

# Hisham Nasser

## List of Publications by Year in descending order

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39  
papers

338  
citations

840776

11  
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888059

17  
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39  
docs citations

39  
times ranked

372  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of an efficient silicon heterostructure solar cell concept featuring molybdenum oxide carrier-selective contact. International Journal of Energy Research, 2018, 42, 1563-1579.	4.5	34
2	Simulation of silicon heterostructure solar cell featuring dopant-free carrier-selective molybdenum oxide and titanium oxide contacts. Renewable Energy, 2019, 143, 359-367.	8.9	27
3	Effect of surface type on structural and optical properties of Ag nanoparticles formed by dewetting. Optics Express, 2013, 21, A798.	3.4	26
4	Electrical, optical and surface characterization of reactive RF magnetron sputtered molybdenum oxide films for solar cell applications. Materials Science in Semiconductor Processing, 2019, 101, 46-56.	4.0	24
5	On the application of hole-selective MoO <sub>x</sub> as full-area rear contact for industrial scale p-type cSi solar cells. Progress in Photovoltaics: Research and Applications, 2021, 29, 281-293.	8.1	22
6	Fabrication of Ag Nanoparticles Embedded in Al:ZnO as Potential Light-Trapping Plasmonic Interface for Thin Film Solar Cells. Plasmonics, 2013, 8, 1485-1492.	3.4	21
7	Dependence of n-cSi/MoO <sub>x</sub> Heterojunction Performance on cSi Doping Concentration. Energy Procedia, 2017, 124, 418-424.	1.8	17
8	Optical characteristics of Bi <sub>12</sub> SiO <sub>20</sub> single crystals by spectroscopic ellipsometry. Materials Science in Semiconductor Processing, 2020, 120, 105286.	4.0	17
9	MoO <sub>x</sub> /Ag/MoO <sub>x</sub> multilayers as hole transport transparent conductive electrodes for n-type crystalline silicon solar cells. International Journal of Energy Research, 2020, 44, 3098-3109.	4.5	16
10	Enhanced Optical Absorption and Spectral Photocurrent in a-Si:H by Single- and Double-Layer Silver Plasmonic Interfaces. Plasmonics, 2014, 9, 357-365.	3.4	14
11	High haze nature of textured Al:ZnO with Ag nanoparticles for light management in thin film solar cells. Optical Materials Express, 2015, 5, 932.	3.0	12
12	Effect of aluminum thickness and etching time of aluminum induced texturing process on soda lime glass substrates for thin solar cell applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1201-1205.	0.8	9
13	Fourteen percent efficiency ultrathin silicon solar cells with improved infrared light management enabled by hole-selective transition metal oxide full-area rear passivating contacts. Progress in Photovoltaics: Research and Applications, 2022, 30, 823-834.	8.1	9
14	DETERMINATION OF TRAPPING CENTER PARAMETERS OF Tl <sub>2</sub> Ga <sub>2</sub> S <sub>3</sub> Se <sub>2</sub> LAYERED CRYSTALS BY THERMALLY STIMULATED CURRENT MEASUREMENTS. International Journal of Modern Physics B, 2010, 24, 2149-2161.	2.0	8
15	Low temperature aluminum doped zinc oxide thin film deposition on ultra-thin flexible glass and PET substrates by RF magnetron sputtering. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1215-1219.	0.8	8
16	Numerical analysis of dopant-free asymmetric silicon heterostructure solar cell with SiO <sub>2</sub> as passivation layer. International Journal of Energy Research, 2020, 44, 10739-10753.	4.5	8
17	Physical device simulation of dopant-free asymmetric silicon heterojunction solar cell featuring tungsten oxide as a hole-selective layer with ultrathin silicon oxide passivation layer. Renewable Energy, 2022, 183, 188-201.	8.9	8
18	Physical device simulation of partial dopant-free asymmetric silicon heterostructure solar cell (P-DASH) based on hole-selective Molybdenum oxide (MoO <sub>x</sub> ) with Crystalline Silicon (cSi)., 2017, .		7

#	ARTICLE	IF	CITATIONS
19	Electrical response of electron selective atomic layer deposited TiO <sub>2</sub> heterocontacts on crystalline silicon substrates. Semiconductor Science and Technology, 2018, 33, 045013.	2.0	7
20	Advanced light trapping interface for a-Si:H thin film. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1206-1210.	0.8	6
21	Admittance analysis of thermally evaporated-hole selective MoO <sub>3</sub> on crystalline silicon. , 2016, , .		6
22	Effect of laser parameters and post-texturing treatments on the optical and electrical properties of laser textured c-Si wafers. AIP Conference Proceedings, 2018, , .	0.4	6
23	On the electrical and charge conduction properties of thermally evaporated MoO <sub>x</sub> on n- and p-type crystalline silicon. Journal of Materials Science: Materials in Electronics, 2021, 32, 1092-1104.	2.2	5
24	Effect of Hole-Selective Molybdenum Oxide Work Function and Silicon Wafer Resistivity on Dopant-Free Asymmetric Silicon Heterostructure Solar Cell. , 2017, , .		4
25	Implementation of generalized Harvey-Shack theory in light scattering from rough surfaces. Physical Review A, 2020, 102, .	2.5	4
26	Optimized spacer layer thickness for plasmonic-induced enhancement of photocurrent in a-Si:H. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	3
27	Effect of amorphous SiC layer on electrical and optical properties of Al/a-SiC/c-Si Schottky diode for optoelectronic applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 20598-20611.	2.2	3
28	Optical properties of Cu <sub>3</sub> In <sub>5</sub> S <sub>9</sub> single crystals by spectroscopic ellipsometry. Optik, 2018, 171, 77-82.	2.9	2
29	Optical constants and critical point energies of (AgInSe <sub>2</sub> ) <sub>0.75</sub> (In <sub>2</sub> Se <sub>3</sub> ) <sub>0.25</sub> single crystals. Journal of Materials Science: Materials in Electronics, 2020, 31, 4702-4707.	2.2	2
30	Ultra-thin Al <sub>2</sub> O <sub>3</sub> capped with SiN <sub>x</sub> enabling implied open-circuit voltage reaching 720 mV on industrial p-type Cz c-Si wafers for passivated emitter and rear solar cells. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 012409.	2.1	2
31	Effect of Laser Wavelength on AZO Surface Texturing by Direct Laser Processing / Patterning for Thin-Film Silicon Solar Cells Applications. MRS Advances, 2018, 3, 1411-1418.	0.9	1
32	Dependence of plasmonic enhancement of photocurrent in a-Si:H on the position and thickness of SiN <sub>x</sub> spacer layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1220-1223.	0.8	0
33	Advanced plasmonic interfaces for optimized light trapping in photovoltaics. Journal of Physics: Conference Series, 2017, 869, 012043.	0.4	0
34	Slicing Crystalline Silicon Wafer by Deep Subsurface Laser Processing and Selective Chemical Etching. , 2019, , .		0
35	Surface Enhanced Raman Scattering with Photochemically Roughened Silicon Surfaces. , 2018, , .		0
36	Development of electron-selective SiO <sub>2</sub> /TiO <sub>2</sub> stack layers with superior surface passivation capacity for n-type silicon substrates (Conference Presentation). , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Laser Induced Periodic Surface Structured c-Si Solar Cell with more than 16% efficiency. , 2021, , .		0
38	Analysis on the Capacitance-Voltage Characteristics of Metal-Insulator-Semiconductor Capacitors Based on Thermally Evaporated Wox on N- and P- Type Crystalline Silicon. SSRN Electronic Journal, 0, , .	0.4	0
39	Impact of Ion Implantation and Annealing Parameters on Bifacial Perc and Pert Solar Cell Performance. SSRN Electronic Journal, 0, , .	0.4	0