

Letian Dou

List of Publications by Citations

Source: <https://exaly.com/author-pdf/675420/letian-dou-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.

85
papers

17,812
citations

43
h-index

95
g-index

95
ext. papers

19,694
ext. citations

16.3
avg, IF

6.77
L-index

#	Paper	IF	Citations
85	A polymer tandem solar cell with 10.6% power conversion efficiency. <i>Nature Communications</i> , 2013 , 4, 1446	17.4	2456
84	Solution-processed hybrid perovskite photodetectors with high detectivity. <i>Nature Communications</i> , 2014 , 5, 5404	17.4	1749
83	Tandem polymer solar cells featuring a spectrally matched low-bandgap polymer. <i>Nature Photonics</i> , 2012 , 6, 180-185	33.9	1299
82	Controllable self-induced passivation of hybrid lead iodide perovskites toward high performance solar cells. <i>Nano Letters</i> , 2014 , 14, 4158-63	11.5	1143
81	25th anniversary article: a decade of organic/polymeric photovoltaic research. <i>Advanced Materials</i> , 2013 , 25, 6642-71	24	978
80	Atomically thin two-dimensional organic-inorganic hybrid perovskites. <i>Science</i> , 2015 , 349, 1518-21	33.3	959
79	Low-Bandgap Near-IR Conjugated Polymers/Molecules for Organic Electronics. <i>Chemical Reviews</i> , 2015 , 115, 12633-65	68.1	863
78	Solution-Phase Synthesis of Cesium Lead Halide Perovskite Nanowires. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9230-3	16.4	727
77	Lasing in robust cesium lead halide perovskite nanowires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1993-8	11.5	551
76	Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. <i>Scientific Reports</i> , 2013 , 3, 3356	4.9	511
75	Systematic investigation of benzodithiophene- and diketopyrrolopyrrole-based low-bandgap polymers designed for single junction and tandem polymer solar cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10071-9	16.4	504
74	High-performance multiple-donor bulk heterojunction solar cells. <i>Nature Photonics</i> , 2015 , 9, 190-198	33.9	440
73	Thermochromic halide perovskite solar cells. <i>Nature Materials</i> , 2018 , 17, 261-267	27	436
72	Visibly transparent polymer solar cells produced by solution processing. <i>ACS Nano</i> , 2012 , 6, 7185-90	16.7	434
71	A selenium-substituted low-bandgap polymer with versatile photovoltaic applications. <i>Advanced Materials</i> , 2013 , 25, 825-31	24	370
70	Metal oxide nanoparticles as an electron-transport layer in high-performance and stable inverted polymer solar cells. <i>Advanced Materials</i> , 2012 , 24, 5267-72	24	299
69	Growth and Anion Exchange Conversion of CH ₃ NH ₃ PbX ₃ Nanorod Arrays for Light-Emitting Diodes. <i>Nano Letters</i> , 2015 , 15, 5519-24	11.5	296

68	Synthesis of 5H-Dithieno[3,2-b:2',3'-d]pyran as an Electron-Rich Building Block for Donor-Acceptor Type Low-Bandgap Polymers. <i>Macromolecules</i> , 2013 , 46, 3384-3390	5.5	273
67	Two-dimensional halide perovskite nanomaterials and heterostructures. <i>Chemical Society Reviews</i> , 2018 , 47, 6046-6072	58.5	244
66	Recent trends in polymer tandem solar cells research. <i>Progress in Polymer Science</i> , 2013 , 38, 1909-1928	29.6	232
65	Bandgap engineering in semiconductor alloy nanomaterials with widely tunable compositions. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	195
64	A dopant-free organic hole transport material for efficient planar heterojunction perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11940-11947	13	182
63	Molecular engineering of organic-inorganic hybrid perovskites quantum wells. <i>Nature Chemistry</i> , 2019 , 11, 1151-1157	17.6	160
62	High-performance semi-transparent polymer solar cells possessing tandem structures. <i>Energy and Environmental Science</i> , 2013 , 6, 2714	35.4	154
61	Synthesis of Ultrathin Copper Nanowires Using Tris(trimethylsilyl)silane for High-Performance and Low-Haze Transparent Conductors. <i>Nano Letters</i> , 2015 , 15, 7610-5	11.5	145
60	Two-dimensional halide perovskite lateral epitaxial heterostructures. <i>Nature</i> , 2020 , 580, 614-620	50.4	142
59	Spatially resolved multicolor CsPbX nanowire heterojunctions via anion exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7216-7221	11.5	134
58	Solution-Processed Copper/Reduced-Graphene-Oxide Core/Shell Nanowire Transparent Conductors. <i>ACS Nano</i> , 2016 , 10, 2600-6	16.7	128
57	Active layer-incorporated, spectrally tuned Au/SiO ₂ core/shell nanorod-based light trapping for organic photovoltaics. <i>ACS Nano</i> , 2013 , 7, 3815-22	16.7	124
56	Intrinsic anion diffusivity in lead halide perovskites is facilitated by a soft lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11929-11934	11.5	108
55	Highly Stable Lead-Free Perovskite Field-Effect Transistors Incorporating Linear π -Conjugated Organic Ligands. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15577-15585	16.4	105
54	Structural, optical, and electrical properties of phase-controlled cesium lead iodide nanowires. <i>Nano Research</i> , 2017 , 10, 1107-1114	10	101
53	Atomic Resolution Imaging of Halide Perovskites. <i>Nano Letters</i> , 2016 , 16, 7530-7535	11.5	97
52	Solution-processed small molecules using different electron linkers for high-performance solar cells. <i>Advanced Materials</i> , 2013 , 25, 4657-62	24	92
51	Long-range exciton transport and slow annihilation in two-dimensional hybrid perovskites. <i>Nature Communications</i> , 2020 , 11, 664	17.4	90

50	Single-crystal linear polymers through visible light-triggered topochemical quantitative polymerization. <i>Science</i> , 2014 , 343, 272-7	33.3	90
49	Ultrathin Epitaxial Cu@Au Core-Shell Nanowires for Stable Transparent Conductors. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7348-7354	16.4	87
48	Side-Chain Tunability via Triple Component Random Copolymerization for Better Photovoltaic Polymers. <i>Advanced Energy Materials</i> , 2014 , 4, 1300864	21.8	76
47	Extrinsic and Dynamic Edge States of Two-Dimensional Lead Halide Perovskites. <i>ACS Nano</i> , 2019 , 13, 1635-1644	16.7	62
46	Room-Temperature Coherent Optical Phonon in 2D Electronic Spectra of CHNHPbI Perovskite as a Possible Cooling Bottleneck. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3211-3215	6.4	59
45	Emerging two-dimensional halide perovskite nanomaterials. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11165-11173	7.1	53
44	A Selenophene Containing Benzodithiophene-alt-thienothiophene Polymer for Additive-Free High Performance Solar Cell. <i>Macromolecules</i> , 2015 , 48, 562-568	5.5	52
43	Elucidating double aggregation mechanisms in the morphology optimization of diketopyrrolopyrrole-based narrow bandgap polymer solar cells. <i>Advanced Materials</i> , 2014 , 26, 3142-7	24	47
42	Improving Structural Order for a High-Performance Diketopyrrolopyrrole-Based Polymer Solar Cell with a Thick Active Layer. <i>Advanced Energy Materials</i> , 2014 , 4, 1300739	21.8	39
41	Electrical and Optical Tunability in All-Inorganic Halide Perovskite Alloy Nanowires. <i>Nano Letters</i> , 2018 , 18, 3538-3542	11.5	38
40	Benzoin Radicals as Reducing Agent for Synthesizing Ultrathin Copper Nanowires. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3027-3032	16.4	36
39	Layer-by-layer anionic diffusion in two-dimensional halide perovskite vertical heterostructures. <i>Nature Nanotechnology</i> , 2021 , 16, 584-591	28.7	36
38	Multifunctional Conjugated Ligand Engineering for Stable and Efficient Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2100791	24	35
37	High performance low band gap polymer solar cells with a non-conventional acceptor. <i>Chemical Communications</i> , 2012 , 48, 7616-8	5.8	31
36	Novel fullerene acceptors: synthesis and application in low band gap polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13391		30
35	Lead-Free Organic-Perovskite Hybrid Quantum Wells for Highly Stable Light-Emitting Diodes. <i>ACS Nano</i> , 2021 , 15, 6316-6325	16.7	28
34	Synthesis and characterization of a novel kind of near-infrared electrochromic polymers containing an anthraquinone imide group and ionic moieties. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8470		27
33	Additive manufacturing of patterned 2D semiconductor through recyclable masked growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3437-3442	11.5	25

32	Two-dimensional halide perovskites featuring semiconducting organic building blocks. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3400-3418	7.8	25
31	Highly Efficient Halide Perovskite Light-Emitting Diodes via Molecular Passivation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8337-8343	16.4	21
30	Lead halide perovskite nanowires stabilized by block copolymers for Langmuir-Blodgett assembly. <i>Nano Research</i> , 2020 , 13, 1453-1458	10	16
29	Long-lived charge separation in two-dimensional ligand-perovskite heterostructures. <i>Journal of Chemical Physics</i> , 2020 , 152, 044711	3.9	16
28	Ligand-Driven Grain Engineering of High Mobility Two-Dimensional Perovskite Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15215-15223	16.4	14
27	Near-infrared Materials: The Turning Point of Organic Photovoltaics. <i>Advanced Materials</i> , 2021 , e21073304	10.4	13
26	Mechanically robust and self-healable perovskite solar cells. <i>Cell Reports Physical Science</i> , 2021 , 2, 100326.1	12.1	12
25	Quantifying Anionic Diffusion in 2D Halide Perovskite Lateral Heterostructures. <i>Advanced Materials</i> , 2021 , 33, 2105183	11.83	10
24	A Leap towards High-Performance 2D Perovskite Photodetectors. <i>Trends in Chemistry</i> , 2019 , 1, 365-367	14.8	9
23	Designing artificial two-dimensional landscapes via atomic-layer substitution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
22	Large-Scale Plasmonic Hybrid Framework with Built-In Nanohole Array as Multifunctional Optical Sensing Platforms. <i>Small</i> , 2020 , 16, e1906459	11	8
21	Electronic and Spintronic Open-Shell Macromolecules, ?. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	8
20	Halide Perovskite Epitaxial Heterostructures. <i>Accounts of Materials Research</i> , 2020 , 1, 213-224	7.5	8
19	Two-dimensional halide perovskite quantum-well emitters: A critical review. <i>EcoMat</i> , 2021 , 3, e12104	9.4	8
18	Thermoelectric Performance of Lead-Free Two-Dimensional Halide Perovskites Featuring Conjugated Ligands. <i>Nano Letters</i> , 2021 , 21, 7839-7844	11.5	8
17	Synthesis of 5H-Dithieno[3,2-b:2',3'-d]pyran as an Electron-Rich Building Block for Donor-Acceptor Type Low-Bandgap Polymers. <i>Macromolecules</i> , 2013 , 46, 4734-4734	5.5	7
16	Tandem Solar Cells: Concept and Practice in Organic Solar Cells. <i>Topics in Applied Physics</i> , 2015 , 315-346	0.5	6
15	Plastic solar cells: breaking the 10% commercialization barrier 2012 ,		5

14	Organic Cation Engineering for Vertical Charge Transport in Lead-Free Perovskite Quantum Wells. <i>Small Science</i> , 2021 , 1, 2000024		5
13	Field-assisted growth of one-dimensional ZnO nanostructures with high defect density. <i>Nanotechnology</i> , 2021 , 32, 095603	3.4	3
12	Organic semiconductor-incorporated two-dimensional halide perovskites.. <i>National Science Review</i> , 2022 , 9, nwab111	10.8	3
11	Tailoring Anchoring Groups in Low-Dimensional Organic Semiconductor-Incorporated Perovskites. <i>Small Structures</i> , 2100173	8.7	2
10	Structural Damage of Two-Dimensional Organic-Inorganic Halide Perovskites. <i>Inorganics</i> , 2020 , 8, 13	2.9	2
9	Highly Efficient Halide Perovskite Light-Emitting Diodes via Molecular Passivation. <i>Angewandte Chemie</i> , 2021 , 133, 8418-8424	3.6	2
8	Formation of liquid phase and nanostructures in flash sintered ZnO. <i>Scripta Materialia</i> , 2021 , 195, 113719	3.6	2
7	A selenophene-containing conjugated organic ligand for two-dimensional halide perovskites. <i>Chemical Communications</i> , 2021 , 57, 11469-11472	5.8	1
6	Structural Tunability and Diversity of Two-Dimensional Lead Halide Benzenethiolate. <i>Chemistry - A European Journal</i> , 2020 , 26, 6599-6607	4.8	1
5	Anion diffusion in two-dimensional halide perovskites. <i>APL Materials</i> , 2022 , 10, 040903	5.7	1
4	4D-STEM Characterization of Molecular Ordering in Organic Semiconductors. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1752-1753	0.5	
3	Understanding phase transition dynamics paves the way to halide perovskites nanoelectronics. <i>MRS Bulletin</i> , 1-2	3.2	
2	Understanding phase transition dynamics paves the way to halide perovskites nanoelectronics. <i>MRS Bulletin</i> , 2021 , 46, 317-318	3.2	
1	Halide Perovskites for Photonics and Optoelectronics: introduction to special issue. <i>Optical Materials Express</i> , 2022 , 12, 1764	2.6	