

Rahim Munir

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5281355/rahim-munir-publications-by-citations.pdf>

Version: 2024-04-28

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.

40
papers

3,651
citations

26
h-index

49
g-index

49
ext. papers

4,286
ext. citations

15.7
avg, IF

5.28
L-index

#	Paper	IF	Citations
40	Stable High-Performance Perovskite Solar Cells via Grain Boundary Passivation. <i>Advanced Materials</i> , 2018 , 30, e1706576	24	505
39	Stable high efficiency two-dimensional perovskite solar cells via cesium doping. <i>Energy and Environmental Science</i> , 2017 , 10, 2095-2102	35.4	496
38	Hybrid organic-inorganic inks flatten the energy landscape in colloidal quantum dot solids. <i>Nature Materials</i> , 2017 , 16, 258-263	27	432
37	Compositional and orientational control in metal halide perovskites of reduced dimensionality. <i>Nature Materials</i> , 2018 , 17, 900-907	27	252
36	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. <i>Nature Nanotechnology</i> , 2018 , 13, 456-462	28.7	196
35	Phase Transition Control for High Performance Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1707166	24	192
34	Lattice anchoring stabilizes solution-processed semiconductors. <i>Nature</i> , 2019 , 570, 96-101	50.4	149
33	Multi-inch single-crystalline perovskite membrane for high-detectivity flexible photosensors. <i>Nature Communications</i> , 2018 , 9, 5302	17.4	136
32	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. <i>ACS Energy Letters</i> , 2018 , 3, 1078-1085	20.1	132
31	Phase Transition Control for High-Performance Blade-Coated Perovskite Solar Cells. <i>Joule</i> , 2018 , 2, 1313-1330	21.3	125
30	Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases. <i>Advanced Materials</i> , 2017 , 29, 1604113	24	120
29	Enhanced Electrical Conductivity of Molecularly p-Doped Poly(3-hexylthiophene) through Understanding the Correlation with Solid-State Order. <i>Macromolecules</i> , 2017 , 50, 8140-8148	5.5	107
28	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. <i>Nature Photonics</i> , 2020 , 14, 227-233	33.9	91
27	Organic Gelators as Growth Control Agents for Stable and Reproducible Hybrid Perovskite-Based Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602600	21.8	65
26	Kinetic Stabilization of the Sol-Gel State in Perovskites Enables Facile Processing of High-Efficiency Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1808357	24	57
25	Effects of High Temperature and Thermal Cycling on the Performance of Perovskite Solar Cells: Acceleration of Charge Recombination and Deterioration of Charge Extraction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35018-35029	9.5	52
24	20.8% Slot-Die Coated MAPbI ₃ Perovskite Solar Cells by Optimal DMSO-Content and Age of 2-ME Based Precursor Inks. <i>Advanced Energy Materials</i> , 2021 , 11, 2003460	21.8	52

23	Conducting and Stretchable PEDOT:PSS Electrodes: Role of Additives on Self-Assembly, Morphology, and Transport. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17570-17582	9.5	41
22	Improved Morphology and Efficiency of n-i-p Planar Perovskite Solar Cells by Processing with Glycol Ether Additives. <i>ACS Energy Letters</i> , 2017 , 2, 1960-1968	20.1	39
21	The Roles of Structural Order and Intermolecular Interactions in Determining Ionization Energies and Charge-Transfer State Energies in Organic Semiconductors. <i>Advanced Energy Materials</i> , 2016 , 6, 1601211	21.8	37
20	Mesostructured Fullerene Electrodes for Highly Efficient n-i-p Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 1049-1056	20.1	35
19	Alkali Salts as Interface Modifiers in n-i-p Hybrid Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900088	7.1	32
18	Compositional and Interfacial Engineering Yield High-Performance and Stable p-i-n Perovskite Solar Cells and Mini-Modules. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13022-13033	9.5	31
17	Controlled Steric Hindrance Enables Efficient Ligand Exchange for Stable, Infrared-Bandgap Quantum Dot Inks. <i>ACS Energy Letters</i> , 2019 , 4, 1225-1230	20.1	30
16	Bismuth-Based Perovskite-Inspired Solar Cells: In Situ Diagnostics Reveal Similarities and Differences in the Film Formation of Bismuth- and Lead-Based Films. <i>Solar Rrl</i> , 2019 , 3, 1800305	7.1	30
15	Programmable and coherent crystallization of semiconductors. <i>Science Advances</i> , 2017 , 3, e1602462	14.3	27
14	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
13	In situ study of the film formation mechanism of organic-inorganic hybrid perovskite solar cells: controlling the solvate phase using an additive system. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7695-7703	7.3	25
12	Hybrid perovskite solar cells: In situ investigation of solution-processed PbI ₂ reveals metastable precursors and a pathway to producing porous thin films. <i>Journal of Materials Research</i> , 2017 , 32, 1899-1907	2.5	24
11	Solution-processable MoO _x nanocrystals enable highly efficient reflective and semitransparent polymer solar cells. <i>Nano Energy</i> , 2016 , 28, 277-287	17.1	23
10	Facile Doping and Work-Function Modification of Few-Layer Graphene Using Molecular Oxidants and Reductants. <i>Advanced Functional Materials</i> , 2017 , 27, 1602004	15.6	22
9	Study on the enhanced and stable field emission behavior of a novel electrospayed Al-doped ZnO bilayer film. <i>RSC Advances</i> , 2014 , 4, 9072	3.7	18
8	Hybrid perovskite crystallization from binary solvent mixtures: interplay of evaporation rate and binding strength of solvents. <i>Materials Advances</i> , 2020 , 1, 3314-3321	3.3	17
7	Wide and Tunable Bandgap MAPbBr ₃ -Cl _x Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021 , 5, 2000718	7.1	10
6	Zinc Oxide-Perylene Diimide Hybrid Electron Transport Layers for Air-Processed Inverted Organic Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 49096-49103	9.5	8

5	Characterization of Cu ₂ ZnSnSe ₄ Thin Films Selenized with Cu _{2-x} Se/SnSe ₂ /ZnSe and Cu/SnSe ₂ /ZnSe Stacks. <i>Korean Journal of Materials Research</i> , 2013 , 23, 183-189	0.2	4
4	Facile and noninvasive passivation, doping and chemical tuning of macroscopic hybrid perovskite crystals. <i>PLoS ONE</i> , 2020 , 15, e0230540	3.7	3
3	Ultra-low p-doping of poly(3-hexylthiophene) and its impact on polymer aggregation and photovoltaic performance. <i>Organic Photonics and Photovoltaics</i> , 2016 , 4,	5	3
2	Air-Processed Organic Photovoltaics for Outdoor and Indoor Use Based upon a Tin Oxide-Perylene Diimide Electron Transporting Bilayer. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2101918	4.6	3
1	Perovskite Photovoltaics: Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases (Adv. Mater. 2/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1