

Oleg Lupan

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163
papers

9,597
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55
h-index

94
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197
ext. papers

10,708
ext. citations

5.2
avg, IF

6.11
L-index

#	Paper	IF	Citations
163	Rapid fabrication technique for interpenetrated ZnO nanotetrapod networks for fast UV sensors. <i>Advanced Materials</i> , 2014 , 26, 1541-50	24	377
162	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, 14303-16	9.5	368
161	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	8.5	367
160	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	6.7	367
159	Sensing characteristics of tin-doped ZnO thin films as NO ₂ gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 379-386	8.5	365
158	Effect of synthesis conditions on the growth of ZnO nanorods via hydrothermal method. <i>Physica B: Condensed Matter</i> , 2008 , 403, 3713-3717	2.8	316
157	Novel hydrogen gas sensor based on single ZnO nanorod. <i>Microelectronic Engineering</i> , 2008 , 85, 2220-2225		270
156	Low-voltage UV-electroluminescence from ZnO-nanowire Array/p-GaN light-emitting diodes. <i>Advanced Materials</i> , 2010 , 22, 3298-302	24	257
155	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	4.7	225
154	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	3.8	196
153	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	3.9	185
152	Synthesis and characterization of ZnO nanowires for nanosensor applications. <i>Materials Research Bulletin</i> , 2010 , 45, 1026-1032	5.1	182
151	A single ZnO tetrapod-based sensor. <i>Sensors and Actuators B: Chemical</i> , 2009 , 141, 511-517	8.5	169
150	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	3.1	152
149	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	8.5	145
148	Novel NO ₂ gas sensor based on cuprous oxide thin films. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 468-476	8.5	145
147	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, 7806-15	9.5	141

146	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	15.6	138
145	Fabrication of ZnO nanorod-based hydrogen gas nanosensor. <i>Microelectronics Journal</i> , 2007 , 38, 1211-1218	12.8	129
144	Highly sensitive and selective hydrogen single-nanowire nanosensor. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 772-780	8.5	128
143	Enhanced ethanol vapour sensing performances of copper oxide nanocrystals with mixed phases. <i>Sensors and Actuators B: Chemical</i> , 2016 , 224, 434-448	8.5	120
142	Characterization of gallium-doped CdS thin films grown by chemical bath deposition. <i>Applied Surface Science</i> , 2009 , 255, 4129-4134	6.7	119
141	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	13	119
140	Crossed zinc oxide nanorods for ultraviolet radiation detection. <i>Sensors and Actuators A: Physical</i> , 2009 , 150, 184-187	3.9	118
139	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	3.1	115
138	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	9.5	113
137	Hybridization of Zinc Oxide Tetrapods for Selective Gas Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4084-4099	9.5	110
136	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	6.4	104
135	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	15.6	101
134	Nanostructured zinc oxide films synthesized by successive chemical solution deposition for gas sensor applications. <i>Materials Research Bulletin</i> , 2009 , 44, 63-69	5.1	100
133	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	2.2	100
132	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	6.4	98
131	Versatile Growth of Freestanding Orthorhombic Molybdenum Trioxide Nano- and Microstructures by Rapid Thermal Processing for Gas Nanosensors. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15068-15078	3.8	95
130	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	3.4	95
129	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	9.5	93

128	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	8.5	91
127	Investigation of chemical bath deposition of CdO thin films using three different complexing agents. <i>Applied Surface Science</i> , 2011 , 257, 9237-9242	6.7	78
126	Investigation of aluminium and indium situdoping of chemical bath deposited CdS thin films. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 185304	3	78
125	Focused-ion-beam fabrication of ZnO nanorod-based UV photodetector using the in-situ lift-out technique. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 2673-2678	1.6	77
124	Localized Synthesis of Iron Oxide Nanowires and Fabrication of High Performance Nanosensors Based on a Single Fe O Nanowire. <i>Small</i> , 2017 , 13, 1602868	11	76
123	Eu-doped ZnO nanowire arrays grown by electrodeposition. <i>Applied Surface Science</i> , 2013 , 282, 782-788	6.7	76
122	PdO/PdO functionalized ZnO : Pd films for lower operating temperature H gas sensing. <i>Nanoscale</i> , 2018 , 10, 14107-14127	7.7	76
121	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	2.5	75
120	Fabrication and characterization of Zn $\sqrt{2}$ nO core-shell microspheres from nanorods. <i>Chemical Physics Letters</i> , 2008 , 465, 249-253	2.5	74
119	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	6.7	71
118	Ultraviolet photoconductive sensor based on single ZnO nanowire. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1735-1740	1.6	68
117	Porous ceramics based on hybrid inorganic tetrapodal networks for efficient photocatalysis and water purification. <i>Ceramics International</i> , 2017 , 43, 14915-14922	5.1	67
116	Functionalized individual ZnO microwire for natural gas detection. <i>Sensors and Actuators A: Physical</i> , 2012 , 176, 64-71	3.9	63
115	Investigation of chemical bath deposition of ZnO thin films using six different complexing agents. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 135304	3	63
114	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	4.3	62
113	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	3.8	61
112	Synthesis of one-dimensional SnO ₂ nanorods via a hydrothermal technique. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 533-536	3	60
111	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	1.6	60

110	Rapid switching and ultra-responsive nanosensors based on individual shell@SnO ₂ nanobelt with nanocrystalline shell in mixed phases. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 544-555	8.5	58
109	Non-planar nanoscale p-n heterojunctions formation in Zn/Cu _{1-x} O nanocrystals by mixed phases for enhanced sensors. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 832-843	8.5	56
108	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	5.1	54
107	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, 11871-80	9.5	53
106	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	3.8	50
105	Sacrificial Template Synthesis and Properties of 3D Hollow-Silicon Nano- and Microstructures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20491-8	9.5	49
104	Growth of tetragonal SnO ₂ microcubes and their characterization. <i>Journal of Crystal Growth</i> , 2008 , 311, 152-155	1.6	48
103	Influence of CuO nanostructures morphology on hydrogen gas sensing performances. <i>Microelectronic Engineering</i> , 2016 , 164, 63-70	2.5	47
102	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, 7114-23	3.6	45
101	Sensing performances of pure and hybridized carbon nanotubes-ZnO nanowire networks: A detailed study. <i>Scientific Reports</i> , 2017 , 7, 14715	4.9	45
100	Self-assembly of densely packed and aligned bilayer ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2009 , 94, 163105	3.4	45
99	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	2.5	44
98	Zinc oxide nanotetrapods with four different arm morphologies for versatile nanosensors. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 425-435	8.5	44
97	Tuning ZnO Sensors Reactivity toward Volatile Organic Compounds via Ag Doping and Nanoparticle Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31452-31466	9.5	43
96	Chemical bath deposition of SnO ₂ and Cd ₂ SnO ₄ thin films. <i>Applied Surface Science</i> , 2012 , 258, 6069-6074	6.7	41
95	Enhanced UV and ethanol vapour sensing of a single 3-D ZnO tetrapod alloyed with Fe ₂ O ₃ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 448-461	8.5	39
94	Low powered, tunable and ultra-light aerographite sensor for climate relevant gas monitoring. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16723-16730	13	38
93	(CuO-Cu ₂ O)/ZnO:Al heterojunctions for volatile organic compound detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1362-1375	8.5	36

92	Fabrication and characterization of an individual ZnO microwire-based UV photodetector. <i>Solid State Sciences</i> , 2011 , 13, 1205-1210	3.4	36
91	Buckminsterfullerene hybridized zinc oxide tetrapods: defects and charge transfer induced optical and electrical response. <i>Nanoscale</i> , 2018 , 10, 10050-10062	7.7	35
90	Synthesis and characterization of electrodeposited samaria and samaria-doped ceria thin films. <i>Electrochimica Acta</i> , 2011 , 56, 4638-4644	6.7	34
89	Comparative study of hydrothermal treatment and thermal annealing effects on the properties of electrodeposited micro-columnar ZnO thin films. <i>Thin Solid Films</i> , 2011 , 519, 7738-7749	2.2	33
88	Photoluminescence of chemical bath deposited ZnO:Al films treated by rapid thermal annealing. <i>Thin Solid Films</i> , 2005 , 488, 15-19	2.2	33
87	Rapid thermal annealing induced change of the mechanism of multiphonon resonant Raman scattering from ZnO nanorods. <i>Solid State Communications</i> , 2007 , 143, 437-441	1.6	32
86	Low-Temperature Solution Synthesis of Au-Modified ZnO Nanowires for Highly Efficient Hydrogen Nanosensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32115-32126	9.5	29
85	Nanofibrous-like ZnO layers deposited by magnetron sputtering and their integration in dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2012 , 550, 125-129	2.5	29
84	Nitrogen oxides and ammonia sensing characteristics of SILAR deposited ZnO thin film. <i>Superlattices and Microstructures</i> , 2007 , 42, 375-378	2.8	29
83	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	3.8	28
82	Morphology dependent UV photoresponse of Sn-doped ZnO microstructures. <i>Solid State Sciences</i> , 2017 , 71, 75-86	3.4	28
81	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	5.7	27
80	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	3	27
79	Schottky Diode Based on a Single Carbon Nanotube/ZnO Hybrid Tetrapod for Selective Sensing Applications. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700507	4.6	27
78	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	6.7	27
77	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	1.6	27
76	FIB fabrication of ZnO nanotetrapod and cross-sensor. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1628-1632	1.3	27
75	Functionalized Pd/ZnO Nanowires for Nanosensors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700321	2.5	27

74	Tuning doping and surface functionalization of columnar oxide films for volatile organic compound sensing: experiments and theory. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23669-23682	13	27
73	Nanomechanics of individual aerographite tetrapods. <i>Nature Communications</i> , 2017 , 8, 14982	17.4	26
72	Properties of a single SnO ₂ :Zn ₂ SnO ₄ [Functionalized nanowire based nanosensor. <i>Ceramics International</i> , 2018 , 44, 4859-4867	5.1	26
71	3D-Printed Chemiresistive Sensor Array on Nanowire CuO/CuO/Cu Heterojunction Nets. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25508-25515	9.5	25
70	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	8.5	25
69	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	17.1	25
68	Room temperature gas nanosensors based on individual and multiple networked Au-modified ZnO nanowires. <i>Sensors and Actuators B: Chemical</i> , 2019 , 299, 126977	8.5	24
67	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	3.1	24
66	Biopolymer-assisted self-assembly of ZnO nanoarchitectures from nanorods. <i>Superlattices and Microstructures</i> , 2008 , 43, 292-302	2.8	24
65	UV detection properties of hybrid ZnO tetrapod 3-D networks. <i>Vacuum</i> , 2017 , 146, 492-500	3.7	22
64	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. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16246-16264	13	22
63	Individual hollow and mesoporous aero-graphitic microtube based devices for gas sensing applications. <i>Applied Physics Letters</i> , 2017 , 110, 263109	3.4	22
62	Effect of samarium addition and annealing on the properties of electrodeposited ceria thin films. <i>Thin Solid Films</i> , 2011 , 519, 3538-3543	2.2	21
61	Electrochemical synthesis and characterization of nanorods, nanocolumnar ceria [based thin films on different glass substrates. <i>Chemical Physics Letters</i> , 2010 , 494, 237-242	2.5	21
60	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	3.3	20
59	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	1.3	19
58	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	4.3	18
57	Nanostructures of Metal Oxides 2011 , 396-479		18

56	Single CuO/CuO/Cu Microwire Covered by a Nanowire Network as a Gas Sensor for the Detection of Battery Hazards. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42248-42263	9.5	17
55	Samarium-Doped Ceria Nanostructured Thin Films Grown on FTO Glass by Electrodeposition. <i>Acta Physica Polonica A</i> , 2011 , 120, 298-302	0.6	16
54	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	6.7	15
53	The effect of morphology and functionalization on UV detection properties of ZnO networked tetrapods and single nanowires. <i>Vacuum</i> , 2019 , 166, 393-398	3.7	15
52	The impact of O/Ar ratio on morphology and functional properties in reactive sputtering of metal oxide thin films. <i>Nanotechnology</i> , 2019 , 30, 235603	3.4	14
51	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	1.6	14
50	Oxide planar p-n heterojunction prepared by low temperature solution growth for UV-photodetector applications. <i>RSC Advances</i> , 2016 , 6, 68254-68260	3.7	13
49	Optical properties of Sm-doped ceria nanostructured films grown by electrodeposition at low temperature. <i>Optical Materials</i> , 2012 , 34, 1897-1901	3.3	13
48	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	3.9	12
47	Synthesis and Characterization of Functional Nanostructured Zinc Oxide Thin Films. <i>ECS Transactions</i> , 2006 , 3, 65-71	1	12
46	UV nanophotodetectors: A case study of individual Au-modified ZnO nanowires. <i>Sensors and Actuators A: Physical</i> , 2019 , 296, 400-408	3.9	11
45	Tunable electroluminescence from low-threshold voltage LED structure based on electrodeposited Zn _{1-x} Cd _x O-nanorods/p-GaN heterojunction. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 359-363	1.6	11
44	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	1.6	10
43	Concept and modelling of memsensors as two terminal devices with enhanced capabilities in neuromorphic engineering. <i>Scientific Reports</i> , 2019 , 9, 4361	4.9	9
42	Control of persistent photoconductivity in nanostructured InP through morphology design. <i>Semiconductor Science and Technology</i> , 2015 , 30, 035014	1.8	9
41	TiO/CuO/CuO Multi-Nanolayers as Sensors for H and Volatile Organic Compounds: An Experimental and Theoretical Investigation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32363-32380	9.5	9
40	Characterization of liposomes and silica nanoparticles using resistive pulse method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 448, 9-15	5.1	8
39	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	6.8	8

38	Individual CdS-covered aerographite microtubes for room temperature VOC sensing with high selectivity. <i>Materials Science in Semiconductor Processing</i> , 2019 , 100, 275-282	4.3	7
37	Directional and magnetic field enhanced emission of Cu-doped ZnO nanowires/p-GaN heterojunction light-emitting diodes. <i>Journal of Nanophotonics</i> , 2011 , 5, 051816	1.1	7
36	Synthesis and gas sensor applications of nanostructured ZnO grown at low temperatures. <i>Turkish Journal of Physics</i> , 2014 , 38, 399-419	1.6	6
35	Photoluminescence and Raman Study of Well-Aligned ZnO Nanorods on p-Si Substrate. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011 , 6, 473-477	1.3	6
34	Magnetron Sputtering and Characterization of Doped Zinc Oxide Nanofibrous Films and Their Applications. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014 , 9, 257-264	1.3	6
33	Synthesis and optical properties of Ga ₂ O ₃ nanowires grown on GaS substrate. <i>Thin Solid Films</i> , 2019 , 689, 137502	2.2	5
32	Improving gas sensing by CdTe decoration of individual Aerographite microtubes. <i>Nanotechnology</i> , 2019 , 30, 065501	3.4	5
31	Comparison of Thermal Annealing Hydrothermal Treatment Effects on the Detection Performances of ZnO Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10537-10552	9.5	5
30	Tailoring the selectivity of ultralow-power heterojunction gas sensors by noble metal nanoparticle functionalization. <i>Nano Energy</i> , 2021 , 88, 106241	17.1	5
29	Electrochemical and Hydrothermal Synthesis of Epitaxial Arrays of Doped ZnO Nanowire Emitters for Light Emitting Diodes With Tunable Emission From Near-UV to Blue. <i>ECS Transactions</i> , 2013 , 58, 17-22 ¹		4
28	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	3.9	4
27	Controlling the properties of electrodeposited ZnO nanowire arrays for light emitting diode, photodetector and gas sensor applications 2014 ,		3
26	Electrochemical synthesis and properties of ceria films grown on stainless steel. <i>Russian Journal of Physical Chemistry A</i> , 2011 , 85, 2358-2362	0.7	3
25	Integration of Metal and Metal Oxide Nanowires Directly on Chip by Top-Down Technology and Their Electrical Characteristics. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014 , 9, 239-246	1.3	3
24	Blue-red electroluminescence from hybrid Eu:phosphors/ZnO-nanowires/p-GaN LED 2014 ,		2
23	Toward blue emission in ZnO based LED 2012 ,		2
22	Neutron Transmutation Doping and Radiation Hardness for Solution-Grown Bulk and Nano-Structured ZnO. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1108, 1		2
21	Effect of Sn Dopant on the Properties of ZnO Nanorod Arrays. <i>Semiconductor Conference, 2009 CAS 2009 International</i> , 2007 ,		2

20	Crystallinity and optical properties of Ga ₂ O ₃ /Ga ₂ S ₃ layered structure obtained by thermal annealing of Ga ₂ S ₃ semiconductor. <i>Materials Science in Semiconductor Processing</i> , 2021 , 121, 105314	4.3	2
19	Additive Manufacturing as a Means of Gas Sensor Development for Battery Health Monitoring. <i>Chemosensors</i> , 2021 , 9, 252	4	2
18	Sensing Properties of Ultra-Thin TiO ₂ Nanostructured Films Based Sensors. <i>IFMBE Proceedings</i> , 2016 , 149-152	0.2	1
17	UV radiation and CH ₄ gas detection with a single ZnO:Pd nanowire 2017 ,		1
16	Nanosensors: Multifunctional Materials: A Case Study of the Effects of Metal Doping on ZnO Tetrapods with Bismuth and Tin Oxides (Adv. Funct. Mater. 6/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
15	Nanowire Networks: Three-Dimensional SnO ₂ Nanowire Networks for Multifunctional Applications: From High-Temperature Stretchable Ceramics to Ultrasensitive Sensors (Adv. Electron. Mater. 8/2015). <i>Advanced Electronic Materials</i> , 2015 , 1, n/a-n/a	6.4	1
14	Effect of Al Sn Doping on properties of zinc oxide nanostructured films grown by magnetron sputtering 2013 ,		1
13	Rapid hydrothermal synthesis of zinc oxide nanorods on single crystal sapphire substrate 2011 ,		1
12	Optical and sensory properties of ZnO nanofibrous layers grown by magnetron sputtering 2012 ,		1
11	Impact of Rapid Photothermal Processing on Properties of ZnO Nanostructures for Solar Cell Applications		1
10	Mechanical and Wetting Properties of Three-Dimensional Flexible Tetrapodal ZnO Networks ALD-Coated with Al ₂ O ₃ . <i>IFMBE Proceedings</i> , 2020 , 263-267	0.2	1
9	Individual Bi ₂ O ₃ -Functionalized ZnO Microwire for Hydrogen Gas Detection. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2018 , 445-450	0.2	1
8	Sensing performance of CuO/Cu ₂ O/ZnO:Fe heterostructure coated with thermally stable ultrathin hydrophobic PV3D3 polymer layer for battery application. <i>Materials Today Chemistry</i> , 2022 , 23, 100642	6.2	0
7	Photocatalytic Applications of Doped Zinc Oxide Porous Films Grown by Magnetron Sputtering. <i>IFMBE Proceedings</i> , 2016 , 353-356	0.2	
6	Effect of Dopant on Selectivity of CuO Nanostructured Films Based Sensors. <i>IFMBE Proceedings</i> , 2016 , 349-352	0.2	
5	Electrical Characterization of Individual Boron Nitride Nanowall Structures. <i>IFMBE Proceedings</i> , 2022 , 17-23	0.2	
4	Acetone Sensing Properties of Nanostructured Copper Oxide Films on Glass Substrate. <i>IFMBE Proceedings</i> , 2020 , 285-290	0.2	
3	Aluminium-BSF Versus PERC Solar Cells: Study of Rear Side Passivation Quality and Diffusion Length. <i>IFMBE Proceedings</i> , 2020 , 745-748	0.2	

- 2 3D-Printed Sensor Array of Semiconducting Oxides. *IFMBE Proceedings*, **2020**, 3-6 0.2
- 1 ZnO Hydrogen Nanoscale Sensors. *Lecture Notes in Nanoscale Science and Technology*, **2013**, 119-152 0.3