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List of Publications by Year in descending order

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43
papers

1,670
citations

279487

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276539

41
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all docs

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docs citations

44
times ranked

2742
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical biosensors based on ZnO nanostructures: advantages and perspectives. A review. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 664-677.	4.0	253
2	Application of 2D Non-Graphene Materials and 2D Oxide Nanostructures for Biosensing Technology. <i>Sensors</i> , 2016, 16, 223.	2.1	128
3	UV photo-detector based on p-NiO thin film/n-ZnO nanorods heterojunction prepared by a simple process. <i>Journal of Alloys and Compounds</i> , 2015, 632, 165-171.	2.8	121
4	Surface morphology effects on the light-controlled wettability of ZnO nanostructures. <i>Applied Surface Science</i> , 2012, 258, 8146-8152.	3.1	103
5	On the interaction of toxic Heavy Metals (Cd, Hg, Pb) with graphene quantum dots and infinite graphene. <i>Scientific Reports</i> , 2017, 7, 3934.	1.6	94
6	Continuous sensing of hydrogen peroxide and glucose via quenching of the UV and visible luminescence of ZnO nanoparticles. <i>Mikrochimica Acta</i> , 2015, 182, 1819-1826.	2.5	82
7	ZnO nanoparticles or ZnO films: A comparison of the gas sensing capabilities. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 94-102.	4.0	75
8	Toward development of optical biosensors based on photoluminescence of TiO ₂ nanoparticles for the detection of Salmonella. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 95-102.	4.0	70
9	Application of Room Temperature Photoluminescence From ZnO Nanorods for Salmonella Detection. <i>IEEE Sensors Journal</i> , 2014, 14, 2028-2034.	2.4	57
10	A detailed optical investigation of ZnO@ZnS core-shell nanoparticles and their photocatalytic activity at different pH values. <i>Ceramics International</i> , 2015, 41, 7174-7184.	2.3	57
11	Effect of oxygen exposure on the electrical conductivity and gas sensitivity of nanostructured ZnO films. <i>Thin Solid Films</i> , 2009, 517, 2073-2078.	0.8	54
12	Biotinylation of ZnO Nanoparticles and Thin Films: A Two-Step Surface Functionalization Study. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2128-2135.	4.0	41
13	Combining graphene with silicon carbide: synthesis and properties – a review. <i>Semiconductor Science and Technology</i> , 2016, 31, 113004.	1.0	38
14	Improvement of ZnO thin film properties by application of ZnO buffer layers. <i>Journal of Crystal Growth</i> , 2007, 308, 93-98.	0.7	37
15	Morphology engineering of ZnO nanostructures. <i>Physica B: Condensed Matter</i> , 2012, 407, 1533-1537.	1.3	36
16	Influence of ZnO seed layer precursor molar ratio on the density of interface defects in low temperature aqueous chemically synthesized ZnO nanorods/GaN light-emitting diodes. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	30
17	Insights into the origin of the excited transitions in graphene quantum dots interacting with heavy metals in different media. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30445-30463.	1.3	29
18	Role of the Potential Barrier in the Electrical Performance of the Graphene/SiC Interface. <i>Crystals</i> , 2017, 7, 162.	1.0	29

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19	Application of ZnO Nanorods Based Whispering Gallery Mode Resonator in Optical Immunosensors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 191, 110999.	2.5	28
20	Heteroepitaxial ZnO nano hexagons on p-type SiC. <i>Journal of Crystal Growth</i> , 2010, 312, 327-332.	0.7	27
21	Monolayer graphene/SiC Schottky barrier diodes with improved barrier height uniformity as a sensing platform for the detection of heavy metals. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1800-1814.	1.5	27
22	Comparative PL study of individual ZnO nanorods, grown by APMOCVD and CBD techniques. <i>Physica B: Condensed Matter</i> , 2012, 407, 1538-1542.	1.3	26
23	Investigation of ZnO as a perspective material for photonics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 144-149.	0.8	25
24	Effect of oxygen content on the structural and optical properties of ZnO films grown by atmospheric pressure MOCVD. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 44-50.	1.8	22
25	Habit-modifying additives and their morphological consequences on photoluminescence and glucose sensing properties of ZnO nanostructures, grown via aqueous chemical synthesis. <i>Vacuum</i> , 2015, 116, 21-26.	1.6	22
26	ZnO materials and surface tailoring for biosensing. <i>Frontiers in Bioscience - Elite</i> , 2012, E4, 254.	0.9	19
27	Selective homoepitaxial growth and luminescent properties of ZnO nanopillars. <i>Nanotechnology</i> , 2011, 22, 185603.	1.3	18
28	Crystal phase engineered quantum wells in ZnO nanowires. <i>Nanotechnology</i> , 2013, 24, 215202.	1.3	16
29	Effect of precursor solutions stirring on deep level defects concentration and spatial distribution in low temperature aqueous chemical synthesis of zinc oxide nanorods. <i>AIP Advances</i> , 2015, 5, .	0.6	13
30	Efficient Donor Impurities in ZnO Nanorods by Polyethylene Glycol for Enhanced Optical and Glutamate Sensing Properties. <i>Sensors</i> , 2016, 16, 222.	2.1	11
31	Understanding Graphene Response to Neutral and Charged Lead Species: Theory and Experiment. <i>Materials</i> , 2018, 11, 2059.	1.3	11
32	Supramolecules-assisted ZnO nanostructures growth and their UV photodetector application. <i>Solid State Sciences</i> , 2015, 41, 14-18.	1.5	9
33	High photocurrent gain in NiO thin film/M-doped ZnO nanorods (M=Ag, Cd and Ni) heterojunction based ultraviolet photodiodes. <i>Journal of Luminescence</i> , 2016, 178, 324-330.	1.5	9
34	Temperature dependent study of basal plane stacking faults in Ag:ZnO nanorods by Raman and photoluminescence spectroscopy. <i>Materials Science in Semiconductor Processing</i> , 2017, 69, 62-67.	1.9	9
35	Solar Explosive Evaporation Growth of ZnO Nanostructures. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 383.	1.3	9
36	Effect of Ag doping on the microstructure and photoluminescence of ZnO nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2109-2114.	0.8	7

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37	Nanointegration of ZnO with Si and SiC. Physica B: Condensed Matter, 2009, 404, 4359-4363.	1.3	6
38	Light emission enhancement from ZnO nanostructured films grown on Gr/SiC substrates. Carbon, 2016, 99, 295-301.	5.4	6
39	Effect of NiO intermediate layer on the optical and electrical properties of n-ZnO nanorods/p-GaAs heterojunction. Applied Physics A: Materials Science and Processing, 2015, 119, 1013-1018.	1.1	5
40	Temperature-Dependent Photoluminescence of ZnO Thin Films Grown on Off-Axis SiC Substrates by APMOCVD. Materials, 2021, 14, 1035.	1.3	4
41	New transducer material concepts for biosensors and surface functionalization. Proceedings of SPIE, 2009, , .	0.8	3
42	Synthesis of graphene oxide inks for printed electronics. , 2017, , .		3
43	Oxygen absorption effect on the sensitivity and material stability of ZnO nanostructured films. , 2008, , .		1