

Messaoud J Bahoura

List of Publications by Year in descending order

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38
papers

324
citations

933447

10
h-index

888059

17
g-index

38
all docs

38
docs citations

38
times ranked

424
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the transport mean free path in a solid-state random laser. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 2389.	2.1	42
2	Large energy storage density performance of epitaxial BCT/BZT heterostructures via interface engineering. Scientific Reports, 2019, 9, 16809.	3.3	27
3	Fabrication and characterization of SnO ₂ nanorods for room temperature gas sensors. AIP Advances, 2018, 8, .	1.3	25
4	A thin film efficient pn-junction thermoelectric device fabricated by self-align shadow mask. Scientific Reports, 2020, 10, 1067.	3.3	25
5	Rapid Microwave Synthesis of Tunable Cadmium Selenide (CdSe) Quantum Dots for Optoelectronic Applications. Journal of Nanomaterials, 2020, 2020, 1-8.	2.7	23
6	Electrical conductivity and photoresistance of atomic layer deposited Al-doped ZnO films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, 01A146.	2.1	20
7	RF magnetron-sputtered Al/ZnO/Ag/Al/ZnO (AAA) multilayer electrode for transparent and flexible thin-film heater. Journal of Materials Science, 2019, 54, 7062-7071.	3.7	20
8	Lead-free relaxor-ferroelectric thin films for energy harvesting from low-grade waste-heat. Scientific Reports, 2021, 11, 111.	3.3	16
9	Reduced Transition Temperature in Al:ZnO/VO ₂ Based Multi-Layered Device for low Powered Smart Window Application. Scientific Reports, 2020, 10, 1824.	3.3	14
10	Gallium doped zinc oxide thin films as transparent conducting oxide for thin-film heaters. AIP Advances, 2021, 11, .	1.3	14
11	Diode-laser noise conversion in an optically dense atomic sample. Optics Letters, 2001, 26, 926.	3.3	13
12	Lead-free epitaxial ferroelectric heterostructures for energy storage applications. AIP Advances, 2018, 8, 125112.	1.3	10
13	Highly-efficient thermoelectric pn-junction device based on bismuth telluride (Bi ₂ Te ₃) and molybdenum disulfide (MoS ₂) thin films fabricated by RF magnetron sputtering technique. Journal of Applied Physics, 2018, 124, .	2.5	9
14	Surface Modification and Charge Injection in a Nanocomposite Of Metal Nanoparticles and Semiconductor Oxide Nanostructures. Scientific Reports, 2020, 10, 4743.	3.3	9
15	Data-driven thermoelectric modeling: Current challenges and prospects. Journal of Applied Physics, 2021, 130, .	2.5	9
16	LLCZN/PEO/LiPF ₆ Composite Solid-State Electrolyte for Safe Energy Storage Application. Batteries, 2022, 8, 3.	4.5	8
17	Terahertz wave source via difference-frequency mixing using cross-Reststrahlen band dispersion compensation phase matching: a material study. , 2000, , .		7
18	Study of absorption and reflection in solid-state random laser media. Applied Optics, 2004, 43, 4237.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Magnetic tunnel junctions using LaSrMnO ferromagnetic electrodes and PbZrTiO ₃ piezoelectric barrier. <i>Journal of Materials Research</i> , 2009, 24, 3065-3072.	2.6	3
20	Competition between (001) and (111) MgO thin film growth on Al-doped ZnO by oxygen plasma assisted pulsed laser deposition. <i>Journal of Applied Physics</i> , 2013, 113, 214102.	2.5	3
21	High-performance transparent film heater using random mesowire silver network. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 21088-21096.	2.2	3
22	Europium doping of cadmium selenide (CdSe) quantum dots <i>via</i> rapid microwave synthesis for optoelectronic applications. <i>Dalton Transactions</i> , 2021, 51, 264-273.	3.3	3
23	Ultimate linewidth reduction of a semiconductor laser frequency-stabilized to a Fabry-Perot interferometer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 1414-1421.	3.0	2
24	Plasmonic Pixel Biosensor Based on Grazing Angle Illumination and Computational Imaging. <i>IEEE Sensors Journal</i> , 2019, 19, 7313-7318.	4.7	2
25	Synthesis and characterization of maleic anhydride derived crosslinkable polymers for nonlinear optical applications. , 2000, , .		1
26	Stimulated emission in scattering and composite dielectric media (random lasers): effect of particle size (Key Lecture). , 2003, 5218, 124.		1
27	Infrared metamaterial by RF magnetron sputtered ZnO/Al:ZnO multilayers. <i>AIP Advances</i> , 2018, 8, .	1.3	1
28	Large Expansion of Operating Voltage Window in Polymer Based Flexible Solid State Supercapacitor. <i>MRS Advances</i> , 2018, 3, 1291-1300.	0.9	1
29	Growth Optimization of Multi-layer Thin Film Thermoelectric Materials based on Bi ₂ Te ₃ / WS ₂ superlattice Structure. <i>MRS Advances</i> , 2019, 4, 1709-1717.	0.9	1
30	Thickness controlled nanostructure formation in RF sputtered WS ₂ thin film. <i>Materials Research Express</i> , 2019, 6, 025002.	1.6	1
31	Potential low powered smart window coating using a stoichiometrically downgraded vanadium oxide thin film structure. <i>AIP Advances</i> , 2020, 10, 065201.	1.3	1
32	Highly dense CeO ₂ nanofibers and MnO ₂ nanoflowers composite electrode for energy storage application. <i>Atlas Journal of Materials Science</i> , 0, , 83-89.	0.2	1
33	A polymer composite based organic FET multi-sensing device. , 2020, , .		1
34	Multi-functional organic field effect transistor based on a dual doped P3HT. <i>AIMS Materials Science</i> , 2021, 8, 823-835.	1.4	1
35	Investigation of Microwave Irradiation Procedure for Synthesizing CdSe Quantum Dots. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-8.	1.8	0
36	Witness monitoring program with portable Raman spectroscopy for detecting molecular contamination. , 2018, , .		0

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37	ALD-Grown Metal Oxide Films for the Detection of Molecular Contaminants on Spacecraft. Journal of the IEST, 2019, 62, 1-10.	0.2	0
38	Gamma irradiation effect studies on monolayer CVD grown graphene on metallic substrates. , 2020, , .		0