Oleg Lupan

List of Publications by Year in Descending Order

163 papers	9,597 citations	55 h-index	94 g-index
197 ext. papers	10,708 ext. citations	5.2 avg, IF	6.11 L-index

#	Paper	IF	Citations
163	Sensing performance of CuO/Cu2O/ZnO:Fe heterostructure coated with thermally stable ultrathin hydrophobic PV3D3 polymer layer for battery application. *Materials Today Chemistry*, **2022**, 23, 100642	6.2	0
162	Electrical Characterization of Individual Boron Nitride Nanowall Structures. *IFMBE Proceedings*, **2022**, 17-23	0.2	
161	Improved Long-Term Stability and Reduced Humidity Effect in Gas Sensing: SiO2 Ultra-Thin Layered ZnO Columnar Films. *Advanced Materials Technologies*, **2021**, 6, 2001137	6.8	8
160	TiO/CuO/CuO Multi-Nanolayers as Sensors for H and Volatile Organic Compounds: An Experimental and Theoretical Investigation. *ACS Applied Materials & Interfaces*, **2021**, 13, 32363-32380	9.5	9
159	Crystallinity and optical properties of Ga2O3/Ga2S3 layered structure obtained by thermal annealing of Ga2S3 semiconductor. *Materials Science in Semiconductor Processing*, **2021**, 121, 105314	4.3	2
158	Comparison of Thermal Annealing Hydrothermal Treatment Effects on the Detection Performances of ZnO Nanowires. *ACS Applied Materials & Interfaces*, **2021**, 13, 10537-10552	9.5	5
157	Additive Manufacturing as a Means of Gas Sensor Development for Battery Health Monitoring. *Chemosensors*, **2021**, 9, 252	4	2
156	Heterostructure-based devices with enhanced humidity stability for H2 gas sensing applications in breath tests and portable batteries. *Sensors and Actuators A: Physical*, **2021**, 329, 112804	3.9	4
155	Tailoring the selectivity of ultralow-power heterojunction gas sensors by noble metal nanoparticle functionalization. *Nano Energy*, **2021**, 88, 106241	17.1	5
154	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	13	22
153	Highly selective and ultra-low power consumption metal oxide based hydrogen gas sensor employing graphene oxide as molecular sieve. *Sensors and Actuators B: Chemical*, **2020**, 320, 128363	8.5	25
152	Mechanical and Wetting Properties of Three-Dimensional Flexible Tetrapodal ZnO Networks ALD-Coated with Al2O3. *IFMBE Proceedings*, **2020**, 263-267	0.2	1
151	Acetone Sensing Properties of Nanostructured Copper Oxide Films on Glass Substrate. *IFMBE Proceedings*, **2020**, 285-290	0.2	
150	Aluminium-BSF Versus PERC Solar Cells: Study of Rear Side Passivation Quality and Diffusion Length. *IFMBE Proceedings*, **2020**, 745-748	0.2	
149	3D-Printed Sensor Array of Semiconducting Oxides. *IFMBE Proceedings*, **2020**, 3-6	0.2	
148	Facile fabrication of semiconducting oxide nanostructures by direct ink writing of readily available metal microparticles and their application as low power acetone gas sensors. *Nano Energy*, **2020**, 70, 104420	17.1	25
147	Single CuO/CuO/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	9.5	17

146	Room temperature gas nanosensors based on individual and multiple networked Au-modified ZnO nanowires. *Sensors and Actuators B: Chemical*, **2019**, 299, 126977	8.5	24
145	3D-Printed Chemiresistive Sensor Array on Nanowire CuO/CuO/Cu Heterojunction Nets. *ACS Applied Materials & Interfaces*, **2019**, 11, 25508-25515	9.5	25
144	Individual CdS-covered aerographite microtubes for room temperature VOC sensing with high selectivity. *Materials Science in Semiconductor Processing*, **2019**, 100, 275-282	4.3	7
143	Effect of noble metal functionalization and film thickness on sensing properties of sprayed TiO2 ultra-thin films. *Sensors and Actuators A: Physical*, **2019**, 293, 242-258	3.9	12
142	Concept and modelling of memsensors as two terminal devices with enhanced capabilities in neuromorphic engineering. *Scientific Reports*, **2019**, 9, 4361	4.9	9
141	The impact of O/Ar ratio on morphology and functional properties in reactive sputtering of metal oxide thin films. *Nanotechnology*, **2019**, 30, 235603	3.4	14
140	Low-Temperature Solution Synthesis of Au-Modified ZnO Nanowires for Highly Efficient Hydrogen Nanosensors. *ACS Applied Materials & Interfaces*, **2019**, 11, 32115-32126	9.5	29
139	Synthesis and optical properties of Ga2O3 nanowires grown on GaS substrate. *Thin Solid Films*, **2019**, 689, 137502	2.2	5
138	UV nanophotodetectors: A case study of individual Au-modified ZnO nanowires. *Sensors and Actuators A: Physical*, **2019**, 296, 400-408	3.9	11
137	Tuning ZnO Sensors Reactivity toward Volatile Organic Compounds via Ag Doping and Nanoparticle Functionalization. *ACS Applied Materials & Interfaces*, **2019**, 11, 31452-31466	9.5	43
136	Improving gas sensing by CdTe decoration of individual Aerographite microtubes. *Nanotechnology*, **2019**, 30, 065501	3.4	5
135	The effect of morphology and functionalization on UV detection properties of ZnO networked tetrapods and single nanowires. *Vacuum*, **2019**, 166, 393-398	3.7	15
134	Buckminsterfullerene hybridized zinc oxide tetrapods: defects and charge transfer induced optical and electrical response. *Nanoscale*, **2018**, 10, 10050-10062	7.7	35
133	ZnAl2O4-Functionalized Zinc Oxide Microstructures for Highly Selective Hydrogen Gas Sensing Applications. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700772	1.6	10
132	Zinc oxide nanotetrapods with four different arm morphologies for versatile nanosensors. *Sensors and Actuators B: Chemical*, **2018**, 262, 425-435	8.5	44
131	Al-Doped ZnO Nanowires by Electrochemical Deposition for Selective VOC Nanosensor and Nanophotodetector. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700824	1.6	14
130	(CuO-Cu2O)/ZnO:Al heterojunctions for volatile organic compound detection. *Sensors and Actuators B: Chemical*, **2018**, 255, 1362-1375	8.5	36
129	Ultra-thin TiO2 films by atomic layer deposition and surface functionalization with Au nanodots for sensing applications. *Materials Science in Semiconductor Processing*, **2018**, 87, 44-53	4.3	18

128	Properties of a single SnO2:Zn2SnO4 Functionalized nanowire based nanosensor. *Ceramics International*, **2018**, 44, 4859-4867	5.1	26
127	Functionalized Pd/ZnO Nanowires for Nanosensors. *Physica Status Solidi - Rapid Research Letters*, **2018**, 12, 1700321	2.5	27
126	Ultra-sensitive and selective hydrogen nanosensor with fast response at room temperature based on a single Pd/ZnO nanowire. *Sensors and Actuators B: Chemical*, **2018**, 254, 1259-1270	8.5	91
125	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	13	27
124	Individual Bi2O3-Functionalized ZnO Microwire for Hydrogen Gas Detection. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2018**, 445-450	0.2	1
123	PdO/PdO functionalized ZnO : Pd films for lower operating temperature H gas sensing. *Nanoscale*, **2018**, 10, 14107-14127	7.7	76
122	Size-dependent UV and gas sensing response of individual Fe2O3-ZnO:Fe micro- and nanowire based devices. *Journal of Alloys and Compounds*, **2017**, 701, 920-925	5.7	27
121	Enhanced UV and ethanol vapour sensing of a single 3-D ZnO tetrapod alloyed with Fe2O3 nanoparticles. *Sensors and Actuators B: Chemical*, **2017**, 245, 448-461	8.5	39
120	Hybridization of Zinc Oxide Tetrapods for Selective Gas Sensing Applications. *ACS Applied Materials & Interfaces*, **2017**, 9, 4084-4099	9.5	110
119	UV radiation and CH4 gas detection with a single ZnO:Pd nanowire **2017**,		1
118	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). *Advanced Functional Materials*, **2017**, 27,	15.6	1
117	Localized Synthesis of Iron Oxide Nanowires and Fabrication of High Performance Nanosensors Based on a Single Fe O Nanowire. *Small*, **2017**, 13, 1602868	11	76
116	Nanomechanics of individual aerographite tetrapods. *Nature Communications*, **2017**, 8, 14982	17.4	26
115	UV detection properties of hybrid ZnO tetrapod 3-D networks. *Vacuum*, **2017**, 146, 492-500	3.7	22
114	Multifunctional Materials: A Case Study of the Effects of Metal Doping on ZnO Tetrapods with Bismuth and Tin Oxides. *Advanced Functional Materials*, **2017**, 27, 1604676	15.6	101
113	Schottky Diode Based on a Single Carbon Nanotube ZnO Hybrid Tetrapod for Selective Sensing Applications. *Advanced Materials Interfaces*, **2017**, 4, 1700507	4.6	27
112	Porous ceramics based on hybrid inorganic tetrapodal networks for efficient photocatalysis and water purification. *Ceramics International*, **2017**, 43, 14915-14922	5.1	67
111	Sensing performances of pure and hybridized carbon nanotubes-ZnO nanowire networks: A detailed study. *Scientific Reports*, **2017**, 7, 14715	4.9	45

110	Morphology dependent UV photoresponse of Sn-doped ZnO microstructures. *Solid State Sciences*, **2017**, 71, 75-86	3.4	28
109	Individual hollow and mesoporous aero-graphitic microtube based devices for gas sensing applications. *Applied Physics Letters*, **2017**, 110, 263109	3.4	22
108	Single and Networked ZnO-CNT Hybrid Tetrapods for Selective Room-Temperature High-Performance Ammonia Sensors. *ACS Applied Materials & Interfaces*, **2017**, 9, 23107-23118	9.5	93
107	Sensing Properties of Ultra-Thin TiO2 Nanostructured Films Based Sensors. *IFMBE Proceedings*, **2016**, 149-152	0.2	1
106	Silver-doped zinc oxide single nanowire multifunctional nanosensor with a significant enhancement in response. *Sensors and Actuators B: Chemical*, **2016**, 223, 893-903	8.5	145
105	Influence of CuO nanostructures morphology on hydrogen gas sensing performances. *Microelectronic Engineering*, **2016**, 164, 63-70	2.5	47
104	Sacrificial Template Synthesis and Properties of 3D Hollow-Silicon Nano- and Microstructures. *ACS Applied Materials & Interfaces*, **2016**, 8, 20491-8	9.5	49
103	Oxide planar p□ heterojunction prepared by low temperature solution growth for UV-photodetector applications. *RSC Advances*, **2016**, 6, 68254-68260	3.7	13
102	Multifunctional device based on ZnO:Fe nanostructured films with enhanced UV and ultra-fast ethanol vapour sensing. *Materials Science in Semiconductor Processing*, **2016**, 49, 20-33	4.3	62
101	Complex shaped ZnO nano- and microstructure based polymer composites: mechanically stable and environmentally friendly coatings for potential antifouling applications. *Physical Chemistry Chemical Physics*, **2016**, 18, 7114-23	3.6	45
100	Three-dimensional flexible ceramics based on interconnected network of highly porous pure and metal alloyed ZnO tetrapods. *Ceramics International*, **2016**, 42, 8664-8676	5.1	54
99	Photocatalytic Applications of Doped Zinc Oxide Porous Films Grown by Magnetron Sputtering. *IFMBE Proceedings*, **2016**, 353-356	0.2	
98	Effect of Dopant on Selectivity of CuO Nanostructured Films □Based Sensors. *IFMBE Proceedings*, **2016**, 349-352	0.2	
97	Enhanced ethanol vapour sensing performances of copper oxide nanocrystals with mixed phases. *Sensors and Actuators B: Chemical*, **2016**, 224, 434-448	8.5	120
96	Single and networked CuO nanowires for highly sensitive p-type semiconductor gas sensor applications. *Physica Status Solidi - Rapid Research Letters*, **2016**, 10, 260-266	2.5	75
95	Synthesis, characterization and DFT studies of zinc-doped copper oxide nanocrystals for gas sensing applications. *Journal of Materials Chemistry A*, **2016**, 4, 6527-6539	13	119
94	Non-planar nanoscale p□ heterojunctions formation in Zn Cu1O nanocrystals by mixed phases for enhanced sensors. *Sensors and Actuators B: Chemical*, **2016**, 230, 832-843	8.5	56
93	Low powered, tunable and ultra-light aerographite sensor for climate relevant gas monitoring. *Journal of Materials Chemistry A*, **2016**, 4, 16723-16730	13	38

92	Integration of individual TiO2 nanotube on the chip: Nanodevice for hydrogen sensing. *Physica Status Solidi - Rapid Research Letters*, **2015**, 9, 171-174	2.5	44
91	Rapid switching and ultra-responsive nanosensors based on individual shell□core Ga2O3/GaN:O @SnO2 nanobelt with nanocrystalline shell in mixed phases. *Sensors and Actuators B: Chemical*, **2015**, 221, 544-555	8.5	58
90	Nanowire Networks: Three-Dimensional SnO2 Nanowire Networks for Multifunctional Applications: From High-Temperature Stretchable Ceramics to Ultraresponsive Sensors (Adv. Electron. Mater. 8/2015). *Advanced Electronic Materials*, **2015**, 1, n/a-n/a	6.4	1
89	Three-Dimensional SnO2 Nanowire Networks for Multifunctional Applications: From High-Temperature Stretchable Ceramics to Ultraresponsive Sensors. *Advanced Electronic Materials*, **2015**, 1, 1500081	6.4	104
88	Low-Temperature Preparation of Ag-Doped ZnO Nanowire Arrays, DFT Study, and Application to Light-Emitting Diode. *ACS Applied Materials & Interfaces*, **2015**, 7, 11871-80	9.5	53
87	Direct Growth of Freestanding ZnO Tetrapod Networks for Multifunctional Applications in Photocatalysis, UV Photodetection, and Gas Sensing. *ACS Applied Materials & Interfaces*, **2015**, 7, 14303-16	9.5	368
86	Control of persistent photoconductivity in nanostructured InP through morphology design. *Semiconductor Science and Technology*, **2015**, 30, 035014	1.8	9
85	Rapid fabrication technique for interpenetrated ZnO nanotetrapod networks for fast UV sensors. *Advanced Materials*, **2014**, 26, 1541-50	24	377
84	Single step integration of ZnO nano- and microneedles in Si trenches by novel flame transport approach: whispering gallery modes and photocatalytic properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 7806-15	9.5	141
83	Versatile Growth of Freestanding Orthorhombic □Molybdenum Trioxide Nano- and Microstructures by Rapid Thermal Processing for Gas Nanosensors. *Journal of Physical Chemistry C*, **2014**, 118, 15068-15078	3.8	95
82	Investigation of optical properties and electronic transitions in bulk and nano-microribbons of molybdenum trioxide. *Journal Physics D: Applied Physics*, **2014**, 47, 085302	3	27
81	Characterization of liposomes and silica nanoparticles using resistive pulse method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 448, 9-15	5.1	8
80	Versatile Fabrication of Complex Shaped Metal Oxide Nano-Microstructures and Their Interconnected Networks for Multifunctional Applications. *KONA Powder and Particle Journal*, **2014** , 31, 92-110	3.4	95
79	Controlling the properties of electrodeposited ZnO nanowire arrays for light emitting diode, photodetector and gas sensor applications **2014**,		3
78	Blue-red electroluminescence from hybrid Eu:phosphors/ZnO-nanowires/p-GaN LED **2014**,		2
77	Synthesis and gas sensor applications of nanostructured ZnO grown at low temperatures. *Turkish Journal of Physics*, **2014**, 38, 399-419	1.6	6
76	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	1.3	3
75	Magnetron Sputtering and Characterization of Doped Zinc Oxide Nanofibrous Films and Their Applications. *Journal of Nanoelectronics and Optoelectronics*, **2014**, 9, 257-264	1.3	6

74	Eu-doped ZnO nanowire arrays grown by electrodeposition. *Applied Surface Science*, **2013**, 282, 782-788	6.7	76
73	Controlled Mixed VioletBlueRed Electroluminescence from Eu:Nano-Phosphors/ZnO-Nanowires/p-GaN Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2013**, 117, 26768-26775	3.8	28
72	Synthesis and characterization of Cu-doped ZnO one-dimensional structures for miniaturized sensor applications with faster response. *Sensors and Actuators A: Physical*, **2013**, 189, 399-408	3.9	185
71	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	1	4
70	Effect of Al Sn Doping on properties of zinc oxide nanostructured films grown by magnetron sputtering **2013**,		1
69	ZnO Hydrogen Nanoscale Sensors. *Lecture Notes in Nanoscale Science and Technology*, **2013**, 119-152	0.3	
68	Functionalized individual ZnO microwire for natural gas detection. *Sensors and Actuators A: Physical* , **2012**, 176, 64-71	3.9	63
67	Highly sensitive and selective hydrogen single-nanowire nanosensor. *Sensors and Actuators B: Chemical*, **2012**, 173, 772-780	8.5	128
66	Chemical bath deposition of SnO2 and Cd2SnO4 thin films. *Applied Surface Science*, **2012**, 258, 6069-6074	6.7	41
65	Comparative study of the ZnO and Zn1CdxO nanorod emitters hydrothermally synthesized and electrodeposited on p-GaN. *Applied Surface Science*, **2012**, 259, 399-405	6.7	27
64	Optical properties of Sm-doped ceria nanostructured films grown by electrodeposition at low temperature. *Optical Materials*, **2012**, 34, 1897-1901	3.3	13
63	Toward blue emission in ZnO based LED **2012**,		2
62	Nanofibrous-like ZnO layers deposited by magnetron sputtering and their integration in dye-sensitized solar cells. *Chemical Physics Letters*, **2012**, 550, 125-129	2.5	29
61	Tunable electroluminescence from low-threshold voltage LED structure based on electrodeposited Zn1CdxO-nanorods/p-GaN heterojunction. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 359-363	1.6	11
60	Optical and sensory properties of ZnO nanofibrous layers grown by magnetron sputtering **2012**,		1
59	UV-Blue and Green Electroluminescence from Cu-Doped ZnO Nanorod Emitters Hydrothermally Synthesized on p-GaN. *Journal of Nanoelectronics and Optoelectronics*, **2012**, 7, 712-718	1.3	19
58	Investigation of chemical bath deposition of CdO thin films using three different complexing agents. *Applied Surface Science*, **2011**, 257, 9237-9242	6.7	78
57	High Aspect Ratio Ternary Zn1CdxO Nanowires by Electrodeposition for Light-Emitting Diode Applications. *Journal of Physical Chemistry C*, **2011**, 115, 14548-14558	3.8	61

56	Nanostructures of Metal Oxides **2011**, 396-479		18
55	Fabrication and characterization of an individual ZnO microwire-based UV photodetector. *Solid State Sciences*, **2011**, 13, 1205-1210	3.4	36
54	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	2.2	33
53	Optical properties of ZnO nanowire arrays electrodeposited on n- and p-type Si(111): Effects of thermal annealing. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2011**, 176, 1277-1284	3.1	24
52	Electrodeposition of Cu-doped ZnO nanowire arrays and heterojunction formation with p-GaN for color tunable light emitting diode applications. *Electrochimica Acta*, **2011**, 56, 10543-10549	6.7	71
51	Electrochemical synthesis and properties of ceria films grown on stainless steel. *Russian Journal of Physical Chemistry A*, **2011**, 85, 2358-2362	0.7	3
50	Wavelength-Emission Tuning of ZnO Nanowire-Based Light-Emitting Diodes by Cu Doping: Experimental and Computational Insights. *Advanced Functional Materials*, **2011**, 21, 3564-3572	15.6	138
49	Rapid hydrothermal synthesis of zinc oxide nanorods on single crystal sapphire substrate **2011**,		1
48	Synthesis and characterization of electrodeposited samaria and samaria-doped ceria thin films. *Electrochimica Acta*, **2011**, 56, 4638-4644	6.7	34
47	Highly luminescent columnar ZnO films grown directly on n-Si and p-Si substrates by low-temperature electrochemical deposition. *Optical Materials*, **2011**, 33, 914-919	3.3	20
46	Effect of samarium addition and annealing on the properties of electrodeposited ceria thin films. *Thin Solid Films*, **2011**, 519, 3538-3543	2.2	21
45	Directional and magnetic field enhanced emission of Cu-doped ZnO nanowires/p-GaN heterojunction light-emitting diodes. *Journal of Nanophotonics*, **2011**, 5, 051816	1.1	7
44	Photoluminescence and Raman Study of Well-Aligned ZnO Nanorods on p-Si Substrate. *Journal of Nanoelectronics and Optoelectronics*, **2011**, 6, 473-477	1.3	6
43	Samarium-Doped Ceria Nanostructured Thin Films Grown on FTO Glass by Electrodepostion. *Acta Physica Polonica A*, **2011**, 120, 298-302	0.6	16
42	Epitaxial Electrodeposition of ZnO Nanowire Arrays on p-GaN for Efficient UV-Light-Emitting Diode Fabrication. *ACS Applied Materials & Interfaces*, **2010**, 2, 2083-2090	9.5	113
41	Synthesis and Characterization of Ag- or Sb-Doped ZnO Nanorods by a Facile Hydrothermal Route. *Journal of Physical Chemistry C*, **2010**, 114, 12401-12408	3.8	196
40	Low-Temperature Growth of ZnO Nanowire Arrays on p-Silicon (111) for Visible-Light-Emitting Diode Fabrication. *Journal of Physical Chemistry C*, **2010**, 114, 14781-14785	3.8	50
39	Selective hydrogen gas nanosensor using individual ZnO nanowire with fast response at room temperature. *Sensors and Actuators B: Chemical*, **2010**, 144, 56-66	8.5	367

38	Synthesis and characterization of ZnO nanowires for nanosensor applications. *Materials Research Bulletin*, **2010**, 45, 1026-1032	5.1	182
37	Low-voltage UV-electroluminescence from ZnO-nanowire Array/p-GaN light-emitting diodes. *Advanced Materials*, **2010**, 22, 3298-302	24	257
36	Effects of annealing on properties of ZnO thin films prepared by electrochemical deposition in chloride medium. *Applied Surface Science*, **2010**, 256, 1895-1907	6.7	367
35	Hydrothermal treatment for the marked structural and optical quality improvement of ZnO nanowire arrays deposited on lightweight flexible substrates. *Journal of Crystal Growth*, **2010**, 312, 2454-2458	1.6	60
34	Well-aligned arrays of vertically oriented ZnO nanowires electrodeposited on ITO-coated glass and their integration in dye sensitized solar cells. *Journal of Photochemistry and Photobiology A: Chemistry*, **2010**, 211, 65-73	4.7	225
33	Electrochemical synthesis and characterization of nanorods, nanocolumnar ceria based thin films on different glass substrates. *Chemical Physics Letters*, **2010**, 494, 237-242	2.5	21
32	Ultraviolet photoconductive sensor based on single ZnO nanowire. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 1735-1740	1.6	68
31	FIB fabrication of ZnO nanotetrapod and cross-sensor. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 1628-1632	1.3	27
30	Self-assembly of densely packed and aligned bilayer ZnO nanorod arrays. *Applied Physics Letters*, **2009**, 94, 163105	3.4	45
29	Nanostructured zinc oxide films synthesized by successive chemical solution deposition for gas sensor applications. *Materials Research Bulletin*, **2009**, 44, 63-69	5.1	100
28	A single ZnO tetrapod-based sensor. *Sensors and Actuators B: Chemical*, **2009**, 141, 511-517	8.5	169
27	In-situ boron doping of chemical-bath deposited CdS thin films. *Physica Status Solidi (A) Applications and Materials Science*, **2009**, 206, 256-262	1.6	27
26	Synthesis of nanostructured Al-doped zinc oxide films on Si for solar cells applications. *Solar Energy Materials and Solar Cells*, **2009**, 93, 1417-1422	6.4	98
25	A rapid hydrothermal synthesis of rutile SnO2 nanowires. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2009**, 157, 101-104	3.1	115
24	Synthesis of one-dimensional SnO2 nanorods via a hydrothermal technique. *Physica E: Low-Dimensional Systems and Nanostructures*, **2009**, 41, 533-536	3	60
23	Crossed zinc oxide nanorods for ultraviolet radiation detection. *Sensors and Actuators A: Physical*, **2009**, 150, 184-187	3.9	118
22	Characterization of gallium-doped CdS thin films grown by chemical bath deposition. *Applied Surface Science*, **2009**, 255, 4129-4134	6.7	119
21	Investigation of chemical bath deposition of ZnO thin films using six different complexing agents. *Journal Physics D: Applied Physics*, **2009**, 42, 135304	3	63

20	Investigation of aluminium and indiumin situdoping of chemical bath deposited CdS thin films. *Journal Physics D: Applied Physics*, **2008**, 41, 185304	3	78
19	Neutron Transmutation Doping and Radiation Hardness for Solution-Grown Bulk and Nano-Structured ZnO. *Materials Research Society Symposia Proceedings*, **2008**, 1108, 1		2
18	Focused-ion-beam fabrication of ZnO nanorod-based UV photodetector using the in-situ lift-out technique. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 2673-2678	1.6	77
17	Growth of tetragonal SnO2 microcubes and their characterization. *Journal of Crystal Growth*, **2008**, 311, 152-155	1.6	48
16	Novel hydrogen gas sensor based on single ZnO nanorod. *Microelectronic Engineering*, **2008**, 85, 2220-2225	2.5	270
15	Fabrication and characterization of ZnO core–shell microspheres from nanorods. *Chemical Physics Letters*, **2008**, 465, 249-253	2.5	74
14	Biopolymer-assisted self-assembly of ZnO nanoarchitectures from nanorods. *Superlattices and Microstructures*, **2008**, 43, 292-302	2.8	24
13	Nanostructured zinc oxide gas sensors by successive ionic layer adsorption and reaction method and rapid photothermal processing. *Thin Solid Films*, **2008**, 516, 3338-3345	2.2	100
12	Effect of synthesis conditions on the growth of ZnO nanorods via hydrothermal method. *Physica B: Condensed Matter*, **2008**, 403, 3713-3717	2.8	316
11	Effect of Sn Dopant on the Properties of ZnO Nanorod Arrays. *Semiconductor Conference, 2009 CAS 2009 International*, **2007**,		2
10	Nitrogen oxides and ammonia sensing characteristics of SILAR deposited ZnO thin film. *Superlattices and Microstructures*, **2007**, 42, 375-378	2.8	29
9	Rapid thermal annealing induced change of the mechanism of multiphonon resonant Raman scattering from ZnO nanorods. *Solid State Communications*, **2007**, 143, 437-441	1.6	32
8	Fabrication of ZnO nanorod-based hydrogen gas nanosensor. *Microelectronics Journal*, **2007**, 38, 1211-1216	1.8	129
7	Nanofabrication and characterization of ZnO nanorod arrays and branched microrods by aqueous solution route and rapid thermal processing. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2007**, 145, 57-66	3.1	152
6	Synthesis and Characterization of Functional Nanostructured Zinc Oxide Thin Films. *ECS Transactions*, **2006**, 3, 65-71	1	12
5	Novel NO2 gas sensor based on cuprous oxide thin films. *Sensors and Actuators B: Chemical*, **2006**, 113, 468-476	8.5	145
4	Sensing characteristics of tin-doped ZnO thin films as NO2 gas sensor. *Sensors and Actuators B: Chemical*, **2005**, 107, 379-386	8.5	365
3	Photoluminescence of chemical bath deposited ZnO:Al films treated by rapid thermal annealing. *Thin Solid Films*, **2005**, 488, 15-19	2.2	33

2	Properties of SiO2 thin films prepared by anodic oxidation under UV illumination and rapid photothermal processing. *Electrochimica Acta*, **2004**, 49, 4433-4438	6.7	15
1	Impact of Rapid Photothermal Processing on Properties of ZnO Nanostructures for Solar Cell Applications		1