Abdelilah Slaoui

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.

68 papers	777 citations	16 h-index	26 g-index
74 ext. papers	900 ext. citations	3.8 avg, IF	3.66 L-index

#	Paper	IF	Citations
68	Synthesis and characterization of silicon clathrates of type I Na8Si46 and type II NaxSi136 by thermal decomposition. *Journal of Alloys and Compounds*, **2022**, 903, 163967	5.7	0
67	SnO2 Films Elaborated by Radio Frequency Magnetron Sputtering as Potential Transparent Conducting Oxides Alternative for Organic Solar Cells. *ACS Applied Energy Materials*, **2022**, 5, 170-177	6.1	0
66	Properties of Yb-added ZnO (Yb:ZnO) films as an energy-conversion layer on polycrystalline silicon solar cells. *Materials Chemistry and Physics*, **2021**, 265, 124513	4.4	1
65	Study of hybrid organic□inorganic halide perovskite solar cells based on MAI[(PbI2)1□x(CuI)x] absorber layers and their long-term stability. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 20684-20697	2.1	1
64	Photovoltaics: Advanced Inorganic Materials **2021**, 5-16		
63	Silicon Clathrate Films for Photovoltaic Applications. *Journal of Physical Chemistry C*, **2020**, 124, 14972-14977	3.7	5
62	Yb-doped zinc tin oxide thin film and its application to Cu(InGa)Se2 solar cells. *Journal of Alloys and Compounds*, **2020**, 815, 152360	5.7	5
61	Polyethylenimine-Ethoxylated Interfacial Layer for Efficient Electron Collection in SnO2-Based Inverted Organic Solar Cells. *Crystals*, **2020**, 10, 731	2.3	5
60	Photon management properties of Yb-doped SnO nanoparticles synthesized by the sol-gel technique. *Physical Chemistry Chemical Physics*, **2019**, 21, 21407-21417	3.6	13
59	Cu(InGa)Se2 Solar Cell Efficiency Enhancement Using a Yb-Doped SnOx Photon Converting Layer. *ACS Applied Energy Materials*, **2019**, 2, 5094-5102	6.1	7
58	Thickness Dependence and Strain Effects in Ferroelectric Bi2FeCrO6 Thin Films. *ACS Applied Energy Materials*, **2019**, 2, 8550-8559	6.1	5
57	EFFECT OF POTASSIUM CYANIDE ETCHING ON STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF Cu2ZnSnS4 THIN FILMS DEPOSITED BY A MODIFIED SPRAY PROCESS. *Surface Review and Letters*, **2019**, 26, 1950053	1.1	
56	Low-temperature growth and electronic structures of ambipolar Yb-doped zinc tin oxide transparent thin films. *Applied Surface Science*, **2018**, 441, 49-54	6.7	5
55	Band-Gap Tuning in Ferroelectric Bi2FeCrO6 Double Perovskite Thin Films. *Journal of Physical Chemistry C*, **2018**, 122, 1070-1077	3.8	22
54	Investigation of LaVO3 based compounds as a photovoltaic absorber. *Solar Energy*, **2018**, 162, 1-7	6.8	15
53	Absorption Enhancement in Thin-Film Solar Cells with Perforated Holes. *Plasmonics*, **2018**, 13, 939-945	2.4	1
52	Sodium doping mechanism on sol-gel processed kesterite Cu2ZnSnS4 thin films. *Superlattices and Microstructures*, **2018**, 120, 747-752	2.8	10

51	Macroporosity Enhancement of Scaffold Oxide Layers Using Self-Assembled Polymer Beads for Photovoltaic Applications. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700946	1.6	
50	Tuning photovoltaic response in BiFeCrO films by ferroelectric poling. *Nanoscale*, **2018**, 10, 13761-13766	7.7	20
49	Silicon Tunnel Junctions Produced by Ion Implantation and Diffusion Processes for Tandem Solar Cells. *IEEE Journal of Photovoltaics*, **2018**, 8, 1436-1442	3.7	2
48	Light emitting mechanisms in Si-rich SiNx films with different silicon nitride stoichiometry. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1600670	1.3	4
47	EuIII-Based Nanolayers as Highly Efficient Downshifters for CIGS Solar Cells. *European Journal of Inorganic Chemistry*, **2017**, 2017, 5318-5326	2.3	7
46	Nd-Doped SnO2 and ZnO for Application in Cu(InGa)Se2 Solar Cells. *Science of Advanced Materials*, **2017**, 9, 2114-2120	2.3	10
45	Tuning the chemical properties of europium complexes as downshifting agents for copper indium gallium selenide solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 14031-14040	13	26
44	Structural, optical and electrical properties of Nd-doped SnO2 thin films fabricated by reactive magnetron sputtering for solar cell devices. *Solar Energy Materials and Solar Cells*, **2016**, 145, 134-141	6.4	42
43	Enhancement of Copper Indium Gallium Selenide Solar Cells Using Europium Complex as Photon Downshifter. *Advanced Optical Materials*, **2016**, 4, 1846-1853	8.1	15
42	Kesterite / wurtzite Cu2ZnSnS4 nanocrystals: Synthesis and characterization for PV applications **2016**,		2
41	Properties of Cu2ZnSnS4 films elaborated by modified spray process **2016**,		1
40	Photon management properties of rare-earth (Nd,Yb,Sm)-doped CeO2 films prepared by pulsed laser deposition. *Physical Chemistry Chemical Physics*, **2016**, 18, 2527-34	3.6	6
39	High-k MNOS-Like Stacked Dielectrics for Non-Volatile Memory Application. *Journal of Nano Research*, **2016**, 39, 121-133	1	
38	Thickness effect on Cu2ZnSnS4 properties using non-toxic and low-cost process **2016**,		1
37	Insight into photon conversion of Nd3+ doped low temperature grown p and n type tin oxide thin films. *RSC Advances*, **2016**, 6, 67157-67165	3.7	11
36	First Solar Cells on Exfoliated Silicon Foils Obtained at Room Temperature by the SLIM-Cut Technique Using an Epoxy Layer. *IEEE Journal of Photovoltaics*, **2016**, 6, 1115-1122	3.7	10
35	Incorporation of dopant impurities into a silicon oxynitride matrix containing silicon nanocrystals. *Journal of Applied Physics*, **2016**, 119, 174303	2.5	2
34	The New Copper Composite of Pastes for Si Solar Cells Front Electrode Application. *Energy Procedia* , **2016**, 92, 962-970	2.3	8

33	Structural, electrical and optical properties of sprayed Nd codoped ZnO thin films. *Journal of Sol-Gel Science and Technology*, **2015**, 73, 557-562	2.3	11
32	Deposition Time Effect on the Physical Properties of Cu2ZnSnS4 (CZTS) Thin Films Obtained by Electrodeposition Route onto Mo-coated Glass Substrates. *Energy Procedia*, **2015**, 84, 127-133	2.3	18
31	Understanding Phenomena of Thin Silicon Film Crystallization on Aluminium Substrates. *Energy Procedia*, **2015**, 84, 156-164	2.3	2
30	Structural, optical, spectroscopic and electrical properties of Mo-doped ZnO thin films grown by radio frequency magnetron sputtering. *Thin Solid Films*, **2014**, 566, 61-69	2.2	24
29	Efficient energy transfer from ZnO to Nd3+ ions in Nd-doped ZnO films deposited by magnetron reactive sputtering. *Journal of Materials Chemistry C*, **2014**, 2, 9182-9188	7.1	24
28	Optical and structural properties of Nd doped SnO2 powder fabricated by the sol gel method. *Journal of Materials Chemistry C*, **2014**, 2, 8235-8243	7.1	68
27	Luminescent Properties and Energy Transfer in Pr3+ Doped and Pr3+-Yb3+ Co-doped ZnO Thin Films. *Journal of Physical Chemistry C*, **2014**, 118, 13775-13780	3.8	24
26	Charge Trapping in Hafnium Silicate Films with Modulated Composition and Enhanced Permittivity. *Advanced Materials Research*, **2013**, 854, 125-133	0.5	1
25	Bigger picture helps Alf Bj seth focus on energy and materials projects for the future. *MRS Bulletin*, **2013**, 38, 210-211	3.2	
24	Multicrystalline silicon solar cells from RST ribbon process. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2012**, 9, 2092-2096		5
23	Silicon nanostructures in silicon oxynitride for PV application: effect of argon. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2012**, 9, 1878-1883		2
22	Photoluminescence of Nd-doped SnO2 thin films. *Applied Physics Letters*, **2012**, 100, 101908	3.4	42
21	Formation of silicon nanoparticles from high temperature annealed silicon rich silicon oxynitride films **2012**,		2
20	Laser processing for thin film crystalline silicon solar cells **2012**,		1
19	Laser doping from spin-on sources for selective emitter silicon solar cells **2012**,		4
18	Hf-based high-k materials for Si nanocrystal floating gate memories. *Nanoscale Research Letters*, **2011**, 6, 172	5	27
17	Effect of ion implantation energy for the synthesis of Ge nanocrystals in SiN films with HfO2/SiO2 stack tunnel dielectrics for memory application. *Nanoscale Research Letters*, **2011**, 6, 177	5	14
16	Effect of annealing treatments on photoluminescence and charge storage mechanism in silicon-rich SiNx:H films. *Nanoscale Research Letters*, **2011**, 6, 178	5	31

List of Publications

15	Silicon Nanoclusters Embedded into Oxide Host for Non-Volatile Memory Applications. *ECS Transactions*, **2011**, 35, 37-45	1	2
14	Ultra-Low Energy Ion Implantation of Si into HfO2 and HfSiO-based Structures for Non Volatile Memory Applications. *Materials Research Society Symposia Proceedings*, **2010**, 1250, 1		
13	Correlation of structural properties with energy transfer of Eu-doped ZnO thin films prepared by sol-gel process and magnetron reactive sputtering. *Journal of Applied Physics*, **2010**, 107, 123522	2.5	53
12	Ultra-Low energy Ion Implantation of Si into HfO2-based layers for Non Volatile Memory Applications. *Materials Research Society Symposia Proceedings*, **2009**, 1160, 1		1
11	Optical properties of ZnO thin films prepared by sol-gel process. *Microelectronics Journal*, **2009**, 40, 239-242	1.8	40
10	Structural and photoluminescence properties of ZnO thin films prepared by sol-gel process. *Journal of Applied Physics*, **2008**, 104, 113539	2.5	50
9	Advanced Inorganic Materials for Photovoltaics. *MRS Bulletin*, **2007**, 32, 211-218	3.2	61
8	Influence of the Ge Dose in Ion-implanted SiO2 Layers on the Related Nanocrystal-memory Properties. *Materials Research Society Symposia Proceedings*, **2006**, 933, 1		
7	Polysilicon Films Formed On Alumina By Aluminium Induced Crystallization Of Amorphous Silicon. *Materials Research Society Symposia Proceedings*, **2006**, 910, 1		3
6	Rapid Thermal Dopants Diffusion and Surface Passivation for Silicon Solar Cells Applications. *Materials Research Society Symposia Proceedings*, **1996**, 429, 127		
5	Silicon Thin Film Homoepitaxy by Rapid Thermal Atmospheric-Pressure Chemical Vapor Deposition (RT-APCVD). *Materials Research Society Symposia Proceedings*, **1996**, 429, 367		1
4	Phosphorous Gettering by Rapid Thermal Processing. *Materials Research Society Symposia Proceedings*, **1992**, 262, 987		
3	High Energy Heavy Ions Irradiation of Thermal SiO2 Films on Si. *Materials Research Society Symposia Proceedings*, **1992**, 279, 141		2
2	Photooxidation Of Implanted Silicon With Pulsed UV-Laser In Liquid Phase Regime **1989**, 1022, 153		
1	Phosphorus Doping into Silicon Using ArF Excimer Laser. *Materials Research Society Symposia Proceedings*, **1989**, 158, 281		