

Hisham Nasser

List of Publications by Year in descending order

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39
papers

338
citations

949033

11
h-index

993246

17
g-index

39
all docs

39
docs citations

39
times ranked

435
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.3	8
2	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.	4.4	9
3	On the application of hole-selective MoO _x as full-area rear contact for industrial scale p-type c-Si solar cells. Progress in Photovoltaics: Research and Applications, 2021, 29, 281-293.	4.4	22
4	On the electrical and charge conduction properties of thermally evaporated MoO _x on n- and p-type crystalline silicon. Journal of Materials Science: Materials in Electronics, 2021, 32, 1092-1104.	1.1	5
5	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.	1.1	3
6	Ultra-thin Al ₂ O ₃ capped with SiN _x 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.	0.9	2
7	Laser Induced Periodic Surface Structured c-Si Solar Cell with more than 16% efficiency. , 2021, , .		0
8	MoO _x /Ag/MoO _x multilayers as hole transport transparent conductive electrodes for n-type crystalline silicon solar cells. International Journal of Energy Research, 2020, 44, 3098-3109.	2.2	16
9	Optical characteristics of Bi ₁₂ SiO ₂₀ single crystals by spectroscopic ellipsometry. Materials Science in Semiconductor Processing, 2020, 120, 105286.	1.9	17
10	Numerical analysis of dopant-free asymmetric silicon heterostructure solar cell with SiO ₂ as passivation layer. International Journal of Energy Research, 2020, 44, 10739-10753.	2.2	8
11	Implementation of generalized Harvey-Shack theory in light scattering from rough surfaces. Physical Review A, 2020, 102, .	1.0	4
12	Optical constants and critical point energies of (AgInSe ₂) _{0.75} (In ₂ Se ₃) _{0.25} single crystals. Journal of Materials Science: Materials in Electronics, 2020, 31, 4702-4707.	1.1	2
13	Slicing Crystalline Silicon Wafer by Deep Subsurface Laser Processing and Selective Chemical Etching. , 2019, , .		0
14	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.	1.9	24
15	Simulation of silicon heterostructure solar cell featuring dopant-free carrier-selective molybdenum oxide and titanium oxide contacts. Renewable Energy, 2019, 143, 359-367.	4.3	27
16	Development of electron-selective SiO ₂ /TiO ₂ stack layers with superior surface passivation capacity for n-type silicon substrates (Conference Presentation). , 2019, , .		0
17	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.	0.5	1
18	Electrical response of electron selective atomic layer deposited TiO ₂ heterocontacts on crystalline silicon substrates. Semiconductor Science and Technology, 2018, 33, 045013.	1.0	7

#	ARTICLE	IF	CITATIONS
19	Simulation of an efficient silicon heterostructure solar cell concept featuring molybdenum oxide carrier-selective contact. International Journal of Energy Research, 2018, 42, 1563-1579.	2.2	34
20	Effect of laser parameters and post-texturing treatments on the optical and electrical properties of laser textured c-Si wafers. AIP Conference Proceedings, 2018, , .	0.3	6
21	Optical properties of Cu ₃ In ₅ S ₉ single crystals by spectroscopic ellipsometry. Optik, 2018, 171, 77-82.	1.4	2
22	Surface Enhanced Raman Scattering with Photochemically Roughened Silicon Surfaces. , 2018, , .		0
23	Dependence of n-cSi/MoO _x Heterojunction Performance on cSi Doping Concentration. Energy Procedia, 2017, 124, 418-424.	1.8	17
24	Advanced plasmonic interfaces for optimized light trapping in photovoltaics. Journal of Physics: Conference Series, 2017, 869, 012043.	0.3	0
25	Physical device simulation of partial dopant-free asymmetric silicon heterostructure solar cell (P-DASH) based on hole-selective Molybdenum oxide (MoO _x) with Crystalline Silicon (cSi). , 2017, , .		7
26	Effect of Hole-Selective Molybdenum Oxide Work Function and Silicon Wafer Resistivity on Dopant-Free Asymmetric Silicon Heterostructure Solar Cell. , 2017, , .		4
27	Admittance analysis of thermally evaporated-hole selective MoO ₃ on crystalline silicon. , 2016, , .		6
28	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
29	Dependence of plasmonic enhancement of photocurrent in a-Si:H on the position and thickness of SiN _x spacer layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1220-1223.	0.8	0
30	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
31	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
32	Optimized spacer layer thickness for plasmonic-induced enhancement of photocurrent in a-Si:H. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	3
33	High haze nature of textured Al:ZnO with Ag nanoparticles for light management in thin film solar cells. Optical Materials Express, 2015, 5, 932.	1.6	12
34	Enhanced Optical Absorption and Spectral Photocurrent in a-Si:H by Single- and Double-Layer Silver Plasmonic Interfaces. Plasmonics, 2014, 9, 357-365.	1.8	14
35	Fabrication of Ag Nanoparticles Embedded in Al:ZnO as Potential Light-Trapping Plasmonic Interface for Thin Film Solar Cells. Plasmonics, 2013, 8, 1485-1492.	1.8	21
36	Effect of surface type on structural and optical properties of Ag nanoparticles formed by dewetting. Optics Express, 2013, 21, A798.	1.7	26

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37	DETERMINATION OF TRAPPING CENTER PARAMETERS OF $Tl_2Ga_2S_3Se$ LAYERED CRYSTALS BY THERMALLY STIMULATED CURRENT MEASUREMENTS. International Journal of Modern Physics B, 2010, 24, 2149-2161.	1.0	8
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