

Rahim Munir

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.

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	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
39	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
38	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
37	Wide and Tunable Bandgap MAPbBr ₃ /Clx Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021 , 5, 2000718	7.1	10
36	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
35	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
34	Facile and noninvasive passivation, doping and chemical tuning of macroscopic hybrid perovskite crystals. <i>PLoS ONE</i> , 2020 , 15, e0230540	3.7	3
33	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
32	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. <i>Nature Photonics</i> , 2020 , 14, 227-233	33.9	91
31	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
30	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
29	Alkali Salts as Interface Modifiers in n-i-p Hybrid Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900088	7.1	32
28	Lattice anchoring stabilizes solution-processed semiconductors. <i>Nature</i> , 2019 , 570, 96-101	50.4	149
27	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
26	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
25	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
24	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. <i>Nature Nanotechnology</i> , 2018 , 13, 456-462	28.7	196

23	Phase Transition Control for High Performance Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1707166	24	192
22	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
21	Stable High-Performance Perovskite Solar Cells via Grain Boundary Passivation. <i>Advanced Materials</i> , 2018 , 30, e1706576	24	505
20	Phase Transition Control for High-Performance Blade-Coated Perovskite Solar Cells. <i>Joule</i> , 2018 , 2, 1313-1330	24	125
19	Multi-inch single-crystalline perovskite membrane for high-detectivity flexible photosensors. <i>Nature Communications</i> , 2018 , 9, 5302	17.4	136
18	Compositional and orientational control in metal halide perovskites of reduced dimensionality. <i>Nature Materials</i> , 2018 , 17, 900-907	27	252
17	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
16	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
15	Programmable and coherent crystallization of semiconductors. <i>Science Advances</i> , 2017 , 3, e1602462	14.3	27
14	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	25.5	24
13	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
12	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
11	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
10	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
9	Stable high efficiency two-dimensional perovskite solar cells via cesium doping. <i>Energy and Environmental Science</i> , 2017 , 10, 2095-2102	35.4	496
8	Hybrid organic-inorganic inks flatten the energy landscape in colloidal quantum dot solids. <i>Nature Materials</i> , 2017 , 16, 258-263	27	432
7	Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases. <i>Advanced Materials</i> , 2017 , 29, 1604113	24	120
6	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

5	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
4	Mesostructured Fullerene Electrodes for Highly Efficient n-i-p Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 1049-1056	20.1	35
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	Study on the enhanced and stable field emission behavior of a novel electro sprayed Al-doped ZnO bilayer film. <i>RSC Advances</i> , 2014 , 4, 9072	3.7	18
1	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