

Valentyn A Smyntyna

List of Publications by Year in descending order

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81
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citations

304743

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83
all docs

83
docs citations

83
times ranked

2610
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of ZnO Nanorods Based Whispering Gallery Mode Resonator in Optical Immunosensors. Colloids and Surfaces B: Biointerfaces, 2020, 191, 110999.	5.0	28
2	Optical Properties of CdS Nanocrystals Doped with Zinc and Copper. Semiconductors, 2019, 53, 361-367.	0.5	5
3	Effect of porous silicon substrate on structural, mechanical and optical properties of MOCVD and ALD ruthenium oxide nanolayers. Applied Surface Science, 2019, 471, 686-693.	6.1	15
4	Porous silicon based photoluminescence immunosensor for rapid and highly-sensitive detection of Ochratoxin A. Biosensors and Bioelectronics, 2018, 102, 661-667.	10.1	64
5	Optical Immunosensor Based on Nanostructured ZnO Thin Films for Agricultural Purposes. , 2018, , .		0
6	Interaction mechanism between TiO ₂ nanostructures and bovine leukemia virus proteins in photoluminescence-based immunosensors. RSC Advances, 2018, 8, 37740-37748.	3.6	22
7	Optical properties of ZnO deposited by atomic layer deposition (ALD) on Si nanowires. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 236-237, 139-146.	3.5	19
8	Nanostructured SnO ₂ as CBRN Safety Material. NATO Science for Peace and Security Series A: Chemistry and Biology, 2018, , 107-127.	0.5	3
9	Heterogeneous Systems with Ag Nanoparticles. NATO Science for Peace and Security Series A: Chemistry and Biology, 2018, , 301-308.	0.5	0
10	Toward development of optical biosensors based on photoluminescence of TiO ₂ nanoparticles for the detection of Salmonella. Sensors and Actuators B: Chemical, 2017, 252, 95-102.	7.8	70
11	Method of infrared radiation detection by uncooled photodetector. Radioelectronics and Communications Systems, 2017, 60, 368-374.	0.5	0
12	Large-scale protein/antibody patterning with limiting unspecific adsorption. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	1
13	Gold coated porous silicon nanocomposite as a substrate for photoluminescence-based immunosensor suitable for the determination of Aflatoxin B1. Talanta, 2017, 175, 297-304.	5.5	59
14	ZnO films formed by atomic layer deposition as an optical biosensor platform for the detection of Grapevine virus A-type proteins. Biosensors and Bioelectronics, 2017, 92, 763-769.	10.1	60
15	Porous silicon photoluminescence biosensor for rapid and sensitive detection of toxins. , 2017, , .		1
16	SPECTRAL LUMINESCENCE PROPERTIES OF CdS NANOCOMPOSITES IN A POLYMER SHELL. Composites: Mechanics, Computations, Applications, 2017, 8, 171-180.	0.3	1
17	Thermogravimetric Study of Nano-SnO ₂ Precursors. Springer Proceedings in Physics, 2017, , 53-61.	0.2	2
18	Study on structural and optical properties of TiO ₂ ALD coated silicon nanostructures. Proceedings of SPIE, 2016, , .	0.8	0

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19	Enhancement of optical and mechanical properties of Si nanopillars by ALD TiO ₂ coating. RSC Advances, 2016, 6, 97070-97076.	3.6	28
20	Characterization of SnO ₂ Sensors Nanomaterials by Polarization Modulation Method. NATO Science for Peace and Security Series A: Chemistry and Biology, 2016, , 259-266.	0.5	0
21	Metal Oxide Based Biosensors for the Detection of Dangerous Biological Compounds. NATO Science for Peace and Security Series A: Chemistry and Biology, 2016, , 281-288.	0.5	3
22	Optical biosensors based on ZnO nanostructures: advantages and perspectives. A review. Sensors and Actuators B: Chemical, 2016, 229, 664-677.	7.8	253
23	The influence of localized plasmons on the optical properties of Au/ZnO nanostructures. Journal of Materials Chemistry C, 2015, 3, 6815-6821.	5.5	63
24	One and two-phonon Raman scattering from nanostructured silicon. Optik, 2015, 126, 1650-1655.	2.9	37
25	Optical properties of ultrathin Al ₂ O ₃ /ZnO nanolaminates. Thin Solid Films, 2015, 594, 96-100.	1.8	25
26	Structural and XPS characterization of ALD Al ₂ O ₃ coated porous silicon. Vacuum, 2015, 113, 52-58.	3.5	225
27	Tuning of ZnO 1D nanostructures by atomic layer deposition and electrospinning for optical gas sensor applications. Nanotechnology, 2015, 26, 105501.	2.6	67
28	Atomic layer deposition TiO ₂ coated porous silicon surface: Structural characterization and morphological features. Thin Solid Films, 2015, 589, 303-308.	1.8	45
29	Continuous sensing of hydrogen peroxide and glucose via quenching of the UV and visible luminescence of ZnO nanoparticles. Mikrochimica Acta, 2015, 182, 1819-1826.	5.0	82
30	Tailoring the Structural, Optical, and Photoluminescence Properties of Porous Silicon/TiO ₂ Nanostructures. Journal of Physical Chemistry C, 2015, 119, 7164-7171.	3.1	53
31	Photoactivation of luminescence in CdS nanocrystals. Beilstein Journal of Nanotechnology, 2014, 5, 355-359.	2.8	24
32	Raman spectroscopy of nanostructured silicon fabricated by metal-assisted chemical etching. Proceedings of SPIE, 2014, , .	0.8	10
33	Application of Room Temperature Photoluminescence From ZnO Nanorods for Salmonella Detection. IEEE Sensors Journal, 2014, 14, 2028-2034.	4.7	57
34	Optical and structural properties of Al ₂ O ₃ /ZnO nanolaminates deposited by ALD method. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1505-1508.	0.8	7
35	Tuning Optical Properties of Al ₂ O ₃ /ZnO Nanolaminates Synthesized by Atomic Layer Deposition. Journal of Physical Chemistry C, 2014, 118, 3811-3819.	3.1	111
36	Automated system of operational hydromonitoring of Ukrainian water bodies. Russian Meteorology and Hydrology, 2014, 39, 350-355.	1.3	1

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55	High sensitivity near-field opto-chemical sensors based on SnO ₂ particle layers. , 2007, , .		0
56	The nature of emission centers in CdS nanocrystals. Radiation Measurements, 2007, 42, 693-696.	1.4	28
57	A Novel Optochemical Sensor Based on SnO_2 Sensitive Thin Film for ppm Ammonia Detection in Liquid Environment. Journal of Lightwave Technology, 2006, 24, 5000-5007.	4.6	31
58	Atom Force Microscopy of SnO ₂ Nano Layers. , 2006, , .		0
59	Influence of Initial Silicon Defects on Processes of the Dioxide Silicon Defect Formation. , 2006, , .		1
60	Optochemical sensor for water monitoring based on SnO ₂ particle layer deposited onto optical fibers by the electrospray pyrolysis method. Applied Physics Letters, 2006, 89, 111103.	3.3	16
61	Influence of Layers Morphology on the Sensitivity of SnO ₂ -based Optical Fiber Sensors. , 2006, , .		1
62	Tin dioxide based optical sensor for in water ppm detection of ammonia at room temperature. , 2005, , .		2
63	Influence of structural defects on electric current in the channel of MOS-transistor. , 2005, , .		0
64	Ammonia detection in water with a tin dioxide based optical sensor. , 2005, , .		1
65	Correlation between electro-physical characteristics and elastic properties of cadmium selenide films. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 690-693.	0.8	1
66	Functional materials based on the complex compounds of germanium. Technical Physics Letters, 2000, 26, 168-169.	0.7	0
67	Current relaxation in microporous silicon. Technical Physics, 1999, 44, 1394-1395.	0.7	0
68	Optical and photoelectric- and gas-sensitive properties of porous silicon. , 1998, , .		0
69	Oxygen interaction of CdS-based gas sensors with different stoichiometric compositions was studied by X-ray photoelectron spectroscopy (XPS) and thermal-desorption mass spectroscopy observations combined with conductivity measurements. Three different types of film with different atomic ratios of Cd/S were used in the study of oxygen chemisorption in a low-temperature range between 300 and 570 K. Spray pyrolysis was used for the deposition of the films on glass substrates; XPS and energy dispersive spectros. Sensors and Actuators B: Chemical, 1995, 26, 108-112.	7.8	5
70	Influence of chemical composition on sensitivity and signal reproducibility of CdS sensors of oxygen. Sensors and Actuators B: Chemical, 1995, 25, 628-630.	7.8	19
71	Interaction between collective and local subsystems in semiconductor surface-active structures. Sensors and Actuators B: Chemical, 1995, 25, 647-652.	7.8	3
72	Surface spectroscopy study of CdSe and CdS thin-film oxygen sensors. Sensors and Actuators B: Chemical, 1994, 22, 189-194.	7.8	10

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73	Electronic mechanism for absorptive sensitivity in semiconductor gas sensors. Sensors and Actuators B: Chemical, 1994, 19, 426-428.	7.8	2
74	Dependence of sensitivity and reproducibility of CdS oxygen sensors. Sensors and Actuators B: Chemical, 1994, 19, 460-463.	7.8	6
75	The causes of thickness dependence of CdSe and CdS gas-sensor sensitivity to oxygen. Sensors and Actuators B: Chemical, 1994, 19, 464-465.	7.8	40
76	The sensitization of semiconductor gas sensors. Sensors and Actuators B: Chemical, 1992, 6, 289-292.	7.8	7
77	Influence of laser treatment on the adsorption interaction of cadmium sulfide films with oxygen. Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika), 1990, 33, 272-275.	0.0	0
78	Characteristics of recombination in semiconductors with intercrystallite barriers. Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika), 1989, 32, 203-206.	0.0	0
79	Structural properties of PbTe films studied by X-ray asymmetric reflections. Journal of Crystal Growth, 1982, 58, 611-616.	1.5	2
80	The chemisorption forms and the centre nature of oxygen chemisorption on the CdSe thin-film surfaces. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1981, 63, 642-650.	0.2	10
81	Simultaneous Temperature and Ammonia Detection in Water by Tin-Dioxide Optoelectronic Sensor. , 0, , .		2