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Blueshift of optical band gap in ZnO thin films grown by metal-organic chemical-vapor deposition

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#	Paper	IF	Citations
607	Optical Properties of Zinc Oxide Quantum Dots Embedded Films by Metal Organic Chemical Vapor Deposition. <b>2005</b> , 891, 1		
606	Formation and characterization of Sb <sub>2</sub> Te <sub>3</sub> nanofilms on Pt by electrochemical atomic layer epitaxy. <b>2006</b> , 110, 4599-604		62
605	Optical and electrical properties of undoped ZnO films. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 093501	2.5	113
604	Influence of annealing atmosphere on ZnO thin films grown by MOCVD. <b>2006</b> , 253, 2066-2070		28
603	Structure and properties of ZnO films grown on Si substrates with low temperature buffer layers. <b>2006</b> , 253, 2765-2769		16
602	Zinc oxide quantum dots embedded films by metal organic chemical vapor deposition. <b>2006</b> , 290, 518-522		39
601	Synthesis of well-aligned ZnO nanorod arrays with high optical property via a low-temperature solution method. <b>2006</b> , 291, 334-339		77
600	Effect of Cu/Al ratio on the properties of CuAlSe <sub>2</sub> thin films prepared by co-evaporation. <b>2006</b> , 100, 152-157		14
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292	Preparation and characterization of dye-sensitized TiO <sub>2</sub> nanorod solar cells. <b>2015</b> , 577, 103-108		12
291	Signatures of Quantized Energy States in Solution-Processed Ultrathin Layers of Metal-Oxide Semiconductors and Their Devices. <b>2015</b> , 25, 1727-1736		29
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284	Efficient inverted polymer solar cells using low-temperature zinc oxide interlayer processed from aqueous solution. <b>2015</b> , 54, 042301	9
283	Photoluminescence and photocatalytic studies of metal ions (Mn and Ni) doped ZnS nanoparticles. <b>2015</b> , 47, 7-17	60
282	Enhanced violet photoemission of nanocrystalline fluorine doped zinc oxide (FZO) thin films. <b>2015</b> , 47, 88-94	17
281	Non-laminated growth of chlorine-doped zinc oxide films by atomic layer deposition at low temperatures. <b>2015</b> , 3, 8336-8343	19
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278	Electromagnetic interference shielding behaviors of Zn-based conducting oxide films prepared by atomic layer deposition. <b>2015</b> , 583, 226-232	8
277	Enhanced ultraviolet and visible photoluminescence of ZnO/Zn <sub>2</sub> SiO <sub>4</sub> /SiO <sub>2</sub> /Si multilayer structure. <b>2015</b> , 642, 131-135	9
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265	Preparation and effect of thermal treatment on Gd <sub>2</sub> O <sub>3</sub> :SiO <sub>2</sub> nanocomposite. <b>2015</b> , 29, 1550046	5
264	Li doped ZnO thin film: effect of substrate temperature on structure, optical and electrical properties. <b>2015</b> , 47, 3655-3665	
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260	Structural and optical studies of undoped and copper doped zinc sulphide nanoparticles for photocatalytic application. <b>2015</b> , 77, 35-53	24
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255	Novel chemical vapor deposition process of ZnO films using nonequilibrium N <sub>2</sub> plasma generated near atmospheric pressure with small amount of O <sub>2</sub> below 1%. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 175302	2.5 3
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247	Synthesis of Trimeric Organozinc Compounds and their Subsequent Reaction with Oxygen. <b>2016</b> , 5, 301-5	9
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240	Structural and linear and nonlinear optical properties of Zn <sub>1-x</sub> Al <sub>x</sub> O (0 ≤ x ≤ 10) thin films fabricated via pulsed laser deposition technique. <b>2016</b> , 6, 2063	37
239	Racetrack Effect on the Dissimilar Sensing Response of ZnO Thin Film-An Anisotropy of Isotropy. <b>2016</b> , 8, 24924-32	32
238	Aerosol assisted chemical vapour deposition of transparent conductive aluminum-doped zinc oxide thin films from a zinc triflate precursor. <b>2016</b> , 616, 477-481	8
237	Temperature-dependent electrical transport characteristics of a NiO/GaN heterojunction diode. <b>2016</b> , 5, 15-18	13
236	Development of Piezoelectric ZnO Film Sputter-Deposited at Room Temperature by Introducing Oxidized Cr Buffer Layer. <b>2016</b> , 82, 821-827	
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234	Zirconium doped TiO <sub>2</sub> thin films deposited by chemical spray pyrolysis. <b>2016</b> , 387, 539-545	70
233	Morphological tuned preparation of zinc oxide: reduced graphene oxide composites for non-enzymatic fluorescence glucose sensing and enhanced photocatalysis. <b>2016</b> , 122, 1	7
232	TiO <sub>2</sub> /nanoporous silicon hybrid contact for heterojunction crystalline solar cell. <b>2016</b> , 6, 55046-55053	5
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214	Polymorphous ZnO Nanostructures: Zn Polar Surface-Guided Size and Shape Evolution Mechanism and Enhanced Photocatalytic Activity. <b>2017</b> , 9, 3180-3190	11
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196	Electrical and UV detection properties of ZnO thin film based schottky contacts deposited by RF magnetron sputtering. <b>2017</b> ,	0
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191	Zn <sub>x</sub> Zr <sub>y</sub> O <sub>z</sub> thin films grown by DC magnetron sputtering. <b>2017</b> , 214, 1700141	
190	The frequency-dependent AC photoresistance behavior of ZnO thin films grown on different sapphire substrates. <b>2017</b> , 19, 23919-23923	3
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180	Spectroscopic ellipsometry characterization of ZnO:Sn thin films with various Sn composition deposited by remote-plasma reactive sputtering. <b>2017</b> , 421, 557-564	18
179	Physical properties of TiO <sub>2</sub> -doped zinc oxide thin films: Influence of plasma treatment in H <sub>2</sub> and/or Ar gas ambient. <b>2017</b> , 140, 155-160	9
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177	Anisotropic Lattice Distortions in Biogenic Minerals Originated from Strong Atomic Interactions at Organic/Inorganic Interfaces. <b>2017</b> , 4, 1600189	21

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165	Highly hydrogen sensitive micromachined sensors based on aerosol-assisted chemical vapor deposited ZnO rods. <b>2018</b> , 268, 15-21	10
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153	Fabrication of high responsivity deep UV photo-detector based on Na doped ZnO nanocolumns. <b>2018</b> , 51, 185106	15
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146	Green photoluminescence and photoconductivity from screen-printed Mg doped ZnO films. <b>2018</b> , 735, 312-318	29
145	Effect of Pre-Annealing on Thermal and Optical Properties of ZnO and Al <sub>2</sub> O <sub>3</sub> /ZnO Thin Films. <b>2018</b> , 17, 1760017	3
144	Photoreduction of nitrates from waste and drinking water. <b>2018</b> , 5, 17404-17413	9
143	Optical and sensing properties of Al doped ZnO nanocrystalline thin films prepared by spray pyrolysis. <b>2018</b> , 5, 9102-9107	6
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138	Synthesis of thermally stable HfO x N y as gate dielectric for AlGaIn/GaN heterostructure field-effect transistors. <b>2018</b> , 27, 078503	2
137	Room-Temperature Fabricated Thin-Film Transistors Based on Compounds with Lanthanum and Main Family Element Boron. <b>2018</b> , 23,	14
136	Advances in Functional Solution Processed Planar 1D Photonic Crystals. <b>2018</b> , 6, 1800730	76
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111	Fe doping effect of vanadium oxide films for enhanced switching electrochromic performances. <b>2019</b> , 45, 7137-7142	15
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109	Influence of thermal annealing on structural and optical properties of RF-sputtered LiTaO <sub>3</sub> thin films. <b>2019</b> , 6, 026405	5
108	Comparison of the Optical and Electrical Properties of Al-Doped ZnO Films Using a Lorentz Model. <b>2019</b> , 9, 4	3
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101	Research Progress in Rare Earth-Doped Perovskite Manganite Oxide Nanostructures. <b>2020</b> , 15, 9		31
100	Amorphous ultra-wide bandgap ZnOx thin films deposited at cryogenic temperatures. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 215303	2.5	9
99	Photocatalytic synthesis of unsymmetrical thiourea derivatives via visible-light irradiation using nitrogen-doped ZnO nanorods. <b>2020</b> , 44, 14505-14512		7
98	Microstructure and Optical Properties of E-Beam Evaporated Zinc Oxide Films-Effects of Decomposition and Surface Desorption. <b>2020</b> , 13,		2
97	Anti-quorum Sensing and Anti-biofilm Activity of Zinc Oxide Nanospikes. <b>2020</b> , 5, 32203-32215		8
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94	Correlating the size and cation inversion factor in context of magnetic and optical behavior of CoFeO nanoparticles.. <b>2020</b> , 10, 21259-21269		7
93	Optical properties of ultrathin ZnO films fabricated by atomic layer deposition. <b>2020</b> , 527, 146818		9
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91	Characterization of designed, transparent and conductive Al doped ZnO particles and their utilization in conductive polymer composites. <b>2020</b> , 374, 214-222		1
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88	Effects of aging conditions on the morphologies of ZnO particles synthesized under hydrothermal conditions from layered zinc hydroxide as a precursor derived from zinc acetate. <b>2020</b> , 8, 81-93		1
87	Anomalous photoconductivity in chemical spray pyrolysis deposited nano-crystalline ZnO thin films. <b>2020</b> , 247, 122849		11

86	Fastly steady UV response feature of Mn-doped ZnO thin films. <b>2020</b> , 139, 106391	6
85	Study on structural and optical properties of Mn-doped ZnO thin films by sol-gel method. <b>2020</b> , 100, 109657	17
84	Effect of concentration, aging, and annealing on sol gel ZnO and Al-doped ZnO thin films. <b>2020</b> , 15,	18
83	X-ray absorption spectroscopy study of Ga-doping in reactively sputtered ZnO films. <b>2020</b> , 701, 137966	7
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79	Flexible ZnO Nanoparticle-Poly(methyl methacrylate) Hybrid Films and Their Ultraviolet Shielding Behaviors. <b>2021</b> , 73, 432-440	3
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73	Effect of Co-doping level on physical properties of ZnO thin films. <b>2021</b> , 113, 110812	4
72	Performance Improvement for Spray-Coated ZnO TFT by F Doping With Spray-Coated ZnO Gate Insulator. <b>2021</b> , 68, 1063-1069	6
71	Deposition of CZTS ZnO Hetero-Junction Using SILAR and Spray Pyrolysis. <b>2021</b> , 55, 363-372	0
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