

# 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	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
2	Composition, dielectric breakdown, and bandgap of ultra-thin amorphous boron oxynitride produced by magnetron sputtering. <i>Vacuum</i> , 2021, 188, 110211.	3.5	7
3	Growth of pulsed laser deposited few-layer WS <sub>2</sub> films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	12
4	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
5	Interface structures of ZnO/MoO <sub>3</sub> and their effect on workfunction of ZnO surfaces from first principles calculations. <i>Computational Materials Science</i> , 2018, 141, 162-169.	3.0	10
6	A photoelectron study of annealing induced changes to workfunction and majority carrier type in pulsed laser deposited few layer WS <sub>2</sub> films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20051-20056.	2.2	7
7	Extrinsic p-type doping of few layered WS <sub>2</sub> films with niobium by pulsed laser deposition. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	25
8	Mechanisms of AZO workfunction tuning for anode use in OLEDs: Surface dipole manipulation with plasma treatments versus nanoscale WO <sub>x</sub> and VO <sub>x</sub> interfacial layers. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	10
9	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
10	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
11	Cycling performance and morphological evolution of pulsed laser-deposited FeF <sub>2</sub> thin film cathodes for Li-ion batteries. <i>Journal of Materials Science</i> , 2015, 50, 5174-5182.	3.7	18
12	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
13	The influence of MoO <sub>x</sub> gap states on hole injection from aluminum doped zinc oxide with nanoscale MoO <sub>x</sub> surface layer anodes for organic light emitting diodes. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	11
14	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
15	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
16	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
17	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
18	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

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19	Electrical and optical properties of yttrium-doped zinc oxide by spray pyrolysis for solar cell applications. , 2011, , .		2
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. Thin Solid Films, 2011, 520, 475-480.	1.8	6
21	Transient electroluminescence determination of carrier mobility and charge trapping effects in heavily doped phosphorescent organic light-emitting diodes. Solid-State Electronics, 2011, 56, 196-200.	1.4	24
22	High efficiency electrophosphorescence from bilayer organic light emitting diodes. Journal Physics D: Applied Physics, 2011, 44, 365103.	2.8	5
23	Enhanced outcoupling of electroluminescence from ZnS:ErF3 thin films by a photonic crystal. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 011003.	1.2	0
24	A comparative study of the photoluminescence and conduction mechanisms of low temperature pulsed laser deposited and atomic layer deposited zinc oxide thin films. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2487-2491.	1.8	20
25	Near-white and tunable electrophosphorescence from bis[3,5-bis(2-pyridyl)-1,2,4-triazolato]platinum(II)-based organic light emitting diodes. Organic Electronics, 2009, 10, 863-870.	2.6	49
26	Sputter deposited electroluminescent zinc sulfide thin films doped with rare earths. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 492-499.	2.1	3
27	Sputter deposited GaN doped erbium thin films: Photoluminescence and 1550 nm infrared electroluminescence. Applied Physics Letters, 2003, 83, 641-643.	3.3	24
28	Characterization of RF magnetron-sputtered a-BOxNy/ZnO MIS structures for transparent electronics. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	0