
86	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. <i>Nature Electronics</i> , 2021 , 4, 653-663	28.4	14
85	Tuning Dynamically Formed Active Phases and Catalytic Mechanisms of Electrochemically Activated Layered Double Hydroxide for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2021 , 15, 14996-15006	16.7	10
84	Exploring the performance of carbonate and ether-based electrolytes for anode-free lithium metal batteries operating under various conditions. <i>Journal of Power Sources</i> , 2021 , 512, 230388	8.9	3
83	Diagnosis and prognosis of myocardial infarction on a plasmonic chip. <i>Nature Communications</i> , 2020 , 11, 1654	17.4	55
82	Hierarchical 3D Architected Ag Nanowires Shelled with NiMn-Layered Double Hydroxide as an Efficient Bifunctional Oxygen Electrocatalyst. <i>ACS Nano</i> , 2020 , 14, 1770-1782	16.7	68
81	High-Rate and Long-Cycle Stability with a Dendrite-Free Zinc Anode in an Aqueous Zn-Ion Battery Using Concentrated Electrolytes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4499-4508	6.1	43
80	Electroreduction of CO to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7276-7282	16.4	84
79	Recent Advances in Development of NIR-II Fluorescent Agents 2020 , 83-101		0
78	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
77	Cross-Link-Functionalized Nanoparticles for Rapid Excretion in Nanotheranostic Applications. <i>Angewandte Chemie</i> , 2020 , 132, 20733-20741	3.6	2

76	Cross-Link-Functionalized Nanoparticles for Rapid Excretion in Nanotheranostic Applications. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20552-20560	16.4	12
75	Molecular engineering of dispersed nickel phthalocyanines on carbon nanotubes for selective CO ₂ reduction. <i>Nature Energy</i> , 2020 , 5, 684-692	62.3	151
74	A high-performance potassium metal battery using safe ionic liquid electrolyte. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27847-27853	11.5	20
73	Resolving the Phase Instability of a Fluorinated Ether, Carbonate-Based Electrolyte for the Safe Operation of an Anode-Free Lithium Metal Battery. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10722-10733	6.1	9
72	Quantification of antibody avidities and accurate detection of SARS-CoV-2 antibodies in serum and saliva on plasmonic substrates. <i>Nature Biomedical Engineering</i> , 2020 , 4, 1188-1196	19	40
71	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
70	High-Safety and High-Energy-Density Lithium Metal Batteries in a Novel Ionic-Liquid Electrolyte. <i>Advanced Materials</i> , 2020 , 32, e2001741	24	81
69	Plasmonic gold chips for the diagnosis of <i>Toxoplasma gondii</i> , CMV, and rubella infections using saliva with serum detection precision. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2019 , 38, 883-890	5.3	13
68	Dual electrolyte additives of potassium hexafluorophosphate and tris (trimethylsilyl) phosphite for anode-free lithium metal batteries. <i>Electrochimica Acta</i> , 2019 , 316, 52-59	6.7	34
67	Light-sheet microscopy in the near-infrared II window. <i>Nature Methods</i> , 2019 , 16, 545-552	21.6	93
66	Molecular imaging in the second near-infrared window. <i>Advanced Functional Materials</i> , 2019 , 29, 1900566	5.6	85
65	Concentrated Dual-Salt Electrolyte to Stabilize Li Metal and Increase Cycle Life of Anode Free Li-Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1501-A1509	3.9	57
64	Rechargeable aluminum batteries: effects of cations in ionic liquid electrolytes.. <i>RSC Advances</i> , 2019 , 9, 11322-11330	3.7	44
63	Near-Infrared-II Molecular Dyes for Cancer Imaging and Surgery. <i>Advanced Materials</i> , 2019 , 31, e1900321	12.4	305
62	Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6624-6629	11.5	223
61	Effects of Concentrated Salt and Resting Protocol on Solid Electrolyte Interface Formation for Improved Cycle Stability of Anode-Free Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31962-31971	9.5	27
60	A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte. <i>Nature Communications</i> , 2019 , 10, 3302	17.4	91
59	Highly active oxygen evolution integrated with efficient CO to CO electroreduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23915-23922	11.5	33

58	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
57	Magnetic Squashing of Circulating Tumor Cells on Plasmonic Substrates for Ultrasensitive NIR Fluorescence Detection. <i>Small Methods</i> , 2019 , 3, 1800474	12.8	44
56	Site Activity and Population Engineering of NiRu-Layered Double Hydroxide Nanosheets Decorated with Silver Nanoparticles for Oxygen Evolution and Reduction Reactions. <i>ACS Catalysis</i> , 2019 , 9, 117-129 ^{13.1}	13.1	69
55	Robust and conductive Magn η Phase Ti4O7 decorated on 3D-nanoflower NiRu-LDH as high-performance oxygen reduction electrocatalyst. <i>Nano Energy</i> , 2018 , 47, 309-315	17.1	34
54	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
53	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
52	3D NIR-II Molecular Imaging Distinguishes Targeted Organs with High-Performance NIR-II Bioconjugates. <i>Advanced Materials</i> , 2018 , 30, e1705799	24	111
51	A bright organic NIR-II nanofluorophore for three-dimensional imaging into biological tissues. <i>Nature Communications</i> , 2018 , 9, 1171	17.4	242
50	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
49	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}	11.5	209
48	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
47	An operando X-ray diffraction study of chloroaluminate anion-graphite intercalation in aluminum batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5670-5675	11.5	74
46	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
45	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
44	Rational Design of Molecular Fluorophores for Biological Imaging in the NIR-II Window. <i>Advanced Materials</i> , 2017 , 29, 1605497	24	251
43	Near-infrared fluorophores for biomedical imaging. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	1255
42	Diagnosis of Zika virus infection on a nanotechnology platform. <i>Nature Medicine</i> , 2017 , 23, 548-550	50.5	92
41	A high quantum yield molecule-protein complex fluorophore for near-infrared II imaging. <i>Nature Communications</i> , 2017 , 8, 15269	17.4	320

40	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
39	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
38	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
37	A novel quantitative microarray antibody capture assay identifies an extremely high hepatitis delta virus prevalence among hepatitis B virus-infected mongolians. <i>Hepatology</i> , 2017 , 66, 1739-1749	11.2	57
36	A small-molecule dye for NIR-II imaging. <i>Nature Materials</i> , 2016 , 15, 235-42	27	939
35	Traumatic Brain Injury Imaging in the Second Near-Infrared Window with a Molecular Fluorophore. <i>Advanced Materials</i> , 2016 , 28, 6872-9	24	240
34	Multiplexed Anti-Toxoplasma IgG, IgM, and IgA Assay on Plasmonic Gold Chips: towards Making Mass Screening Possible with Dye Test Precision. <i>Journal of Clinical Microbiology</i> , 2016 , 54, 1726-1733	9.7	22
33	High Performance, Multiplexed Lung Cancer Biomarker Detection on a Plasmonic Gold Chip. <i>Advanced Functional Materials</i> , 2016 , 26, 7994-8002	15.6	68
32	An ultrafast rechargeable aluminium-ion battery. <i>Nature</i> , 2015 , 520, 325-8	50.4	1522
31	Biological imaging without autofluorescence in the second near-infrared region. <i>Nano Research</i> , 2015 , 8, 3027-3034	10	201
30	Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14758-62	16.4	231
29	A mini review of NiFe-based materials as highly active oxygen evolution reaction electrocatalysts. <i>Nano Research</i> , 2015 , 8, 23-39	10	984
28	Graphene nanoribbons under mechanical strain. <i>Advanced Materials</i> , 2015 , 27, 303-9	24	31
27	Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. <i>Angewandte Chemie</i> , 2015 , 127, 14971-14975	13.8	72
26	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. <i>Chemical Reviews</i> , 2015 , 115, 10816-906	68.1	902
25	Through-skull fluorescence imaging of the brain in a new near-infrared window. <i>Nature Photonics</i> , 2014 , 8, 723-730	33.9	642
24	A plasmonic chip for biomarker discovery and diagnosis of type 1 diabetes. <i>Nature Medicine</i> , 2014 , 20, 948-53	50.5	113
23	Recent advances in zinc-air batteries. <i>Chemical Society Reviews</i> , 2014 , 43, 5257-75	58.5	1484

22	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
21	An advanced Ni-Fe layered double hydroxide electrocatalyst for water oxidation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8452-5	16.4	2084
20	Multifunctional in vivo vascular imaging using near-infrared II fluorescence. <i>Nature Medicine</i> , 2012 , 18, 1841-6	50.5	677
19	Chirality enriched (12,1) and (11,3) single-walled carbon nanotubes for biological imaging. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16971-4	16.4	141
18	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
17	Three-dimensional imaging of single nanotube molecule endocytosis on plasmonic substrates. <i>Nature Communications</i> , 2012 , 3, 700	17.4	72
16	Ag ₂ S 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
15	Graphene nanoribbons with smooth edges behave as quantum wires. <i>Nature Nanotechnology</i> , 2011 , 6, 563-7	28.7	173
14	Graphene nanoribbons from unzipped carbon nanotubes: atomic structures, Raman spectroscopy, and electrical properties. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10394-7	16.4	149
13	Plasmonic substrates for multiplexed protein microarrays with femtomolar sensitivity and broad dynamic range. <i>Nature Communications</i> , 2011 , 2, 466	17.4	196
12	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
11	Etching and narrowing of graphene from the edges. <i>Nature Chemistry</i> , 2010 , 2, 661-5	17.6	384
10	Facile synthesis of high-quality graphene nanoribbons. <i>Nature Nanotechnology</i> , 2010 , 5, 321-5	28.7	671
9	Narrow graphene nanoribbons from carbon nanotubes. <i>Nature</i> , 2009 , 458, 877-80	50.4	2078
8	A route to brightly fluorescent carbon nanotubes for near-infrared imaging in mice. <i>Nature Nanotechnology</i> , 2009 , 4, 773-80	28.7	886
7	Room-temperature all-semiconducting sub-10-nm graphene nanoribbon field-effect transistors. <i>Physical Review Letters</i> , 2008 , 100, 206803	7.4	1209
6	Chemically derived, ultrasmooth graphene nanoribbon semiconductors. <i>Science</i> , 2008 , 319, 1229-32	33.3	4081
5	Circulation and long-term fate of functionalized, biocompatible single-walled carbon nanotubes in mice probed by Raman spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1410-5	11.5	931

4	Nano-Graphene Oxide for Cellular Imaging and Drug Delivery. <i>Nano Research</i> , 2008 , 1, 203-212	10	2765
3	In vivo biodistribution and highly efficient tumour targeting of carbon nanotubes in mice. <i>Nature Nanotechnology</i> , 2007 , 2, 47-52	28.7	1270
2	Highly Reversible Zn Metal Anode Stabilized by Dense and Anion-Derived Passivation Layer Obtained from Concentrated Hybrid Aqueous Electrolyte. <i>Advanced Functional Materials</i> , 2103959	15.6	9
1	Non-Invasive Confocal Fluorescence Imaging of Mice Beyond 1700 nm Using Superconducting Nanowire Single-Photon Detectors		1