Babak Taheri

List of Publications by Year
in descending order

18	716	686830 13	996533 15
papers	citations	h-index	g-index

19	19	19	1296
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simple and effective deposition method for solar cell perovskite films using a sheet of paper. IScience, 2022, 25, 103712.	1.9	9
2	Attributes of High-Performance Electron Transport Layers for Perovskite Solar Cells on Flexible PET versus on Glass. ACS Applied Energy Materials, 2022, 5, 4096-4107.	2.5	22
3	Method for fabricating flexible solar cell perovskite semiconductors via a sheet of paper applicator soaked in anti-solvent. , 2022, , .		0
4	Laser-Scribing Optimization for Sprayed SnO₂-Based Perovskite Solar Modules on Flexible Plastic Substrates. ACS Applied Energy Materials, 2021, 4, 4507-4518.	2.5	31
5	Modified P3HT materials as hole transport layers for flexible perovskite solar cells. Journal of Power Sources, 2021, 494, 229735.	4.0	23
6	Light-Stable Methylammonium-Free Inverted Flexible Perovskite Solar Modules on PET Exceeding 10.5% on a 15.7 cm² Active Area. ACS Applied Materials & Interfaces, 2021, 13, 29576-29584.	4.0	22
7	Thermosetting Polyurethane Resins as Low-Cost, Easily Scalable, and Effective Oxygen and Moisture Barriers for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 54862-54875.	4.0	30
8	Automated Scalable Spray Coating of SnO₂ for the Fabrication of Lowâ€Temperature Perovskite Solar Cells and Modules. Energy Technology, 2020, 8, 1901284.	1.8	34
9	Thiazolo[5,4-d]thiazole-based organic sensitizers with improved spectral properties for application in greenhouse-integrated dye-sensitized solar cells. Sustainable Energy and Fuels, 2020, 4, 2309-2321.	2.5	42
10	Closing the Cell-to-Module Efficiency Gap: A Fully Laser Scribed Perovskite Minimodule With 16% Steady-State Aperture Area Efficiency. IEEE Journal of Photovoltaics, 2018, 8, 151-155.	1.5	32
11	MoS₂ Quantum Dot/Graphene Hybrids for Advanced Interface Engineering of a CH₃NH₃PbI₃ Perovskite Solar Cell with an Efficiency of over 20%. ACS Nano, 2018, 12, 10736-10754.	7.3	201
12	Low temperature, solution-processed perovskite solar cells and modules with an aperture area efficiency of 11%. Solar Energy Materials and Solar Cells, 2018, 185, 136-144.	3.0	49
13	Graphene-engineered automated sprayed mesoscopic structure for perovskite device scaling-up. 2D Materials, 2018, 5, 045034.	2.0	34
14	Diffusion Length Mapping for Dye-Sensitized Solar Cells. Energies, 2016, 9, 686.	1.6	4
15	Grapheneâ€“Perovskite Solar Cells Exceed 18â€‰% Efficiency: A Stability Study. ChemSusChem, 2016, 9, 2609-2619.	3.6	163
16	Stability of dye-sensitized solar cell under reverse bias condition: Resonance Raman spectroscopy combined with spectrally resolved analysis by transmittance and efficiency mapping. Vibrational Spectroscopy, 2016, 84, 106-117.	1.2	20
17	Polyurethanes as low cost and efficient encapsulants for Perovskite Solar Cells. , 0, , .		0
18	Perovskite films and solar cells on PET substrates for space applications: stability study under neutron irradiation. , 0, , .		0