

M Ibrahim Dar

List of Publications by Citations

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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.

81
papers

9,670
citations

41
h-index

83
g-index

83
ext. papers

11,037
ext. citations

12.7
avg, IF

6.39
L-index

#	Paper	IF	Citations
81	Efficient luminescent solar cells based on tailored mixed-cation perovskites. <i>Science Advances</i> , 2016 , 2, e1501170	14.3	1498
80	Perovskite solar cells with CuSCN hole extraction layers yield stabilized efficiencies greater than 20. <i>Science</i> , 2017 , 358, 768-771	33.3	1030
79	Improved performance and stability of perovskite solar cells by crystal crosslinking with alkylphosphonic acid ammonium chlorides. <i>Nature Chemistry</i> , 2015 , 7, 703-11	17.6	898
78	Thermodynamically stabilized CsPbI ₃ -based perovskite solar cells with efficiencies >18. <i>Science</i> , 2019 , 365, 591-595	33.3	644
77	Bication lead iodide 2D perovskite component to stabilize inorganic CsPbI ₃ perovskite phase for high-efficiency solar cells. <i>Science Advances</i> , 2017 , 3, e1700841	14.3	450
76	Ultrahydrophobic 3D/2D fluoroarene bilayer-based water-resistant perovskite solar cells with efficiencies exceeding 22. <i>Science Advances</i> , 2019 , 5, eaaw2543	14.3	362
75	Flexible high efficiency perovskite solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 994	35.4	357
74	Triazatruxene-Based Hole Transporting Materials for Highly Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 16172-8	16.4	268
73	Origin of unusual bandgap shift and dual emission in organic-inorganic lead halide perovskites. <i>Science Advances</i> , 2016 , 2, e1601156	14.3	238
72	Perovskite solar cells with 12.8% efficiency by using conjugated quinolizino acridine based hole transporting material. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8516-9	16.4	228
71	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1907757	24	178
70	Investigation regarding the role of chloride in organic-inorganic halide perovskites obtained from chloride containing precursors. <i>Nano Letters</i> , 2014 , 14, 6991-6	11.5	176
69	Impact of Monovalent Cation Halide Additives on the Structural and Optoelectronic Properties of CH ₃ NH ₃ PbI ₃ Perovskite. <i>Advanced Energy Materials</i> , 2016 , 6, 1502472	21.8	171
68	Light Harvesting and Charge Recombination in CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells Studied by Hole Transport Layer Thickness Variation. <i>ACS Nano</i> , 2015 , 9, 4200-9	16.7	167
67	New Strategies for Defect Passivation in High-Efficiency Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903090	21.8	152
66	Yttrium-substituted nanocrystalline TiO ₂ photoanodes for perovskite based heterojunction solar cells. <i>Nanoscale</i> , 2014 , 6, 1508-14	7.7	151
65	Bifunctional Organic Spacers for Formamidinium-Based Hybrid Dion-Jacobson Two-Dimensional Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 150-157	11.5	140

64	Single crystalline magnetite, maghemite, and hematite nanoparticles with rich coercivity. <i>RSC Advances</i> , 2014 , 4, 4105-4113	3.7	132
63	Stabilization of Highly Efficient and Stable Phase-Pure FAPbI Perovskite Solar Cells by Molecularly Tailored 2D-Overlayers. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15688-15694	16.4	115
62	Air Processed Inkjet Infiltrated Carbon Based Printed Perovskite Solar Cells with High Stability and Reproducibility. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600183	6.8	109
61	The Role of Rubidium in Multiple-Cation-Based High-Efficiency Perovskite Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1701077	24	102
60	Strong Photocurrent Amplification in Perovskite Solar Cells with a Porous TiO ₂ Blocking Layer under Reverse Bias. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3931-6	6.4	96
59	High Open-Circuit Voltage: Fabrication of Formamidinium Lead Bromide Perovskite Solar Cells Using FluoreneDithiophene Derivatives as Hole-Transporting Materials. <i>ACS Energy Letters</i> , 2016 , 1, 107-112	20.1	92
58	Intrinsic and Extrinsic Stability of Formamidinium Lead Bromide Perovskite Solar Cells Yielding High Photovoltage. <i>Nano Letters</i> , 2016 , 16, 7155-7162	11.5	87
57	Charge extraction via graded doping of hole transport layers gives highly luminescent and stable metal halide perovskite devices. <i>Science Advances</i> , 2019 , 5, eaav2012	14.3	85
56	A Novel Oligomer as a Hole Transporting Material for Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1400980	21.8	77
55	Recent progress in morphology optimization in perovskite solar cell. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21356-21386	13	76
54	Impact of a Mesoporous Titania-Perovskite Interface on the Performance of Hybrid Organic-Inorganic Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3264-9	6.4	75
53	High performance carbon-based printed perovskite solar cells with humidity assisted thermal treatment. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12060-12067	13	74
52	Dedoping of Lead Halide Perovskites Incorporating Monovalent Cations. <i>ACS Nano</i> , 2018 , 12, 7301-7311	16.7	73
51	Supramolecular Engineering for Formamidinium-Based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solid-State NMR Spectroscopy. <i>Advanced Energy Materials</i> , 2019 , 9, 1900284	21.8	71
50	Understanding the Impact of Bromide on the Photovoltaic Performance of CH ₃ NH ₃ PbI ₃ Solar Cells. <i>Advanced Materials</i> , 2015 , 27, 7221-8	24	70
49	Controlled synthesis of TiO ₂ nanoparticles and nanospheres using a microwave assisted approach for their application in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1662-1667	13	69
48	Stable and Efficient Perovskite Solar Cells Based on Titania Nanotube Arrays. <i>Small</i> , 2015 , 11, 5533-9	11	69
47	Photovoltaic and Amplified Spontaneous Emission Studies of High-Quality Formamidinium Lead Bromide Perovskite Films. <i>Advanced Functional Materials</i> , 2016 , 26, 2846-2854	15.6	57

46	Hydrothermally processed CuCrO ₂ nanoparticles as an inorganic hole transporting material for low-cost perovskite solar cells with superior stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20327-20337	13	55
45	Low-Cost and Highly Efficient Carbon-Based Perovskite Solar Cells Exhibiting Excellent Long-Term Operational and UV Stability. <i>Small</i> , 2019 , 15, e1904746	11	53
44	Microwave-assisted, surfactant-free synthesis of air-stable copper nanostructures and their SERS study. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22418		53
43	Dual effect of humidity on cesium lead bromide: enhancement and degradation of perovskite films. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12292-12302	13	46
42	Influence of the Nature of A Cation on Dynamics of Charge Transfer Processes in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1706073	15.6	46
41	Electron-Affinity-Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14125-14128	16.4	42
40	Quantum-confined ZnO nanoshell photoanodes for mesoscopic solar cells. <i>Nano Letters</i> , 2014 , 14, 1190-1195	11.5	40
39	Photoanode Based on (001)-Oriented Anatase Nanoplatelets for Organic-Inorganic Lead Iodide Perovskite Solar Cell. <i>Chemistry of Materials</i> , 2014 , 26, 4675-4678	9.6	38
38	Growth Engineering of CH ₃ NH ₃ PbI ₃ Structures for High-Efficiency Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1501358	21.8	35
37	Unraveling the Impact of Rubidium Incorporation on the Transport-Recombination Mechanisms in Highly Efficient Perovskite Solar Cells by Small-Perturbation Techniques. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24903-24908	3.8	34
36	Formamidinium-Based Dion-Jacobson Layered Hybrid Perovskites: Structural Complexity and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 2003428	15.6	34
35	Reduced Graphene Oxide as a Stabilizing Agent in Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800416	4.6	33
34	Hill climbing hysteresis of perovskite-based solar cells: a maximum power point tracking investigation. <i>Progress in Photovoltaics: Research and Applications</i> , 2017 , 25, 942-950	6.8	28
33	Ruddlesden-Popper Phases of Methylammonium-Based Two-Dimensional Perovskites with 5-Ammonium Valeric Acid AVAMA Pb I with n = 1, 2, and 3. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3543-3549	6.4	28
32	Donor-Acceptor-Type S,N-Heteroacene-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44423-44428	9.5	27
31	An open-access database and analysis tool for perovskite solar cells based on the FAIR data principles. <i>Nature Energy</i> , 2022 , 7, 107-115	62.3	26
30	Asymmetric Cathodoluminescence Emission in CH ₃ NH ₃ PbI _{3-x} Br _x Perovskite Single Crystals. <i>ACS Photonics</i> , 2016 , 3, 947-952	6.3	25
29	Atomistic Mechanism of the Nucleation of Methylammonium Lead Iodide Perovskite from Solution. <i>Chemistry of Materials</i> , 2020 , 32, 529-536	9.6	24

28	Advances in Lead-Free Perovskite Single Crystals: Fundamentals and Applications 2021 , 3, 1025-1080		24
27	Weakly Conjugated Hybrid Zinc Porphyrin Sensitizers for Solid-State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 5550-5559	15.6	23
26	High photovoltage in perovskite solar cells: New physical insights from the ultrafast transient absorption spectroscopy. <i>Chemical Physics Letters</i> , 2017 , 683, 211-215	2.5	22
25	Function Follows Form: Correlation between the Growth and Local Emission of Perovskite Structures and the Performance of Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1701433	15.6	22
24	Perovskite solar cells: Crystal crosslinking. <i>Nature Chemistry</i> , 2015 , 7, 684-5	17.6	22
23	Minimizing the Trade-Off between Photocurrent and Photovoltage in Triple-Cation Mixed-Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 10188-10195	6.4	20
22	Insights about the Absence of Rb Cation from the 3D Perovskite Lattice: Effect on the Structural, Morphological, and Photophysical Properties and Photovoltaic Performance. <i>Small</i> , 2018 , 14, e1802033	11	19
21	Electron-Affinity-Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2018 , 130, 14321-14324	3.6	17
20	Role of spectator ions in influencing the properties of dopant-free ZnO nanocrystals. <i>New Journal of Chemistry</i> , 2014 , 38, 4783-4790	3.6	17
19	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. <i>Research</i> , 2019 , 2019, 8474698	7.8	17
18	A combined molecular dynamics and experimental study of two-step process enabling low-temperature formation of phase-pure FAPbI_3 . <i>Science Advances</i> , 2021 , 7,	14.3	17
17	Kinetics of Ion-Exchange Reactions in Hybrid Organic-Inorganic Perovskite Thin Films Studied by In Situ Real-Time X-ray Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6750-6754	6.4	16
16	Electrochemical Characterization of CuSCN Hole-Extracting Thin Films for Perovskite Photovoltaics. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4264-4273	6.1	15
15	Cyclopentadithiophene-Based Hole-Transporting Material for Highly Stable Perovskite Solar Cells with Stabilized Efficiencies Approaching 21%. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7456-7463	6.1	14
14	Exploiting oriented attachment in stabilizing La ³⁺ -doped gallium oxide nano-spindles. <i>RSC Advances</i> , 2014 , 4, 49360-49366	3.7	12
13	Monovalent Cation Doping of CH ₃ NH ₃ PbI ₃ for Efficient Perovskite Solar Cells. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	12
12	Stabilization of Highly Efficient and Stable Phase-Pure FAPbI ₃ Perovskite Solar Cells by Molecularly Tailored 2D-Overlayers. <i>Angewandte Chemie</i> , 2020 , 132, 15818-15824	3.6	11
11	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. <i>Research</i> , 2019 , 2019, 1-9	7.8	10

10	Halide Versus Nonhalide Salts: The Effects of Guanidinium Salts on the Structural, Morphological, and Photovoltaic Performances of Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900234	7.1	10
9	Role of Morphology and Förster Resonance Energy Transfer in Ternary Blend Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12025-12036	6.1	8
8	Tailoring of growth and properties: a benign approach to synthesise ZnO nanostructures without growth-directing agents. <i>Materials Research Express</i> , 2014 , 1, 015025	1.7	7
7	Unravelling the structural complexity and photophysical properties of adamantyl-based layered hybrid perovskites. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17732-17740	13	7
6	Molecular Origin of the Asymmetric Photoluminescence Spectra of CsPbBr at Low Temperature. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2699-2704	6.4	7
5	High Open Circuit Voltage for Perovskite Solar Cells with S,Si-Heteropentacene-Based Hole Conductors. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 4573-4578	2.3	6
4	Optical absorption and photoluminescence spectroscopy 2020 , 49-79		5
3	Quantifying Stabilized Phase Purity in Formamidinium-Based Multiple-Cation Hybrid Perovskites. <i>Chemistry of Materials</i> , 2021 , 33, 2769-2776	9.6	4
2	A Fully Printable Hole-Transporter-Free Semi-Transparent Perovskite Solar Cell. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 3752-3760	2.3	1
1	Impact of Monovalent Metal Halides on the Structural and Photophysical Properties of Halide Perovskite 2021 , 369-388		