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## ZnO nanostructures for optoelectronics: Material properties and device applications

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864	The origin and dynamics of soft X-ray-excited optical luminescence of ZnO. <b>2010</b> , 11, 3625-31		31
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664	Optical properties of (1 0 0) oriented ZnO:Gd films deposited by reactive radio frequency magnetron sputtering. <b>2014</b> , 132, 116-118		10
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662	Enhanced piezoelectric output voltage and Ohmic behavior in Cr-doped ZnO nanorods. <b>2014</b> , 59, 267-271		24
661	Passivation of defects in ZnO nanowires by SiO <sub>2</sub> sputtering deposition. <b>2014</b> , 134, 126-129		5
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639	Physical properties of Gd doped ZnO thin films grown by spray pyrolysis. <b>2015</b> ,		2
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542	Nano-pits on GaAs (1 0 0) surface: Preferential sputtering and diffusion. <b>2016</b> , 379, 52-56		4

541	Changing interfaces: Photoluminescent ZnO nanoparticle powders in different aqueous environments. <b>2016</b> , 652, 253-260		16
540	Plasmonic enhancement of UV emission from ZnO thin films induced by Al nano-concave arrays. <i>Applied Surface Science</i> , <b>2016</b> , 384, 18-26	6.7	16
539	Synthesis and Study of Stable and Size-Controlled ZnO@BiO <sub>2</sub> Quantum Dots: Application as a Humidity Sensor. <b>2016</b> , 120, 11652-11662		41
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531	Conjugated assembly of colloidal zinc oxide quantum dots and multiwalled carbon nanotubes for an excellent photosensitive ultraviolet photodetector. <b>2016</b> , 27, 355204		17
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517	Solution derived p-ZnO/n-Si nanowire heterojunctions for photodetection. <b>2016</b> , 658, 158-161		16
516	Laser nanostructuring of ZnO thin films. <i>Applied Surface Science</i> , <b>2016</b> , 374, 172-176	6.7	8
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511	Hierarchical ZnO nanosheets/nanodisks hydrothermally grown on microrod backbones. <b>2016</b> , 171, 252-259		3
510	A Simple Approach Low-Temperature Solution Process for Preparation of Bismuth-Doped ZnO Nanorods and Its Application in Hybrid Solar Cells. <b>2016</b> , 120, 771-780		25
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506	A facile salicylic acid assisted hydrothermal synthesis of different flower-like ZnO hierarchical architectures with optical and concentration-dependent photocatalytic properties. <b>2016</b> , 114, 185-196		29

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490	Synthesis and microstructural properties of zinc oxide nanoparticles prepared by selective leaching of zinc from spent alkaline batteries using ammoniacal ammonium carbonate. <b>2017</b> , 148, 795-803	23
489	Structural, morphological, ferromagnetic and photoluminescence properties of Fe-doped ZnO, prepared by hydrothermal route. <b>2017</b> , 104, 362-373	20
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487	Structural, photoluminescence and XPS properties of Tm <sup>3+</sup> ions in ZnO nanostructures. <b>2017</b> , 187, 141-153	38
486	Defect-promoted photo-electrochemical performance enhancement of orange-luminescent ZnO nanorod-arrays. <b>2017</b> , 19, 12255-12268	25
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381	Narrowband Ultraviolet Photodetectors Based on Nanocomposite Thin Films with High Gain and Low Driving Voltage. <b>2018</b> , 10, 41552-41561		21
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364	Enhanced H <sub>2</sub> Production of TiO <sub>2</sub> /ZnO Nanowires Co-Using Solar and Mechanical Energy through Piezo-Photocatalytic Effect. <b>2018</b> , 6, 10162-10172		67
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308	Recent Progress in Electrochemical pH-Sensing Materials and Configurations for Biomedical Applications. <b>2019</b> , 119, 5248-5297		86



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305	Traps distribution in sol-gel synthesized ZnO nanoparticles. <b>2019</b> , 245, 103-105		12
304	Europium-doped ZnO nanosponges [Controlling optical properties and photocatalytic activity. <b>2019</b> , 7, 3909-3919		20
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161	Structural, Optical and Electrical Properties of ZnO Nanostructures Synthesized under Different Microwave Power. <b>2021</b> , 57, 784-794		1
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141	Nanostructured ZnO Films with Enhanced Sensitivity to CO Synthesized by AACVD. <b>2021</b> , 66, 1447-1454	3
140	Influence of composition on morphology of semiconducting oxides microwires. <b>2021</b> , 158, 110248	1
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136	Blue light excitable red emitting ZnO and its blend for high CRI white light emitting diodes applications. <b>2022</b> , 241, 118447	3
135	Nanostructure Shape-Effects in ZnO heterogeneous photocatalysis. <b>2022</b> , 606, 588-599	5
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131	Imaging in Nanoscale Using Laser-Plasma Sources of Extreme Ultraviolet (EUV). <b>2014</b> , 269-276	1
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