

Abdelilah Slaoui

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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	Optical and structural properties of Nd doped SnO ₂ powder fabricated by the sol-gel method. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8235-8243	7.1	68
67	Advanced Inorganic Materials for Photovoltaics. <i>MRS Bulletin</i> , 2007 , 32, 211-218	3.2	61
66	Correlation of structural properties with energy transfer of Eu-doped ZnO thin films prepared by sol-gel process and magnetron reactive sputtering. <i>Journal of Applied Physics</i> , 2010 , 107, 123522	2.5	53
65	Structural and photoluminescence properties of ZnO thin films prepared by sol-gel process. <i>Journal of Applied Physics</i> , 2008 , 104, 113539	2.5	50
64	Structural, optical and electrical properties of Nd-doped SnO ₂ thin films fabricated by reactive magnetron sputtering for solar cell devices. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 145, 134-141	6.4	42
63	Photoluminescence of Nd-doped SnO ₂ thin films. <i>Applied Physics Letters</i> , 2012 , 100, 101908	3.4	42
62	Optical properties of ZnO thin films prepared by sol-gel process. <i>Microelectronics Journal</i> , 2009 , 40, 239-248	4.8	40
61	Effect of annealing treatments on photoluminescence and charge storage mechanism in silicon-rich SiN _x :H films. <i>Nanoscale Research Letters</i> , 2011 , 6, 178	5	31
60	Hf-based high-k materials for Si nanocrystal floating gate memories. <i>Nanoscale Research Letters</i> , 2011 , 6, 172	5	27
59	Tuning the chemical properties of europium complexes as downshifting agents for copper indium gallium selenide solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14031-14040	13	26
58	Structural, optical, spectroscopic and electrical properties of Mo-doped ZnO thin films grown by radio frequency magnetron sputtering. <i>Thin Solid Films</i> , 2014 , 566, 61-69	2.2	24
57	Efficient energy transfer from ZnO to Nd ³⁺ ions in Nd-doped ZnO films deposited by magnetron reactive sputtering. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9182-9188	7.1	24
56	Luminescent Properties and Energy Transfer in Pr ³⁺ Doped and Pr ³⁺ -Yb ³⁺ Co-doped ZnO Thin Films. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13775-13780	3.8	24
55	Band-Gap Tuning in Ferroelectric Bi ₂ FeCrO ₆ Double Perovskite Thin Films. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1070-1077	3.8	22
54	Tuning photovoltaic response in BiFeCrO films by ferroelectric poling. <i>Nanoscale</i> , 2018 , 10, 13761-13766	7.7	20
53	Deposition Time Effect on the Physical Properties of Cu ₂ ZnSnS ₄ (CZTS) Thin Films Obtained by Electrodeposition Route onto Mo-coated Glass Substrates. <i>Energy Procedia</i> , 2015 , 84, 127-133	2.3	18
52	Investigation of LaVO ₃ based compounds as a photovoltaic absorber. <i>Solar Energy</i> , 2018 , 162, 1-7	6.8	15

51	Enhancement of Copper Indium Gallium Selenide Solar Cells Using Europium Complex as Photon Downshifter. <i>Advanced Optical Materials</i> , 2016 , 4, 1846-1853	8.1	15
50	Effect of ion implantation energy for the synthesis of Ge nanocrystals in SiN films with HfO ₂ /SiO ₂ stack tunnel dielectrics for memory application. <i>Nanoscale Research Letters</i> , 2011 , 6, 177	5	14
49	Photon management properties of Yb-doped SnO nanoparticles synthesized by the sol-gel technique. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21407-21417	3.6	13
48	Structural, electrical and optical properties of sprayed Nd ³⁺ codoped ZnO thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 73, 557-562	2.3	11
47	Insight into photon conversion of Nd ³⁺ doped low temperature grown p and n type tin oxide thin films. <i>RSC Advances</i> , 2016 , 6, 67157-67165	3.7	11
46	Sodium doping mechanism on sol-gel processed kesterite Cu ₂ ZnSnS ₄ thin films. <i>Superlattices and Microstructures</i> , 2018 , 120, 747-752	2.8	10
45	Nd-Doped SnO ₂ and ZnO for Application in Cu(InGa)Se ₂ Solar Cells. <i>Science of Advanced Materials</i> , 2017 , 9, 2114-2120	2.3	10
44	First Solar Cells on Exfoliated Silicon Foils Obtained at Room Temperature by the SLIM-Cut Technique Using an Epoxy Layer. <i>IEEE Journal of Photovoltaics</i> , 2016 , 6, 1115-1122	3.7	10
43	The New Copper Composite of Pastes for Si Solar Cells Front Electrode Application. <i>Energy Procedia</i> , 2016 , 92, 962-970	2.3	8
42	EuIII-Based Nanolayers as Highly Efficient Downshifters for CIGS Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5318-5326	2.3	7
41	Cu(InGa)Se ₂ Solar Cell Efficiency Enhancement Using a Yb-Doped SnO _x Photon Converting Layer. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5094-5102	6.1	7
40	Photon management properties of rare-earth (Nd,Yb,Sm)-doped CeO ₂ films prepared by pulsed laser deposition. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2527-34	3.6	6
39	Silicon Clathrate Films for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14972-14977	3.7	5
38	Low-temperature growth and electronic structures of ambipolar Yb-doped zinc tin oxide transparent thin films. <i>Applied Surface Science</i> , 2018 , 441, 49-54	6.7	5
37	Multicrystalline silicon solar cells from RST ribbon process. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 2092-2096		5
36	Yb-doped zinc tin oxide thin film and its application to Cu(InGa)Se ₂ solar cells. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152360	5.7	5
35	Polyethylenimine-Ethoxylated Interfacial Layer for Efficient Electron Collection in SnO ₂ -Based Inverted Organic Solar Cells. <i>Crystals</i> , 2020 , 10, 731	2.3	5
34	Thickness Dependence and Strain Effects in Ferroelectric Bi ₂ FeCrO ₆ Thin Films. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8550-8559	6.1	5

33	Light emitting mechanisms in Si-rich SiN _x films with different silicon nitride stoichiometry. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600670	1.3	4
32	Laser doping from spin-on sources for selective emitter silicon solar cells 2012 ,		4
31	Polysilicon Films Formed On Alumina By Aluminium Induced Crystallization Of Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 910, 1		3
30	Kesterite / wurtzite Cu ₂ ZnSnS ₄ nanocrystals: Synthesis and characterization for PV applications 2016 ,		2
29	Understanding Phenomena of Thin Silicon Film Crystallization on Aluminium Substrates. <i>Energy Procedia</i> , 2015 , 84, 156-164	2.3	2
28	Silicon nanostructures in silicon oxynitride for PV application: effect of argon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 1878-1883		2
27	Silicon Nanoclusters Embedded into Oxide Host for Non-Volatile Memory Applications. <i>ECS Transactions</i> , 2011 , 35, 37-45	1	2
26	Formation of silicon nanoparticles from high temperature annealed silicon rich silicon oxynitride films 2012 ,		2
25	High Energy Heavy Ions Irradiation of Thermal SiO ₂ Films on Si. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 279, 141		2
24	Incorporation of dopant impurities into a silicon oxynitride matrix containing silicon nanocrystals. <i>Journal of Applied Physics</i> , 2016 , 119, 174303	2.5	2
23	Silicon Tunnel Junctions Produced by Ion Implantation and Diffusion Processes for Tandem Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 1436-1442	3.7	2
22	Absorption Enhancement in Thin-Film Solar Cells with Perforated Holes. <i>Plasmonics</i> , 2018 , 13, 939-945	2.4	1
21	Properties of Cu ₂ ZnSnS ₄ films elaborated by modified spray process 2016 ,		1
20	Charge Trapping in Hafnium Silicate Films with Modulated Composition and Enhanced Permittivity. <i>Advanced Materials Research</i> , 2013 , 854, 125-133	0.5	1
19	Ultra-Low energy Ion Implantation of Si into HfO ₂ -based layers for Non Volatile Memory Applications. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1160, 1		1
18	Laser processing for thin film crystalline silicon solar cells 2012 ,		1
17	Silicon Thin Film Homoepitaxy by Rapid Thermal Atmospheric-Pressure Chemical Vapor Deposition (RT-APCVD). <i>Materials Research Society Symposia Proceedings</i> , 1996 , 429, 367		1
16	Thickness effect on Cu ₂ ZnSnS ₄ properties using non-toxic and low-cost process 2016 ,		1

- 15 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
- 14 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
- 13 Synthesis and characterization of silicon clathrates of type I Na₈Si₄₆ and type II Na_xSi₁₃₆ by thermal decomposition. *Journal of Alloys and Compounds*, **2022**, 903, 163967 5.7 0
- 12 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
- 11 High-k MNOS-Like Stacked Dielectrics for Non-Volatile Memory Application. *Journal of Nano Research*, **2016**, 39, 121-133 1
- 10 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}
- 9 Bigger picture helps Alf Bjøseth focus on energy and materials projects for the future. *MRS Bulletin*, **2013**, 38, 210-211 3.2
- 8 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
- 7 Influence of the Ge Dose in Ion-implanted SiO₂ Layers on the Related Nanocrystal-memory Properties. *Materials Research Society Symposia Proceedings*, **2006**, 933, 1
- 6 Rapid Thermal Dopants Diffusion and Surface Passivation for Silicon Solar Cells Applications. *Materials Research Society Symposia Proceedings*, **1996**, 429, 127
- 5 Phosphorous Gettering by Rapid Thermal Processing. *Materials Research Society Symposia Proceedings*, **1992**, 262, 987
- 4 Photooxidation Of Implanted Silicon With Pulsed UV-Laser In Liquid Phase Regime **1989**, 1022, 153
- 3 Phosphorus Doping into Silicon Using ArF Excimer Laser. *Materials Research Society Symposia Proceedings*, **1989**, 158, 281
- 2 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
- 1 Photovoltaics: Advanced Inorganic Materials **2021**, 5-16