

A comprehensive review of ZnO materials and devices

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Citation Report

#	ARTICLE	IF	CITATIONS
1	High efficiency n-ZnO/p-SiC heterostructure photodiodes grown by plasma-assisted molecular-beam epitaxy. Superlattices and Microstructures, 2005, 38, 439-445.	1.4	22
2	Forward-current electroluminescence from GaN/ZnO double heterostructure diode. Solid-State Electronics, 2005, 49, 1693-1696.	0.8	24
3	Electrical and Optical Properties of n-ZnO/p-SiC Heterojunctions. Japanese Journal of Applied Physics, 2005, 44, 7281-7284.	0.8	21
4	Carrier concentration and shallow electron states in In-doped hydrothermally grown ZnO. Superlattices and Microstructures, 2005, 38, 364-368.	1.4	5
5	Fabrication of Hybridn-ZnMgO/n-ZnO/p-AlGaIn/p-GaN Light-Emitting Diodes. Japanese Journal of Applied Physics, 2005, 44, 7296-7300.	0.8	37
6	Synthesis and luminescence properties of novel ZnO nanostructures: micro and nanospheres, polyhedral cages, tetra-pods, needles, tipped nanorods, nanowires and other "microphone" shaped structures. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	1
7	A short review and Present Status of ZnO Nanoparticle Formation by Ion Implantation Combined with Thermal Oxidation. Materials Research Society Symposia Proceedings, 2005, 908, 1.	0.1	0
8	Laser Assisted Molecular Beam Deposition of High Mobility Zinc Oxide. Materials Research Society Symposia Proceedings, 2005, 891, 1.	0.1	1
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10	Three-photon absorption in ZnO and ZnS crystals. Optics Express, 2005, 13, 9235.	1.7	204
11	Origin of green luminescence in ZnO thin film grown by molecular-beam epitaxy. Journal of Applied Physics, 2005, 98, 073502.	1.1	373
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14	Photoluminescence properties peculiar to the Mn-related transition in a lightly alloyed ZnMnO thin film grown by pulsed laser deposition. Applied Physics Letters, 2006, 88, 241908.	1.5	24
15	Observation of numerous E2 mode phonon replicas in the room temperature photoluminescence spectra of ZnO nanowires: Evidence of strong deformation potential electron-phonon coupling. Applied Physics Letters, 2006, 89, 143121.	1.5	12
16	Optical characterization of filtered vacuum arc deposited zinc oxide thin films. Semiconductor Science and Technology, 2006, 21, 1303-1310.	1.0	16
17	Zn and ZnO nanoparticles fabricated by ion implantation combined with thermal oxidation, and the defect-free luminescence. Applied Physics Letters, 2006, 88, 153119.	1.5	63
18	On the determination of spherical nanoindentation stress-strain curves. Journal of Materials Research, 2006, 21, 2628-2637.	1.2	129

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20	Young's moduli of ZnO nanoplates: Ab initio determinations. <i>Applied Physics Letters</i> , 2006, 89, 183111.	1.5	86
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4626	Correlation of Defect-Related Optoelectronic Properties in ZnO Nanorods with Hydroxyl Groups id="M1">$Zn$$O$$_x$$OH$</math> stretchy="false">T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50		

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4645	High-Performance Solution-Processed ZnSnO TFTs with Tunable Threshold Voltages. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, P176-P180.	0.9	15
4646	Magnetic Ions in Group II-VI Semiconductors. <i>Springer Series in Optical Sciences</i> , 2015, , 339-353.	0.5	0
4647	Electronic structures of ZnX (X = O and S) nanosheets from first-principles energy loss near edge structure studies. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 203, 14-24.	0.8	4
4648	Controlling the Electrical Transport Properties of Nanocontacts to Nanowires. <i>Nano Letters</i> , 2015, 15, 4248-4254.	4.5	34
4649	The influence of localized plasmons on the optical properties of Au/ZnO nanostructures. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6815-6821.	2.7	63
4650	Enhanced Photocatalytic Properties of Ag-Modified Mg-Doped ZnO Nanocrystals Hybridized with Reduced Graphene Oxide Sheets. <i>Materials Science Forum</i> , 0, 814, 161-166.	0.3	2
4651	Time-dependent mechanical-electrical coupled behavior in single crystal ZnO nanorods. <i>Scientific Reports</i> , 2015, 5, 9716.	1.6	3
4652	Modeling and fabrication of single cantilever piezoelectric microgenerator with optimized ZnO active layer. <i>Thin Solid Films</i> , 2015, 591, 305-310.	0.8	11
4653	Theoretical investigations of novel zinc oxide polytypes and in-depth study of their electronic properties. <i>RSC Advances</i> , 2015, 5, 25929-25935.	1.7	28
4654	X-ray scattering characterisation of nanoparticles. <i>Crystallography Reviews</i> , 2015, 21, 229-303.	0.4	126
4655	Enhanced electromechanical behaviors of cellulose ZnO hybrid nanocomposites. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
4656	Materials and fabrication of electrode scaffolds for deposition of MnO ₂ and their true performance in supercapacitors. <i>Journal of Power Sources</i> , 2015, 293, 657-674.	4.0	93
4657	Complete surface coverage of ZnO nanorod arrays by pulsed electrodeposited CuInS ₂ for visible light energy conversion. <i>Dalton Transactions</i> , 2015, 44, 7127-7130.	1.6	16
4658	Photophysics of Point Defects in ZnO Nanoparticles. <i>Advanced Optical Materials</i> , 2015, 3, 821-827.	3.6	53
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4663	Influence of Al concentration and annealing temperature on structural, optical, and electrical properties of Al co-doped ZnO thin films. <i>Applied Surface Science</i> , 2015, 349, 549-560.	3.1	23
4664	Reactive magnetron sputtering of Ni doped ZnO thin film: Investigation of optical, structural, mechanical and magnetic properties. <i>Journal of Alloys and Compounds</i> , 2015, 636, 85-92.	2.8	38
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4670	Photodeposition synthesis of a ZnO nanoporous layer. <i>RSC Advances</i> , 2015, 5, 52998-53002.	1.7	3
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4684	Epitaxial growth of nonpolar m-plane ZnO epilayers and ZnO/Zn _{0.55} Mg _{0.45} O multiple quantum wells on a LiGaO ₂ (100) substrate. <i>RSC Advances</i> , 2015, 5, 104798-104805.	1.7	4
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4724	Conductive ZnO:Zn Composites for High-Rate Sputtering Deposition of ZnO Thin Films. <i>Journal of Electronic Materials</i> , 2015, 44, 682-687.	1.0	6
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6799	Screened Coulomb hybrid density functional investigation of oxygen point defects on ZnO nanowires. <i>Computational Condensed Matter</i> , 2018, 16, e00307.	0.9	2
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6812	Effect of O-O bonds on p-type conductivity in Ag-doped ZnO twin grain boundaries. <i>Chinese Physics B</i> , 2018, 27, 057701.	0.7	1
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6814	Morphological transformations induced by Co impurity in ZnO nanostructures prepared by rf-sputtering and their physical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 11719-11729.	1.1	7
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6965	Electron mobility in oxide heterostructures. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 293002.	1.3	44
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6968	Thermoluminescence of ZnO:Na phosphors exposed to beta particle irradiation. <i>Optical Materials</i> , 2018, 83, 78-81.	1.7	5
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8176	Micro-strain administered SHG intensity enhancement by heavy Ce doping in co-precipitated ZnO nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 266, 115041.	1.7	19
8177	Investigation of Local Structure of ZnO with High Doping Copper Concentration (â‰¥13 %mole) Prepared by Co-Precipitation Method. <i>Materials Science Forum</i> , 0, 1028, 84-89.	0.3	0
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