Volodymyr D Khranovskyy

List of Publications by Year
in descending order

43 papers	1,670 citations	279487 23 h-index	276539 41 g-index
44 all docs	44 docs citations	44 times ranked	2742 citing authors

#	Article	IF	Citations
1	Temperature-Dependent Photoluminescence of ZnO Thin Films Grown on Off-Axis SiC Substrates by APMOCVD. Materials, 2021, 14, 1035.	1.3	4
2	Application of ZnO Nanorods Based Whispering Gallery Mode Resonator in Optical Immunosensors. Colloids and Surfaces B: Biointerfaces, 2020, 191, 110999.	2.5	28
3	Understanding Graphene Response to Neutral and Charged Lead Species: Theory and Experiment. Materials, 2018, 11, 2059.	1.3	11
4	On the interaction of toxic Heavy Metals (Cd, Hg, Pb) with graphene quantum dots and infinite graphene. Scientific Reports, 2017, 7, 3934.	1.6	94
5	Toward development of optical biosensors based on photoluminescence of TiO2 nanoparticles for the detection of Salmonella. Sensors and Actuators B: Chemical, 2017, 252, 95-102.	4.0	70
6	Temperature dependent study of basal plane stacking faults in Ag:ZnO nanorods by Raman and photoluminescence spectroscopy. Materials Science in Semiconductor Processing, 2017, 69, 62-67.	1.9	9
7	Insights into the origin of the excited transitions in graphene quantum dots interacting with heavy metals in different media. Physical Chemistry Chemical Physics, 2017, 19, 30445-30463.	1.3	29
8	Synthesis of graphene oxide inks for printed electronics. , 2017, , .		3
9	Solar Explosive Evaporation Growth of ZnO Nanostructures. Applied Sciences (Switzerland), 2017, 7, 383.	1.3	9
10	Role of the Potential Barrier in the Electrical Performance of the Graphene/SiC Interface. Crystals, 2017, 7, 162.	1.0	29
11	Monolayer graphene/SiC Schottky barrier diodes with improved barrier height uniformity as a sensing platform for the detection of heavy metals. Beilstein Journal of Nanotechnology, 2016, 7, 1800-1814.	1.5	27
12	Efficient Donor Impurities in ZnO Nanorods by Polyethylene Glycol for Enhanced Optical and Glutamate Sensing Properties. Sensors, 2016, 16, 222.	2.1	11
13	Application of 2D Non-Graphene Materials and 2D Oxide Nanostructures for Biosensing Technology. Sensors, 2016, 16, 223.	2.1	128
14	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. Journal of Applied Physics, 2016, 119, .	1.1	30
15	Combining graphene with silicon carbide: synthesis and properties â€“ a review. Semiconductor Science and Technology, 2016, 31, 113004.	1.0	38
16	High photocurrent gain in NiO thin film/M-doped ZnO nanorods (M=Ag, Cd and Ni) heterojunction based ultraviolet photodiodes. Journal of Luminescence, 2016, 178, 324-330.	1.5	9
17	Optical biosensors based on ZnO nanostructures: advantages and perspectives. A review. Sensors and Actuators B: Chemical, 2016, 229, 664-677.	4.0	253
18	Light emission enhancement from ZnO nanostructured films grown on Gr/SiC substrates. Carbon, 2016, 99, 295-301.	5.4	6

#	Article	IF	Citations
19	Effect of precursor solutions stirring on deep level defects concentration and spatial distribution in low temperature aqueous chemical synthesis of zinc oxide nanorods. AIP Advances, 2015, 5, .	0.6	13
20	Supramolecules-assisted ZnO nanostructures growth and their UV photodetector application. Solid State Sciences, 2015, 41, 14-18.	1.5	9
21	UV photo-detector based on p-NiO thin film/n-ZnO nanorods heterojunction prepared by a simple process. Journal of Alloys and Compounds, 2015, 632, 165-171.	2.8	121
22	A detailed optical investigation of ZnO@ZnS coreâ€“shell nanoparticles and their photocatalytic activity at different pH values. Ceramics International, 2015, 41, 7174-7184.	2.3	57
23	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
24	Continuous sensing of hydrogen peroxide and glucose via quenching of the UV and visible luminescence of ZnO nanoparticles. Mikrochimica Acta, 2015, 182, 1819-1826.	2.5	82
25	Habit-modifying additives and their morphological consequences on photoluminescence and glucose sensing properties of ZnO nanostructures, grown via aqueous chemical synthesis. Vacuum, 2015, 116, 21-26.	1.6	22
26	Effect of Ag doping on the microstructure and photoluminescence of ZnO nanostructures. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2109-2114.	0.8	7
27	Application of Room Temperature Photoluminescence From ZnO Nanorods for Salmonella Detection. IEEE Sensors Journal, 2014, 14, 2028-2034.	2.4	57
28	Effect of oxygen content on the structural and optical properties of ZnO films grown by atmospheric pressure MOCVD. Progress in Natural Science: Materials International, 2013, 23, 44-50.	1.8	22
29	Crystal phase engineered quantum wells in ZnO nanowires. Nanotechnology, 2013, 24, 215202.	1.3	16
30	Surface morphology effects on the light-controlled wettability of ZnO nanostructures. Applied Surface Science, 2012, 258, 8146-8152.	3.1	103
31	ZnO materials and surface tailoring for biosensing. Frontiers in Bioscience - Elite, 2012, E4, 254.	0.9	19
32	Morphology engineering of ZnO nanostructures. Physica B: Condensed Matter, 2012, 407, 1533-1537.	1.3	36
33	Comparative PL study of individual ZnO nanorods, grown by APMOCVD and CBD techniques. Physica B: Condensed Matter, 2012, 407, 1538-1542.	1.3	26
34	Selective homoepitaxial growth and luminescent properties of ZnO nanopillars. Nanotechnology, 2011, 22, 185603.	1.3	18
35	Heteroepitaxial ZnO nano hexagons on p-type SiC. Journal of Crystal Growth, 2010, 312, 327-332.	0.7	27
36	Biotinylation of ZnO Nanoparticles and Thin Films: A Two-Step Surface Functionalization Study. ACS Applied Materials & Interfaces, 2010, 2, 2128-2135.	4.0	41

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37	Nanointegration of ZnO with Si and SiC. Physica B: Condensed Matter, 2009, 404, 4359-4363.	1.3	6
38	Effect of oxygen exposure on the electrical conductivity and gas sensitivity of nanostructured ZnO films. Thin Solid Films, 2009, 517, 2073-2078.	0.8	54
39	ZnO nanoparticles or ZnO films: A comparison of the gas sensing capabilities. Sensors and Actuators B: Chemical, 2009, 137, 94-102.	4.0	75
40	New transducer material concepts for biosensors and surface functionalization. Proceedings of SPIE, 2009, , .	0.8	3
41	Investigation of ZnO as a perspective material for photonics. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 144-149.	0.8	25
42	Oxygen absorption effect on the sensitivity and material stability of ZnO nanostructured films. , 2008, , .		1
43	Improvement of ZnO thin film properties by application of ZnO buffer layers. Journal of Crystal Growth, 2007, 308, 93-98.	0.7	37