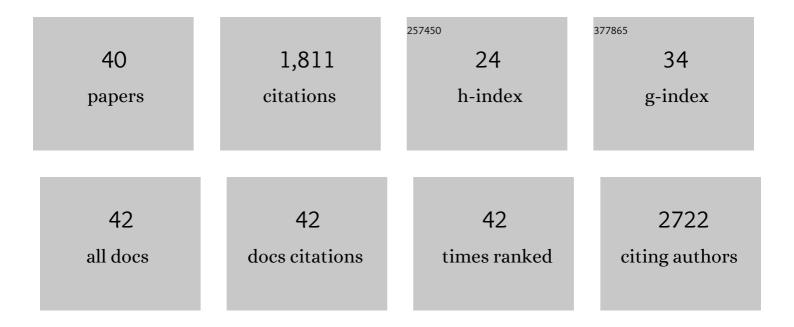
## Rasha A Awni

List of Publications by Year in descending order

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ΡΑςμΑ Δ ΔΙΑΝΙ

#	Article	IF	CITATIONS
1	Copper iodide nanoparticles as a hole transport layer to CdTe photovoltaics: 5.5 % efficient back-illuminated bifacial CdTe solar cells. Solar Energy Materials and Solar Cells, 2022, 235, 111451.	6.2	14
2	Improving CdSeTe Devices With a Back Buffer Layer of Cu <sub>x</sub> AlO <sub>y</sub> . IEEE Journal of Photovoltaics, 2022, 12, 16-21.	2.5	9
3	Templated Growth and Passivation of Vertically Oriented Antimony Selenide Thin Films for Highâ€Efficiency Solar Cells in Substrate Configuration. Advanced Functional Materials, 2022, 32, 2110032.	14.9	40
4	Reduced Recombination and Improved Performance of CdSe/CdTe Solar Cells due to Cu Migration Induced by Light Soaking. ACS Applied Materials & Interfaces, 2022, 14, 19644-19651.	8.0	12
5	Influence of Post-selenization Temperature on the Performance of Substrate-Type Sb <sub>2</sub> Se <sub>3</sub> Solar Cells. ACS Applied Energy Materials, 2021, 4, 4313-4318.	5.1	32
6	Enabling bifacial thin film devices by developing a back surface field using CuxAlOy. Nano Energy, 2021, 83, 105827.	16.0	32
7	Temperature-dependency of ferroelectric behavior in CH3NH3PbI3 perovskite films measured by the Sawyer–Tower method. MRS Advances, 2021, 6, 613-617.	0.9	1
8	Low-temperature and effective ex situ group V doping for efficient polycrystalline CdSeTe solar cells. Nature Energy, 2021, 6, 715-722.	39.5	31
9	On the design and performance of InGaN/Si double-junction photocathodes. Applied Physics Letters, 2021, 118, .	3.3	6
10	Fabricating Efficient CdTe Solar Cells: The Effect of Cu Precursor. , 2021, , .		2
11	Effects of Cu Precursor on the Performance of Efficient CdTe Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 38432-38440.	8.0	15
12	Optical Properties of Magnesium-Zinc Oxide for Thin Film Photovoltaics. Materials, 2021, 14, 5649.	2.9	3
13	Interface modification of sputtered NiO <sub>x</sub> as the hole-transporting layer for efficient inverted planar perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 1972-1980.	5.5	66
14	Arylammonium-Assisted Reduction of the Open-Circuit Voltage Deficit in Wide-Bandgap Perovskite Solar Cells: The Role of Suppressed Ion Migration. ACS Energy Letters, 2020, 5, 2560-2568.	17.4	131
15	InGaN/Si Double-Junction Photocathode for Unassisted Solar Water Splitting. ACS Energy Letters, 2020, 5, 3741-3751.	17.4	49
16	Semi-transparent p-type barium copper sulfide as a back contact interface layer for cadmium telluride solar cells. Solar Energy Materials and Solar Cells, 2020, 218, 110764.	6.2	10
17	CuSCN as the Back Contact for Efficient ZMO/CdTe Solar Cells. Materials, 2020, 13, 1991.	2.9	13
18	Influence of Charge Transport Layers on Capacitance Measured in Halide Perovskite Solar Cells. Joule, 2020, 4, 644-657.	24.0	69

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19	Correlating Hysteresis and Stability with Organic Cation Composition in the Two-Step Solution-Processed Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 10588-10596.	8.0	27
20	Maximize CdTe solar cell performance through copper activation engineering. Nano Energy, 2020, 73, 104835.	16.0	35
21	Open-circuit Voltage Exceeding 840 mV for All-Sputtered CdS/CdTe Devices. , 2020, , .		5
22	Influences of buffer material and fabrication atmosphere on the electrical properties of CdTe solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 1115-1123.	8.1	24
23	Wide-bandgap, low-bandgap, and tandem perovskite solar cells. Semiconductor Science and Technology, 2019, 34, 093001.	2.0	89
24	Solutionâ€processed copper (I) thiocyanate (CuSCN) for highly efficient CdSe/CdTe thinâ€film solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 665-672.	8.1	37
25	Eliminating S-Kink To Maximize the Performance of MgZnO/CdTe Solar Cells. ACS Applied Energy Materials, 2019, 2, 2896-2903.	5.1	60
26	Improving Performance and Stability of Planar Perovskite Solar Cells through Grain Boundary Passivation with Block Copolymers. Solar Rrl, 2019, 3, 1900078.	5.8	40
27	ZnTe Back Buffer Layer to Enhance the Efficiency of CdS/CdTe Solar Cells. , 2019, , .		5
28	Get rid of S-kink in MZO/CdTe Solar Cells by Performing CdCl <sub>2</sub> Annealing without Oxygen. , 2019, , .		2
29	Effects of Fabrication Atmosphere on Bulk and Back Interface Defects of CdTe Solar Cells with CdS and MgZnO Buffers. , 2019, , .		1
30	Electrodeposited Copper–Cobalt–Phosphide: A Stable Bifunctional Catalyst for Both Hydrogen and Oxygen Evolution Reactions. ACS Sustainable Chemistry and Engineering, 2019, 7, 3092-3100.	6.7	62
31	The Effects of Hydrogen lodide Back Surface Treatment on CdTe Solar Cells. Solar Rrl, 2019, 3, 1800304.	5.8	29
32	A New Hole Transport Material for Efficient Perovskite Solar Cells With Reduced Device Cost. Solar Rrl, 2018, 2, 1700175.	5.8	31
33	Stable and efficient CdS/Sb2Se3 solar cells prepared by scalable close space sublimation. Nano Energy, 2018, 49, 346-353.	16.0	130
34	Electrical Impedance Characterization of CdTe Thin Film Solar Cells with Hydrogen Iodide Back Surface Etching. , 2018, , .		2
35	Synergistic effects of thiocyanate additive and cesium cations on improving the performance and initial illumination stability of efficient perovskite solar cells. Sustainable Energy and Fuels, 2018, 2, 2435-2441.	4.9	27
36	Understanding and Eliminating Hysteresis for Highly Efficient Planar Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700414.	19.5	190

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37	Synergistic Effects of Lead Thiocyanate Additive and Solvent Annealing on the Performance of Wide-Bandgap Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 1177-1182.	17.4	190
38	Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. Journal of Materials Chemistry A, 2017, 5, 23319-23327.	10.3	40
39	Water Vapor Treatment of Low-Temperature Deposited SnO <sub>2</sub> Electron Selective Layers for Efficient Flexible Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 2118-2124.	17.4	161
40	One-step facile synthesis of a simple carbazole-cored hole transport material for high-performance perovskite solar cells. Nano Energy, 2017, 40, 163-169.	16.0	89