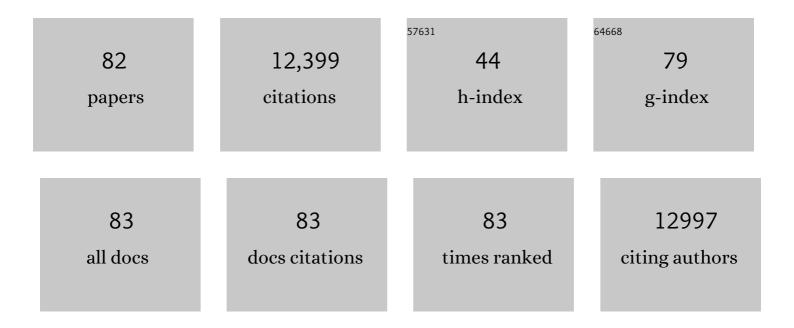
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2150259/publications.pdf Version: 2024-02-01



M IRDAHIM DAD

#	Article	IF	CITATIONS
1	An open-access database and analysis tool for perovskite solar cells based on the FAIR data principles. Nature Energy, 2022, 7, 107-115.	19.8	136
2	Kinetics and energeticsÂof metal halide perovskite conversion reactions at the nanoscale. Communications Materials, 2022, 3, .	2.9	12
3	Molecular Origin of the Asymmetric Photoluminescence Spectra of CsPbBr ₃ at Low Temperature. Journal of Physical Chemistry Letters, 2021, 12, 2699-2704.	2.1	12
4	A combined molecular dynamics and experimental study of two-step process enabling low-temperature formation of phase-pure α-FAPbI ₃ . Science Advances, 2021, 7, .	4.7	49
5	Quantifying Stabilized Phase Purity in Formamidinium-Based Multiple-Cation Hybrid Perovskites. Chemistry of Materials, 2021, 33, 2769-2776.	3.2	13
6	Advances in Lead-Free Perovskite Single Crystals: Fundamentals and Applications. , 2021, 3, 1025-1080.		70
7	A Fully Printable Holeâ€Transporterâ€Free Semiâ€Transparent Perovskite Solar Cell. European Journal of Inorganic Chemistry, 2021, 2021, 3752-3760.	1.0	6
8	Halide Versus Nonhalide Salts: The Effects of Guanidinium Salts on the Structural, Morphological, and Photovoltaic Performances of Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900234.	3.1	19
9	Atomistic Mechanism of the Nucleation of Methylammonium Lead Iodide Perovskite from Solution. Chemistry of Materials, 2020, 32, 529-536.	3.2	45
10	New Strategies for Defect Passivation in Highâ€Efficiency Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1903090.	10.2	237
11	Optical absorption and photoluminescence spectroscopy. , 2020, , 49-79.		9
12	Formamidiniumâ€Based Dionâ€Jacobson Layered Hybrid Perovskites: Structural Complexity and Optoelectronic Properties. Advanced Functional Materials, 2020, 30, 2003428.	7.8	61
13	Minimizing the Trade-Off between Photocurrent and Photovoltage in Triple-Cation Mixed-Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 10188-10195.	2.1	36
14	Unravelling the structural complexity and photophysical properties of adamantyl-based layered hybrid perovskites. Journal of Materials Chemistry A, 2020, 8, 17732-17740.	5.2	14
15	Role of Morphology and Förster Resonance Energy Transfer in Ternary Blend Organic Solar Cells. ACS Applied Energy Materials, 2020, 3, 12025-12036.	2.5	17
16	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI ₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie - International Edition, 2020, 59, 15688-15694.	7.2	201
17	Stabilization of Highly Efficient and Stable Phaseâ€Pure FAPbI ₃ Perovskite Solar Cells by Molecularly Tailored 2Dâ€Overlayers. Angewandte Chemie, 2020, 132, 15818-15824.	1.6	17
18	Cyclopentadithiophene-Based Hole-Transporting Material for Highly Stable Perovskite Solar Cells with Stabilized Efficiencies Approaching 21%. ACS Applied Energy Materials, 2020, 3, 7456-7463.	2.5	26

#	Article	IF	CITATIONS
19	Recent progress in morphology optimization in perovskite solar cell. Journal of Materials Chemistry A, 2020, 8, 21356-21386.	5.2	159
20	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. Advanced Materials, 2020, 32, e1907757.	11.1	303
21	Thermodynamically stabilized β-CsPbI ₃ –based perovskite solar cells with efficiencies >18%. Science, 2019, 365, 591-595.	6.0	963
22	Low ost and Highly Efficient Carbonâ€Based Perovskite Solar Cells Exhibiting Excellent Longâ€Term Operational and UV Stability. Small, 2019, 15, e1904746.	5.2	83
23	Electrochemical Characterization of CuSCN Hole-Extracting Thin Films for Perovskite Photovoltaics. ACS Applied Energy Materials, 2019, 2, 4264-4273.	2.5	20
24	Ultrahydrophobic 3D/2D fluoroarene bilayer-based water-resistant perovskite solar cells with efficiencies exceeding 22%. Science Advances, 2019, 5, eaaw2543.	4.7	524
25	Ruddlesden–Popper Phases of Methylammonium-Based Two-Dimensional Perovskites with 5-Ammonium Valeric Acid AVA ₂ MA _{<i>n</i>§€"1} Pb _{<i>n</i>} I _{3<i>n</i>+1} with <i>n</i> = 1, 2, and 3. Journal of Physical Chemistry Letters, 2019, 10, 3543-3549.	2.1	35
26	Dual effect of humidity on cesium lead bromide: enhancement and degradation of perovskite films. Journal of Materials Chemistry A, 2019, 7, 12292-12302.	5.2	74
27	Supramolecular Engineering for Formamidiniumâ€Based Layered 2D Perovskite Solar Cells: Structural Complexity and Dynamics Revealed by Solidâ€State NMR Spectroscopy. Advanced Energy Materials, 2019, 9, 1900284.	10.2	89
28	Charge extraction via graded doping of hole transport layers gives highly luminescent and stable metal halide perovskite devices. Science Advances, 2019, 5, eaav2012.	4.7	116
29	Bifunctional Organic Spacers for Formamidinium-Based Hybrid Dion–Jacobson Two-Dimensional Perovskite Solar Cells. Nano Letters, 2019, 19, 150-157.	4.5	218
30	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. Research, 2019, 2019, 1-9.	2.8	15
31	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. Research, 2019, 2019, 8474698.	2.8	22
32	Influence of the Nature of A Cation on Dynamics of Charge Transfer Processes in Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1706073.	7.8	58
33	Hydrothermally processed CuCrO ₂ nanoparticles as an inorganic hole transporting material for low-cost perovskite solar cells with superior stability. Journal of Materials Chemistry A, 2018, 6, 20327-20337.	5.2	85
34	Kinetics of Ion-Exchange Reactions in Hybrid Organic–Inorganic Perovskite Thin Films Studied by In Situ Real-Time X-ray Scattering. Journal of Physical Chemistry Letters, 2018, 9, 6750-6754.	2.1	28
35	High Open Circuit Voltage for Perovskite Solar Cells with S,Siâ€Heteropentaceneâ€Based Hole Conductors. European Journal of Inorganic Chemistry, 2018, 2018, 4573-4578.	1.0	10
36	Dedoping of Lead Halide Perovskites Incorporating Monovalent Cations. ACS Nano, 2018, 12, 7301-7311.	7.3	101

#	Article	IF	CITATIONS
37	Reduced Graphene Oxide as a Stabilizing Agent in Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1800416.	1.9	45
38	Electronâ€Affinityâ€Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dyeâ€Sensitized Solar Cells. Angewandte Chemie, 2018, 130, 14321-14324.	1.6	26
39	Insights about the Absence of Rb Cation from the 3D Perovskite Lattice: Effect on the Structural, Morphological, and Photophysical Properties and Photovoltaic Performance. Small, 2018, 14, e1802033.	5.2	24
40	Electronâ€Affinityâ€Triggered Variations on the Optical and Electrical Properties of Dye Molecules Enabling Highly Efficient Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2018, 57, 14125-14128.	7.2	56
41	High photovoltage in perovskite solar cells: New physical insights from the ultrafast transient absorption spectroscopy. Chemical Physics Letters, 2017, 683, 211-215.	1.2	31
42	Function Follows Form: Correlation between the Growth and Local Emission of Perovskite Structures and the Performance of Solar Cells. Advanced Functional Materials, 2017, 27, 1701433.	7.8	26
43	Hill climbing hysteresis of perovskiteâ€based solar cells: a maximum power point tracking investigation. Progress in Photovoltaics: Research and Applications, 2017, 25, 942-950.	4.4	40
44	High performance carbon-based printed perovskite solar cells with humidity assisted thermal treatment. Journal of Materials Chemistry A, 2017, 5, 12060-12067.	5.2	90
45	Bication lead iodide 2D perovskite component to stabilize inorganic α-CsPbI ₃ perovskite phase for high-efficiency solar cells. Science Advances, 2017, 3, e1700841.	4.7	557
46	Perovskite solar cells with CuSCN hole extraction layers yield stabilized efficiencies greater than 20%. Science, 2017, 358, 768-771.	6.0	1,285
47	Unraveling the Impact of Rubidium Incorporation on the Transport-Recombination Mechanisms in Highly Efficient Perovskite Solar Cells by Small-Perturbation Techniques. Journal of Physical Chemistry C, 2017, 121, 24903-24908.	1.5	42
48	The Role of Rubidium in Multiple ationâ€Based Highâ€Efficiency Perovskite Solar Cells. Advanced Materials, 2017, 29, 1701077.	11.1	120
49	Monovalent Cation Doping of CH ₃ NH ₃ PbI ₃ for Efficient Perovskite Solar Cells. Journal of Visualized Experiments, 2017, , .	0.2	20
50	Donor–Acceptor-Type <i>S</i> , <i>N</i> -Heteroacene-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 44423-44428.	4.0	31
51	Air Processed Inkjet Infiltrated Carbon Based Printed Perovskite Solar Cells with High Stability and Reproducibility. Advanced Materials Technologies, 2017, 2, 1600183.	3.0	137
52	Weakly Conjugated Hybrid Zinc Porphyrin Sensitizers for Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2016, 26, 5550-5559.	7.8	31
53	Impact of Monovalent Cation Halide Additives on the Structural and Optoelectronic Properties of CH ₃ NH ₃ PbI ₃ Perovskite. Advanced Energy Materials, 2016, 6, 1502472.	10.2	196
54	High Open-Circuit Voltage: Fabrication of Formamidinium Lead Bromide Perovskite Solar Cells Using Fluorene–Dithiophene Derivatives as Hole-Transporting Materials. ACS Energy Letters, 2016, 1, 107-112.	8.8	105

#	Article	IF	CITATIONS
55	Impact of a Mesoporous Titania–Perovskite Interface on the Performance of Hybrid Organic–Inorganic Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 3264-3269.	2.1	85
56	Intrinsic and Extrinsic Stability of Formamidinium Lead Bromide Perovskite Solar Cells Yielding High Photovoltage. Nano Letters, 2016, 16, 7155-7162.	4.5	104
57	Origin of unusual bandgap shift and dual emission in organic-inorganic lead halide perovskites. Science Advances, 2016, 2, e1601156.	4.7	307
58	Photovoltaic and Amplified Spontaneous Emission Studies of Highâ€Quality Formamidinium Lead Bromide Perovskite Films. Advanced Functional Materials, 2016, 26, 2846-2854.	7.8	66
59	Growth Engineering of CH ₃ NH ₃ PbI ₃ Structures for Highâ€Efficiency Solar Cells. Advanced Energy Materials, 2016, 6, 1501358.	10.2	36
60	Asymmetric Cathodoluminescence Emission in CH ₃ NH ₃ PbI _{3–<i>x</i>} Br _{<i>x</i>} Perovskite Single Crystals. ACS Photonics, 2016, 3, 947-952.	3.2	30
61	Efficient luminescent solar cells based on tailored mixed-cation perovskites. Science Advances, 2016, 2, e1501170.	4.7	1,669
62	Stable and Efficient Perovskite Solar Cells Based on Titania Nanotube Arrays. Small, 2015, 11, 5533-5539.	5.2	80
63	Understanding the Impact of Bromide on the Photovoltaic Performance of CH ₃ NH ₃ PbI ₃ Solar Cells. Advanced Materials, 2015, 27, 7221-7228.	11.1	73
64	Light Harvesting and Charge Recombination in CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells Studied by Hole Transport Layer Thickness Variation. ACS Nano, 2015, 9, 4200-4209.	7.3	205
65	Crystal crosslinking. Nature Chemistry, 2015, 7, 684-685.	6.6	23
66	Improved performance and stability of perovskite solar cells by crystal crosslinking with alkylphosphonic acid ï‰-ammonium chlorides. Nature Chemistry, 2015, 7, 703-711.	6.6	1,033
67	Triazatruxene-Based Hole Transporting Materials for Highly Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 16172-16178.	6.6	321
68	A Novel Oligomer as a Hole Transporting Material for Efficient Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1400980.	10.2	80
69	Tailoring of growth and properties: a benign approach to synthesise ZnO nanostructures without growth-directing agents. Materials Research Express, 2014, 1, 015025.	0.8	8
70	Single crystalline magnetite, maghemite, and hematite nanoparticles with rich coercivity. RSC Advances, 2014, 4, 4105-4113.	1.7	173
71	Quantum-Confined ZnO Nanoshell Photoanodes for Mesoscopic Solar Cells. Nano Letters, 2014, 14, 1190-1195.	4.5	42
72	Controlled synthesis of TiO ₂ nanoparticles and nanospheres using a microwave assisted approach for their application in dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 1662-1667.	5.2	80

#	Article	IF	CITATIONS
73	Flexible high efficiency perovskite solar cells. Energy and Environmental Science, 2014, 7, 994.	15.6	409
74	Yttrium-substituted nanocrystalline TiO ₂ photoanodes for perovskite based heterojunction solar cells. Nanoscale, 2014, 6, 1508-1514.	2.8	162
75	Investigation Regarding the Role of Chloride in Organic–Inorganic Halide Perovskites Obtained from Chloride Containing Precursors. Nano Letters, 2014, 14, 6991-6996.	4.5	185
76	Strong Photocurrent Amplification in Perovskite Solar Cells with a Porous TiO ₂ Blocking Layer under Reverse Bias. Journal of Physical Chemistry Letters, 2014, 5, 3931-3936.	2.1	104
77	Exploiting oriented attachment in stabilizing La ³⁺ -doped gallium oxide nano-spindles. RSC Advances, 2014, 4, 49360-49366.	1.7	15
78	Role of spectator ions in influencing the properties of dopant-free ZnO nanocrystals. New Journal of Chemistry, 2014, 38, 4783-4790.	1.4	21
79	Photoanode Based on (001)-Oriented Anatase Nanoplatelets for Organic–Inorganic Lead Iodide Perovskite Solar Cell. Chemistry of Materials, 2014, 26, 4675-4678.	3.2	39
80	Perovskite Solar Cells with 12.8% Efficiency by Using Conjugated Quinolizino Acridine Based Hole Transporting Material. Journal of the American Chemical Society, 2014, 136, 8516-8519.	6.6	243
81	Microwave-assisted, surfactant-free synthesis of air-stable copper nanostructures and their SERS study. Journal of Materials Chemistry, 2012, 22, 22418.	6.7	61
82	Extraordinary Stability of Perovskite Solar Cells Yielding Photovoltage above 1.5V. , 0, , .		0