

Oleg Lupan

List of Publications by Year in descending order

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papers

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Growth of Freestanding ZnO Tetrapod Networks for Multifunctional Applications in Photocatalysis, UV Photodetection, and Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14303-14316.	4.0	433
2	Sensing characteristics of tin-doped ZnO thin films as NO ₂ gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 379-386.	4.0	431
3	Rapid Fabrication Technique for Interpenetrated ZnO Nanotetrapod Networks for Fast UV Sensors. <i>Advanced Materials</i> , 2014, 26, 1541-1550.	11.1	428
4	Selective hydrogen gas nanosensor using individual ZnO nanowire with fast response at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 56-66.	4.0	418
5	Effects of annealing on properties of ZnO thin films prepared by electrochemical deposition in chloride medium. <i>Applied Surface Science</i> , 2010, 256, 1895-1907.	3.1	418
6	Effect of synthesis conditions on the growth of ZnO nanorods via hydrothermal method. <i>Physica B: Condensed Matter</i> , 2008, 403, 3713-3717.	1.3	370
7	Novel hydrogen gas sensor based on single ZnO nanorod. <i>Microelectronic Engineering</i> , 2008, 85, 2220-2225.	1.1	320
8	Low-voltage UV-Electroluminescence from ZnO-Nanowire Array/p-GaN Light-Emitting Diodes. <i>Advanced Materials</i> , 2010, 22, 3298-3302.	11.1	277
9	Well-aligned arrays of vertically oriented ZnO nanowires electrodeposited on ITO-coated glass and their integration in dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 211, 65-73.	2.0	250
10	Synthesis and characterization of ZnO nanowires for nanosensor applications. <i>Materials Research Bulletin</i> , 2010, 45, 1026-1032.	2.7	227
11	Synthesis and Characterization of Ag- or Sb-Doped ZnO Nanorods by a Facile Hydrothermal Route. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12401-12408.	1.5	227
12	Synthesis and characterization of Cu-doped ZnO one-dimensional structures for miniaturized sensor applications with faster response. <i>Sensors and Actuators A: Physical</i> , 2013, 189, 399-408.	2.0	227
13	A single ZnO tetrapod-based sensor. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 511-517.	4.0	195
14	Nanofabrication and characterization of ZnO nanorod arrays and branched microrods by aqueous solution route and rapid thermal processing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 145, 57-66.	1.7	178
15	Silver-doped zinc oxide single nanowire multifunctional nanosensor with a significant enhancement in response. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 893-903.	4.0	170
16	Novel NO ₂ gas sensor based on cuprous oxide thin films. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 468-476.	4.0	162
17	Synthesis, characterization and DFT studies of zinc-doped copper oxide nanocrystals for gas sensing applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6527-6539.	5.2	157
18	Single Step Integration of ZnO Nano- and Microneedles in Si Trenches by Novel Flame Transport Approach: Whispering Gallery Modes and Photocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7806-7815.	4.0	156

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19	Wavelength-Emission Tuning of ZnO Nanowire-Based Light-Emitting Diodes by Cu Doping: Experimental and Computational Insights. <i>Advanced Functional Materials</i> , 2011, 21, 3564-3572.	7.8	150
20	Highly sensitive and selective hydrogen single-nanowire nanosensor. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 772-780.	4.0	149
21	Fabrication of ZnO nanorod-based hydrogen gas nanosensor. <i>Microelectronics Journal</i> , 2007, 38, 1211-1216.	1.1	143
22	Enhanced ethanol vapour sensing performances of copper oxide nanocrystals with mixed phases. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 434-448.	4.0	140
23	Multifunctional Materials: A Case Study of the Effects of Metal Doping on ZnO Tetrapods with Bismuth and Tin Oxides. <i>Advanced Functional Materials</i> , 2017, 27, 1604676.	7.8	140
24	Crossed zinc oxide nanorods for ultraviolet radiation detection. <i>Sensors and Actuators A: Physical</i> , 2009, 150, 184-187.	2.0	136
25	Hybridization of Zinc Oxide Tetrapods for Selective Gas Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4084-4099.	4.0	135
26	Characterization of gallium-doped CdS thin films grown by chemical bath deposition. <i>Applied Surface Science</i> , 2009, 255, 4129-4134.	3.1	134
27	A rapid hydrothermal synthesis of rutile SnO ₂ nanowires. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 157, 101-104.	1.7	125
28	Single and Networked ZnO-CNT Hybrid Tetrapods for Selective Room-Temperature High-Performance Ammonia Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23107-23118.	4.0	125
29	Epitaxial Electrodeposition of ZnO Nanowire Arrays on p-GaN for Efficient UV-Light-Emitting Diode Fabrication. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2083-2090.	4.0	122
30	Nanostructured zinc oxide films synthesized by successive chemical solution deposition for gas sensor applications. <i>Materials Research Bulletin</i> , 2009, 44, 63-69.	2.7	120
31	Ultra-sensitive and selective hydrogen nanosensor with fast response at room temperature based on a single Pd/ZnO nanowire. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 1259-1270.	4.0	118
32	Nanostructured zinc oxide gas sensors by successive ionic layer adsorption and reaction method and rapid photothermal processing. <i>Thin Solid Films</i> , 2008, 516, 3338-3345.	0.8	116
33	Three-Dimensional SnO ₂ Nanowire Networks for Multifunctional Applications: From High-Temperature Stretchable Ceramics to Ultrasensitive Sensors. <i>Advanced Electronic Materials</i> , 2015, 1, 1500081.	2.6	116
34	Versatile Growth of Freestanding Orthorhombic \pm -Molybdenum Trioxide Nano- and Microstructures by Rapid Thermal Processing for Gas Nanosensors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15068-15078.	1.5	114
35	PdO/PdO ₂ functionalized ZnO:Ag:Ag:Ag films for lower operating temperature H ₂ gas sensing. <i>Nanoscale</i> , 2018, 10, 14107-14127.	2.8	114
36	Versatile Fabrication of Complex Shaped Metal Oxide Nano-Microstructures and Their Interconnected Networks for Multifunctional Applications. <i>KONA Powder and Particle Journal</i> , 2014, 31, 92-110.	0.9	113

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37	Localized Synthesis of Iron Oxide Nanowires and Fabrication of High Performance Nanosensors Based on a Single Fe ₂ O ₃ Nanowire. <i>Small</i> , 2017, 13, 1602868.	5.2	111
38	Synthesis of nanostructured Al-doped zinc oxide films on Si for solar cells applications. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1417-1422.	3.0	109
39	Single and networked CuO nanowires for highly sensitive p-type semiconductor gas sensor applications. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 260-266.	1.2	96
40	Investigation of chemical bath deposition of CdO thin films using three different complexing agents. <i>Applied Surface Science</i> , 2011, 257, 9237-9242.	3.1	91
41	Investigation of aluminium and indium <i>in situ</i> doping of chemical bath deposited CdS thin films. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 185304.	1.3	89
42	Eu-doped ZnO nanowire arrays grown by electrodeposition. <i>Applied Surface Science</i> , 2013, 282, 782-788.	3.1	89
43	Fabrication and characterization of ZnO core-shell microspheres from nanorods. <i>Chemical Physics Letters</i> , 2008, 465, 249-253.	1.2	86
44	Focused-ion-beam fabrication of ZnO nanorod-based UV photodetector using the <i>in situ lift-out</i> technique. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2673-2678.	0.8	85
45	Ultraviolet photoconductive sensor based on single ZnO nanowire. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1735-1740.	0.8	83
46	Electrodeposition of Cu-doped ZnO nanowire arrays and heterojunction formation with p-GaN for color tunable light emitting diode applications. <i>Electrochimica Acta</i> , 2011, 56, 10543-10549.	2.6	83
47	Porous ceramics based on hybrid inorganic tetrapodal networks for efficient photocatalysis and water purification. <i>Ceramics International</i> , 2017, 43, 14915-14922.	2.3	78
48	Tuning ZnO Sensors Reactivity toward Volatile Organic Compounds via Ag Doping and Nanoparticle Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31452-31466.	4.0	78
49	Investigation of chemical bath deposition of ZnO thin films using six different complexing agents. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 135304.	1.3	73
50	Functionalized individual ZnO microwire for natural gas detection. <i>Sensors and Actuators A: Physical</i> , 2012, 176, 64-71.	2.0	73
51	Multifunctional device based on ZnO:Fe nanostructured films with enhanced UV and ultra-fast ethanol vapour sensing. <i>Materials Science in Semiconductor Processing</i> , 2016, 49, 20-33.	1.9	73
52	Non-planar nanoscale p heterojunctions formation in Zn Cu ₁₀ O nanocrystals by mixed phases for enhanced sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 832-843.	4.0	70
53	High Aspect Ratio Ternary Zn _{1-x} Cd _x O Nanowires by Electrodeposition for Light-Emitting Diode Applications. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14548-14558.	1.5	69
54	Synthesis of one-dimensional SnO ₂ nanorods via a hydrothermal technique. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 533-536.	1.3	68

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55	Three-dimensional flexible ceramics based on interconnected network of highly porous pure and metal alloyed ZnO tetrapods. <i>Ceramics International</i> , 2016, 42, 8664-8676.	2.3	66
56	Low-Temperature Preparation of Ag-Doped ZnO Nanowire Arrays, DFT Study, and Application to Light-Emitting Diode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11871-11880.	4.0	65
57	Hydrothermal treatment for the marked structural and optical quality improvement of ZnO nanowire arrays deposited on lightweight flexible substrates. <i>Journal of Crystal Growth</i> , 2010, 312, 2454-2458.	0.7	64
58	Rapid switching and ultra-responsive nanosensors based on individual shell-core Ga ₂ O ₃ /GaN:O@SnO ₂ nanobelt with nanocrystalline shell in mixed phases. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 544-555.	4.0	62
59	Influence of CuO nanostructures morphology on hydrogen gas sensing performances. <i>Microelectronic Engineering</i> , 2016, 164, 63-70.	1.1	62
60	Facile fabrication of semiconducting oxide nanostructures by direct ink writing of readily available metal microparticles and their application as low power acetone gas sensors. <i>Nano Energy</i> , 2020, 70, 104420.	8.2	62
61	Sacrificial Template Synthesis and Properties of 3D Hollow-Silicon Nano- and Microstructures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20491-20498.	4.0	60
62	Complex shaped ZnO nano- and microstructure based polymer composites: mechanically stable and environmentally friendly coatings for potential antifouling applications. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7114-7123.	1.3	60
63	Low-Temperature Growth of ZnO Nanowire Arrays on p-Silicon (111) for Visible-Light-Emitting Diode Fabrication. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14781-14785.	1.5	58
64	Integration of individual TiO ₂ nanotube on the chip: Nanodevice for hydrogen sensing. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 171-174.	1.2	56
65	Sensing performances of pure and hybridized carbon nanotubes-ZnO nanowire networks: A detailed study. <i>Scientific Reports</i> , 2017, 7, 14715.	1.6	56
66	Highly selective and ultra-low power consumption metal oxide based hydrogen gas sensor employing graphene oxide as molecular sieve. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128363.	4.0	56
67	Growth of tetragonal SnO ₂ microcubes and their characterization. <i>Journal of Crystal Growth</i> , 2008, 311, 152-155.	0.7	54
68	Self-assembly of densely packed and aligned bilayer ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	52
69	3D-Printed Chemiresistive Sensor Array on Nanowire CuO/Cu ₂ O/Cu Heterojunction Nets. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25508-25515.	4.0	52
70	Zinc oxide nanotetrapods with four different arm morphologies for versatile nanosensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 425-435.	4.0	50
71	Low powered, tunable and ultra-light aerographite sensor for climate relevant gas monitoring. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16723-16730.	5.2	49
72	Low-Temperature Solution Synthesis of Au-Modified ZnO Nanowires for Highly Efficient Hydrogen Nanosensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32115-32126.	4.0	49

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73	Chemical bath deposition of SnO ₂ and Cd ₂ SnO ₄ thin films. Applied Surface Science, 2012, 258, 6069-6074.	3.1	47
74	(CuO-Cu ₂ O)/ZnO:Al heterojunctions for volatile organic compound detection. Sensors and Actuators B: Chemical, 2018, 255, 1362-1375.	4.0	47
75	Enhanced UV and ethanol vapour sensing of a single 3-D ZnO tetrapod alloyed with Fe ₂ O ₃ nanoparticles. Sensors and Actuators B: Chemical, 2017, 245, 448-461.	4.0	46
76	Buckminsterfullerene hybridized zinc oxide tetrapods: defects and charge transfer induced optical and electrical response. Nanoscale, 2018, 10, 10050-10062.	2.8	44
77	Fabrication and characterization of an individual ZnO microwire-based UV photodetector. Solid State Sciences, 2011, 13, 1205-1210.	1.5	43
78	Nanofibrous-like ZnO layers deposited by magnetron sputtering and their integration in dye-sensitized solar cells. Chemical Physics Letters, 2012, 550, 125-129.	1.2	41
79	TiO ₂ /Cu ₂ O/CuO Multi-Nanolayers as Sensors for H ₂ and Volatile Organic Compounds: An Experimental and Theoretical Investigation. ACS Applied Materials & Interfaces, 2021, 13, 32363-32380.	4.0	39
80	Room temperature gas nanosensors based on individual and multiple networked Au-modified ZnO nanowires. Sensors and Actuators B: Chemical, 2019, 299, 126977.	4.0	38
81	Surface functionalization of ZnO:Ag columnar thin films with AgAu and AgPt bimetallic alloy nanoparticles as an efficient pathway for highly sensitive gas discrimination and early hazard detection in batteries. Journal of Materials Chemistry A, 2020, 8, 16246-16264.	5.2	38
82	Rapid thermal annealing induced change of the mechanism of multiphonon resonant Raman scattering from ZnO nanorods. Solid State Communications, 2007, 143, 437-441.	0.9	37
83	Comparative study of hydrothermal treatment and thermal annealing effects on the properties of electrodeposited micro-columnar ZnO thin films. Thin Solid Films, 2011, 519, 7738-7749.	0.8	37
84	Synthesis and characterization of electrodeposited samaria and samaria-doped ceria thin films. Electrochimica Acta, 2011, 56, 4638-4644.	2.6	37
85	Photoluminescence of chemical bath deposited ZnO:Al films treated by rapid thermal annealing. Thin Solid Films, 2005, 488, 15-19.	0.8	36
86	Tuning doping and surface functionalization of columnar oxide films for volatile organic compound sensing: experiments and theory. Journal of Materials Chemistry A, 2018, 6, 23669-23682.	5.2	36
87	Single CuO/Cu ₂ O/Cu Microwire Covered by a Nanowire Network as a Gas Sensor for the Detection of Battery Hazards. ACS Applied Materials & Interfaces, 2020, 12, 42248-42263.	4.0	36
88	Nitrogen oxides and ammonia sensing characteristics of SILAR deposited ZnO thin film. Superlattices and Microstructures, 2007, 42, 375-378.	1.4	35
89	Properties of a single SnO ₂ :Zn ₂ SnO ₄ Functionalized nanowire based nanosensor. Ceramics International, 2018, 44, 4859-4867.	2.3	34
90	Functionalized Pd/ZnO Nanowires for Nanosensors. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1700321.	1.2	33

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91	In-situ boron doping of chemical-bath deposited CdS thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 256-262.	0.8	32
92	Investigation of optical properties and electronic transitions in bulk and nano-microribbons of molybdenum trioxide. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 085302.	1.3	32
93	Nanomechanics of individual aerographite tetrapods. <i>Nature Communications</i> , 2017, 8, 14982.	5.8	32
94	Schottky Diode Based on a Single Carbon-Nanotube-ZnO Hybrid Tetrapod for Selective Sensing Applications. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700507.	1.9	32
95	Morphology dependent UV photoresponse of Sn-doped ZnO microstructures. <i>Solid State Sciences</i> , 2017, 71, 75-86.	1.5	32
96	FIB fabrication of ZnO nanotetrapod and cross-sensor. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1628-1632.	0.7	31
97	Optical properties of ZnO nanowire arrays electrodeposited on n- and p-type Si(111): Effects of thermal annealing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1277-1284.	1.7	30
98	UV detection properties of hybrid ZnO tetrapod 3-D networks. <i>Vacuum</i> , 2017, 146, 492-500.	1.6	30
99	Ultra-thin TiO ₂ films by atomic layer deposition and surface functionalization with Au nanodots for sensing applications. <i>Materials Science in Semiconductor Processing</i> , 2018, 87, 44-53.	1.9	30
100	Controlled Mixed Violet-Blue-Red Electroluminescence from Eu:Nano-Phosphors/ZnO-Nanowires/p-GaN Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26768-26775.	1.5	29
101	Nanostructures of Metal Oxides. , 2011, , 396-479.		28
102	Comparative study of the ZnO and Zn _{1-x} Cd _x O nanorod emitters hydrothermally synthesized and electrodeposited on p-GaN. <i>Applied Surface Science</i> , 2012, 259, 399-405.	3.1	28
103	Size-dependent UV and gas sensing response of individual Fe ₂ O ₃ -ZnO:Fe micro- and nanowire based devices. <i>Journal of Alloys and Compounds</i> , 2017, 701, 920-925.	2.8	28
104	Individual hollow and mesoporous aero-graphitic microtube based devices for gas sensing applications. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	26
105	Biopolymer-assisted self-assembly of ZnO nanoarchitectures from nanorods. <i>Superlattices and Microstructures</i> , 2008, 43, 292-302.	1.4	25
106	Electrochemical synthesis and characterization of nanorods, nanocolumnar ceria based thin films on different glass substrates. <i>Chemical Physics Letters</i> , 2010, 494, 237-242.	1.2	24
107	Improved Long-Term Stability and Reduced Humidity Effect in Gas Sensing: SiO ₂ Ultra-Thin Layered ZnO Columnar Films. <i>Advanced Materials Technologies</i> , 2021, 6, 2001137.	3.0	24
108	The effect of morphology and functionalization on UV detection properties of ZnO networked tetrapods and single nanowires. <i>Vacuum</i> , 2019, 166, 393-398.	1.6	22

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109	Highly luminescent columnar ZnO films grown directly on n-Si and p-Si substrates by low-temperature electrochemical deposition. <i>Optical Materials</i> , 2011, 33, 914-919.	1.7	21
110	Effect of samarium addition and annealing on the properties of electrodeposited ceria thin films. <i>Thin Solid Films</i> , 2011, 519, 3538-3543.	0.8	21
111	Tailoring the selectivity of ultralow-power heterojunction gas sensors by noble metal nanoparticle functionalization. <i>Nano Energy</i> , 2021, 88, 106241.	8.2	21
112	The impact of O ₂ /Ar ratio on morphology and functional properties in reactive sputtering of metal oxide thin films. <i>Nanotechnology</i> , 2019, 30, 235603.	1.3	20
113	UV-Blue and Green Electroluminescence from Cu-Doped ZnO Nanorod Emitters Hydrothermally Synthesized on p-GaN. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2012, 7, 712-718.	0.1	20
114	Oxide planar p-n heterojunction prepared by low temperature solution growth for UV-photodetector applications. <i>RSC Advances</i> , 2016, 6, 68254-68260.	1.7	19
115	UV nanophotodetectors: A case study of individual Au-modified ZnO nanowires. <i>Sensors and Actuators A: Physical</i> , 2019, 296, 400-408.	2.0	19
116	Effect of noble metal functionalization and film thickness on sensing properties of sprayed TiO ₂ ultra-thin films. <i>Sensors and Actuators A: Physical</i> , 2019, 293, 242-258.	2.0	19
117	Concept and modelling of memsensors as two terminal devices with enhanced capabilities in neuromorphic engineering. <i>Scientific Reports</i> , 2019, 9, 4361.	1.6	19
118	Al-Doped ZnO Nanowires by Electrochemical Deposition for Selective VOC Nanosensor and Nanophotodetector. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700824.	0.8	17
119	Heterostructure-based devices with enhanced humidity stability for H ₂ gas sensing applications in breath tests and portable batteries. <i>Sensors and Actuators A: Physical</i> , 2021, 329, 112804.	2.0	17
120	Optical properties of Sm-doped ceria nanostructured films grown by electrodeposition at low temperature. <i>Optical Materials</i> , 2012, 34, 1897-1901.	1.7	16
121	ZnAl ₂ O ₄ -Functionalized Zinc Oxide Microstructures for Highly Selective Hydrogen Gas Sensing Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700772.	0.8	16
122	Samarium-Doped Ceria Nanostructured Thin Films Grown on FTO Glass by Electrodeposition. <i>Acta Physica Polonica A</i> , 2011, 120, 298-302.	0.2	16
123	Properties of SiO ₂ thin films prepared by anodic oxidation under UV illumination and rapid photothermal processing. <i>Electrochimica Acta</i> , 2004, 49, 4433-4438.	2.6	15
124	Synthesis and Characterization of Functional Nanostructured Zinc Oxide Thin Films. <i>ECS Transactions</i> , 2006, 3, 65-71.	0.3	15
125	Al ₂ O ₃ /ZnO Heterostructure-Based Sensors for Volatile Organic Compounds in Safety Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29331-29344.	4.0	15
126	Comparison of Thermal Annealing versus Hydrothermal Treatment Effects on the Detection Performances of ZnO Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10537-10552.	4.0	14

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127	Characterization of liposomes and silica nanoparticles using resistive pulse method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 448, 9-15.	2.3	12
128	Control of persistent photoconductivity in nanostructured InP through morphology design. Semiconductor Science and Technology, 2015, 30, 035014.	1.0	12
129	Tunable electroluminescence from low-threshold voltage LED structure based on electrodeposited Zn _{1-x} Cd _x O nanorods/p-GaN heterojunction. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 359-363.	0.8	11
130	Synthesis and optical properties of Ga ₂ O ₃ nanowires grown on GaS substrate. Thin Solid Films, 2019, 689, 137502.	0.8	9
131	Crystallinity and optical properties of Γ^2 -Ga ₂ O ₃ /Ga ₂ S ₃ layered structure obtained by thermal annealing of Ga ₂ S ₃ semiconductor. Materials Science in Semiconductor Processing, 2021, 121, 105314.	1.9	9
132	Magnetron Sputtering and Characterization of Doped Zinc Oxide Nanofibrous Films and Their Applications. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 257-264.	0.1	9
133	Individual CdS-covered aerographite microtubes for room temperature VOC sensing with high selectivity. Materials Science in Semiconductor Processing, 2019, 100, 275-282.	1.9	8
134	Improving gas sensing by CdTe decoration of individual Aerographite microtubes. Nanotechnology, 2019, 30, 065501.	1.3	8
135	Sensing performance of CuO/Cu ₂ O/ZnO:Fe heterostructure coated with thermally stable ultrathin hydrophobic PV3D3 polymer layer for battery application. Materials Today Chemistry, 2022, 23, 100642.	1.7	8
136	Directional and magnetic field enhanced emission of Cu-doped ZnO nanowires/p-GaN heterojunction light-emitting diodes. Journal of Nanophotonics, 2011, 5, 051816.	0.4	7
137	Synthesis and gas sensor applications of nanostructured ZnO grown at low temperatures. Turkish Journal of Physics, 2014, 38, 399-419.	0.5	7
138	Photoluminescence and Raman Study of Well-Aligned ZnO Nanorods on p-Si Substrate. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 473-477.	0.1	7
139	Effect of Sn Dopant on the Properties of ZnO Nanorod Arrays. Semiconductor Conference, 2009 CAS 2009 International, 2007, , .	0.0	5
140	Additive Manufacturing as a Means of Gas Sensor Development for Battery Health Monitoring. Chemosensors, 2021, 9, 252.	1.8	5
141	Neutron Transmutation Doping and Radiation Hardness for Solution-Grown Bulk and Nano-Structured ZnO. Materials Research Society Symposia Proceedings, 2008, 1108, 1.	0.1	4
142	Microsensor on single ZnO microwire. , 2009, , .		4
143	Electrochemical and Hydrothermal Synthesis of Epitaxial Arrays of Doped ZnO Nanowire Emitters for Light Emitting Diodes With Tunable Emission From Near-UV to Blue. ECS Transactions, 2013, 58, 17-22.	0.3	4
144	Electrochemical synthesis and properties of ceria films grown on stainless steel. Russian Journal of Physical Chemistry A, 2011, 85, 2358-2362.	0.1	3

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145	Optical and sensory properties of ZnO nanofibrous layers grown by magnetron sputtering. , 2012, , .		3
146	Controlling the properties of electrodeposited ZnO nanowire arrays for light emitting diode, photodetector and gas sensor applications. Proceedings of SPIE, 2014, , .	0.8	3
147	Blue-red electroluminescence from hybrid Eu:phosphors/ZnO-nanowires/p-GaN LED. , 2014, , .		3
148	Hydrogen Gas Sensor Based on Nanograined Pd/±-M003 Belts. IFMBE Proceedings, 2016, , 361-364.	0.2	3
149	Integration of Metal and Metal Oxide Nanowires Directly on Chip by Top-Down Technology and Their Electrical Characteristics. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 239-246.	0.1	3
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