

Nigel Shepherd

List of Publications by Year in descending order

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28
papers

366
citations

840776

11
h-index

794594

19
g-index

29
all docs

29
docs citations

29
times ranked

559
citing authors

#	ARTICLE	IF	CITATIONS
1	Workfunction tuning of zinc oxide films by argon sputtering and oxygen plasma: an experimental and computational study. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 065301.	2.8	57
2	Near-white and tunable electrophosphorescence from bis[3,5-bis(2-pyridyl)-1,2,4-triazolato]platinum(II)-based organic light emitting diodes. <i>Organic Electronics</i> , 2009, 10, 863-870.	2.6	49
3	Extrinsic p-type doping of few layered WS ₂ films with niobium by pulsed laser deposition. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	25
4	Sputter deposited GaN doped erbium thin films: Photoluminescence and 1550 nm infrared electroluminescence. <i>Applied Physics Letters</i> , 2003, 83, 641-643.	3.3	24
5	Transient electroluminescence determination of carrier mobility and charge trapping effects in heavily doped phosphorescent organic light-emitting diodes. <i>Solid-State Electronics</i> , 2011, 56, 196-200.	1.4	24
6	A comparative study of the photoluminescence and conduction mechanisms of low temperature pulsed laser deposited and atomic layer deposited zinc oxide thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2487-2491.	1.8	20
7	Semiconductor to metal transition in degenerate ZnO: Al films and the impact on its carrier scattering mechanisms and bandgap for OLED applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1492-1498.	2.2	19
8	Cycling performance and morphological evolution of pulsed laser-deposited FeF ₂ thin film cathodes for Li-ion batteries. <i>Journal of Materials Science</i> , 2015, 50, 5174-5182.	3.7	18
9	Growth of pulsed laser deposited few-layer WS ₂ films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	12
10	Defect structure and chemical bonding of p-type ZnO:Sb thin films prepared by pulsed laser deposition. <i>Semiconductor Science and Technology</i> , 2014, 29, 115019.	2.0	11
11	The influence of MoO _x gap states on hole injection from aluminum doped zinc oxide with nanoscale MoO _x surface layer anodes for organic light emitting diodes. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	11
12	Bonding and stoichiometry in low-energy radio frequency magnetron sputtered ZnO thin films on flexible substrate. <i>Vacuum</i> , 2021, 183, 109869.	3.5	11
13	High efficiency orange-red phosphorescent organic light emitting diodes based on a Pt(II)-pyridyltriazolate complex from a structure optimized for charge balance and reduced efficiency roll-off. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 221-225.	1.8	10
14	Electromechanical behavior of pulsed laser deposited platinum-based metallic glass thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 399-404.	1.8	10
15	Mechanisms of AZO workfunction tuning for anode use in OLEDs: Surface dipole manipulation with plasma treatments versus nanoscale WO _x and VO _x interfacial layers. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	10
16	Interface structures of ZnO/MoO ₃ and their effect on workfunction of ZnO surfaces from first principles calculations. <i>Computational Materials Science</i> , 2018, 141, 162-169.	3.0	10
17	Effect of surface adsorption and non-stoichiometry on the workfunction of ZnO surfaces: A first principles study. <i>Journal of Applied Physics</i> , 2015, 117, 165304.	2.5	9
18	A photoelectron study of annealing induced changes to workfunction and majority carrier type in pulsed laser deposited few layer WS ₂ films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20051-20056.	2.2	7

#	ARTICLE	IF	CITATIONS
19	Composition, dielectric breakdown, and bandgap of ultra-thin amorphous boron oxynitride produced by magnetron sputtering. <i>Vacuum</i> , 2021, 188, 110211.	3.5	7
20	Electrical and chemical analysis of zinc oxide interfaces with high dielectric constant barium tantalate and aluminum oxide in metal-insulator-semiconductor structures fabricated at Low temperatures. <i>Thin Solid Films</i> , 2011, 520, 475-480.	1.8	6
21	High efficiency electrophosphorescence from bilayer organic light emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 365103.	2.8	5
22	Electro-optical performance of molybdenum oxide modified aluminum doped zinc oxide anodes in organic light emitting diodes: A comparison to indium tin oxide. <i>Materials Express</i> , 2016, 6, 289-294.	0.5	4
23	Sputter deposited electroluminescent zinc sulfide thin films doped with rare earths. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 492-499.	2.1	3
24	Electrical and optical properties of yttrium-doped zinc oxide by spray pyrolysis for solar cell applications. , 2011, , .		2
25	Effect of deposition energy on the microstructure and phase purity of pulsed laser deposited iron fluoride thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 863-868.	2.3	2
26	Enhanced outcoupling of electroluminescence from ZnS:ErF3 thin films by a photonic crystal. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 011003.	1.2	0
27	Maxwell-Wagner-Sillars Dynamics and Enhanced Radio-Frequency Elastomechanical Susceptibility in PNIPAm Hydrogel-KF-doped Barium Titanate Nanoparticle Composites. <i>Nanoscale Research Letters</i> , 2019, 14, 385.	5.7	0
28	Characterization of RF magnetron-sputtered a-BOxNy/ZnO MIS structures for transparent electronics. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , 1.	2.2	0