

# CITATION REPORT

List of articles citing

## Optically pumped lasing of ZnO at room temperature

DOI: 10.1063/1.118824

Applied Physics Letters, 1997, 70, 2230-2232.

**Source:** <https://exaly.com/paper-pdf/28261884/citation-report.pdf>

**Version:** 2024-04-10

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2052	Transmission Electron Microscopy Study of Room Temperature Lasing Epitaxial ZnO Films on Sapphire. <b>1997</b> , 482, 481		4
2051	Room-temperature gain spectra and lasing in microcrystalline ZnO thin films. <b>1998</b> , 184-185, 601-604		106
2050	Room temperature excitonic stimulated emission from zinc oxide epilayers grown by plasma-assisted MBE. <b>1998</b> , 184-185, 605-609		177
2049	Epitaxial growth of ((11bar 20)) ZnO on ((01bar 12)) Al <sub>2</sub> O <sub>3</sub> by metalorganic chemical vapor deposition2) Al <sub>2</sub> O <sub>3</sub> by metalorganic chemical vapor deposition. <b>1998</b> , 27, L72-L76		29
2048	Plasma assisted molecular beam epitaxy of ZnO on c-plane sapphire: Growth and characterization. <b>1998</b> , 84, 3912-3918		1190
2047	Optical functions of uniaxial ZnO determined by generalized ellipsometry. <b>1998</b> , 58, 3586-3589		187
2046	Determination of the optical constants of zinc oxide thin films by spectroscopic ellipsometry. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 3261-3263	3.4	155
2045	Room-temperature ultraviolet laser emission from self-assembled ZnO microcrystallite thin films. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 3270-3272	3.4	1629
2044	Ultraviolet lasing in resonators formed by scattering in semiconductor polycrystalline films. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3656-3658	3.4	421
2043	Crystal Growth of Highly Oriented Zinc Oxide by Laser Deposition Technique with Metal-EDTA (ethylene diamine tetra-acetic acid) Complexes. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, L1165-L1168	1.4	5
2042	Epitaxial Growth of ZnO Films on (0001) Sapphire at Low Temperatures by Electron Cyclotron Resonance-assisted Molecular Beam Epitaxy and Their Microstructural Characterizations. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, 781-785	1.4	43
2041	Optical Recording in Ga and In-Doped Zinc Oxide Thin Films Grown by Radio-Frequency Magnetron Sputtering. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, L50-L52	1.4	7
2040	High temperature excitonic stimulated emission from ZnO epitaxial layers. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 1038-1040	3.4	691
2039	Heteroepitaxy of ZnO on GaN and its implications for fabrication of hybrid optoelectronic devices. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 348-350	3.4	391
2038	A New Approach to Growth of Bulk ZnO Crystals for Wide Bandgap Applications. <b>1998</b> , 512, 41		7
2037	Growth of High Quality Single Crystal ZnO Films on Sapphire by Pulsed Laser Ablation. <b>1998</b> , 526, 305		6
2036	Properties of Epitaxial ZnO Thin Films for GaN and Related Applications. <b>1998</b> , 537, 1		

2035	Large Transmittance Changes Near the Ultraviolet Region Observed on a Laminated Multilayer Structure of Ga <sub>2</sub> O <sub>3</sub> and In <sub>2</sub> O <sub>3</sub> Prepared by the Pulsed Laser Deposition Method. <i>Japanese Journal of Applied Physics</i> , <b>1999</b> , 38, 4802-4803	1.4	6
2034	Fabrication of ZnO nanostructure using near-field optical technology. <b>1999</b> ,		7
2033	Ultraviolet Super-Radiation Luminescence of Sputtering ZnO Film Under Cathode-Ray Excitation at Room Temperature. <b>1999</b> , 16, 146-148		19
2032	Third-order optical nonlinearity in ZnO microcrystallite thin films. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3321-3323	3.4	47
2031	Photovoltaic Effect of ZnO/Si Heterostructure. <b>1999</b> , 16, 753-755		17
2030	Low temperature epitaxial growth of ZnO layer by plasma-assisted epitaxy. <b>1999</b> , 345, 12-17		39
2029	ZnO broadens the spectrum. <b>1999</b> , 12, 28-31		48
2028	UV luminescence and spectral properties of ZnO films deposited on Si substrates. <b>1999</b> , 101-103, 629-632		20
2027	Two-step MBE growth of ZnO layers on electron beam exposed (111)CaF <sub>2</sub> . <b>1999</b> , 207, 87-94		35
2026	Pulsed laser deposition and processing of wide band gap semiconductors and related materials. <b>1999</b> , 28, 275-286		30
2025	Optical properties of epitaxially grown zinc oxide films on sapphire by pulsed laser deposition. <b>1999</b> , 86, 408-411		456
2024	Heteroepitaxial electrodeposition of zinc oxide films on gallium nitride. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3817-3819	3.4	242
2023	High contrast, ultrafast optically addressed ultraviolet light modulator based upon optical anisotropy in ZnO films grown on R-plane sapphire. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 507-509	3.4	131
2022	Residual Native Shallow Donor in ZnO. <b>1999</b> , 82, 2552-2555		982
2021	Femtosecond Time-Resolved Exciton Recombination Dynamics in ZnO Microcrystallite Thin Films at Room Temperature. <b>1999</b> , 16, 728-730		7
2020	Dynamics of photoexcited carriers in ZnO epitaxial thin films. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 469-471	3.4	107
2019	Excitonic structure and absorption coefficient measurements of ZnO single crystal epitaxial films deposited by pulsed laser deposition. <b>1999</b> , 85, 7884-7887		304
2018	ZnO quantum particle thin films fabricated by electrophoretic deposition. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 2939-2941	3.4	434

2017	Production and annealing of electron irradiation damage in ZnO. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 811-813	34	294
2016	Thermal stability of supersaturated Mg <sub>x</sub> Zn <sub>1-x</sub> O alloy films and Mg <sub>x</sub> Zn <sub>1-x</sub> O/ZnO heterointerfaces. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 4088-4090	3-4	133
2015	Kinetics of Electrophoretic Deposition of Zinc Oxide Quantum Particle Thin Films. <b>1999</b> , 11, 1959-1961		30
2014	Oxygen pressure-tuned epitaxy and optoelectronic properties of laser-deposited ZnO films on sapphire. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3947-3949	3-4	297
2013	Structural, optical, and surface acoustic wave properties of epitaxial ZnO films grown on (011 2) sapphire by metalorganic chemical vapor deposition. <b>1999</b> , 85, 2595-2602		667
2012	The Optical and Crystalline Structure Properties of ZnO Thin Films Grown by Rf Magnetron Sputtering. <b>1999</b> , 560, 119		
2011	Exotic Doping for ZnO Thin Films: Possibility of Monolithic Optical Integrated Circuit. <b>1999</b> , 574, 317		8
2010	Room Temperature Operation of UV-LED Composed of TCO Hetero p-n Junction, p-SrCu <sub>2</sub> O <sub>2</sub> /n-ZnO. <b>2000</b> , 623, 283		3
2009	Single Quantum Well Heterostructures of MgZnO/ZnO/MgZnO on C-Plane Sapphire. <b>2000</b> , 623, 359		3
2008	Novel Cubic Zn <sub>x</sub> Mg <sub>1-x</sub> O Epitaxial Heterostructures on Si (100) Substrates. <b>2000</b> , 639, 3531		
2007	Pulsed laser deposited nanocrystalline ZnO thin films. <b>2000</b> , 648, 1		
2006	Evolution of initial layers of plasma-assisted MBE grown ZnO on (0001)GaN/sapphire. <b>2000</b> , 214-215, 81-86		27
2005	Two-dimensional growth of ZnO films on sapphire(0001) with buffer layers. <b>2000</b> , 214-215, 87-91		40
2004	Luminescence properties of ZnO films grown on GaAs substrates by molecular-beam epitaxy excited by electron cyclotron resonance oxygen plasma. <b>2000</b> , 214-215, 280-283		42
2003	Luminescent properties of ZnO thin films grown epitaxially on Si substrate. <b>2000</b> , 214-215, 294-298		46
2002	Time-resolved photoluminescence in ZnO epitaxial thin films studied by up-conversion method. <b>2000</b> , 214-215, 308-311		30
2001	Low-temperature epitaxy of ZnO films on Si(001) and silica by reactive e-beam evaporation. <b>2000</b> , 217, 131-137		77
2000	Synthesis of p-type ZnO films. <b>2000</b> , 216, 330-334		426

1999	Effects of a low-temperature buffer layer on structural properties of ZnO epilayers grown on (111)CaF <sub>2</sub> by two-step MBE. <b>2000</b> , 208, 389-394	19
1998	Atmospheric pressure vapor-phase growth of ZnO using a chloride source. <b>2000</b> , 209, 822-827	29
1997	Nitrogen-induced defects in ZnO:N grown on sapphire substrate by gas source MBE. <b>2000</b> , 209, 526-531	144
1996	Defect characterization in epitaxial ZnO/epi-GaN/Al <sub>2</sub> O <sub>3</sub> heterostructures: transmission electron microscopy and triple-axis X-ray diffractometry. <b>2000</b> , 209, 537-541	46
1995	MBE growth of high-quality ZnO films on epi-GaN. <b>2000</b> , 209, 816-821	97
1994	Pressure effects in ZnO films using off-axis sputtering deposition. <b>2000</b> , 211, 106-110	27
1993	Spectroscopic ellipsometry study of Zn <sub>1-x</sub> Mg <sub>x</sub> O thin films deposited on Al <sub>2</sub> O <sub>3</sub> (0001). <b>2000</b> , 115, 127-130	65
1992	ZnO as a novel photonic material for the UV region. <b>2000</b> , 75, 190-198	372
1991	Control and characterization of ZnO/GaN heterointerfaces in plasma-assisted MBE-grown ZnO films on GaN/Al <sub>2</sub> O <sub>3</sub> . <b>2000</b> , 159-160, 441-448	28
1990	Quasiparticle Energy Calculations on II(Zn)-VI(O, S, Se) and III(Al,Ga)-V(N) Semiconductors in the Wurtzite Structure. <b>2000</b> , 69, 2113-2120	33
1989	Fabrication of an Ultraviolet Light-Emitting Functional Probe of Sub-Micron Size by Photochemical Vapor Deposition. <b>2000</b> , 7, 486-488	3
1988	ZnO/GaN heterointerfaces and ZnO films grown by plasma-assisted molecular beam epitaxy on (0001) GaN/Al <sub>2</sub> O <sub>3</sub> . <b>2000</b> , 18, 2313	29
1987	Plasma-assisted molecular beam epitaxy for ZnO based III-V semiconductor oxides and their heterostructures. <b>2000</b> , 18, 1514	30
1986	Nonlinear Effects Excitonic Emission from High Quality Homoepitaxial Diamond Films. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, L835-L837	1.4 33
1985	Structural and Optical Characterizations of ZnO Films Grown by Reactive Electron Beam Evaporation. <b>2000</b> , 17, 694-696	8
1984	Epitaxial Growth and Ultraviolet Photoluminescence of CaF <sub>2</sub> /ZnO/CaF <sub>2</sub> Heterostructures on Si(111). <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, L500-L502	1.4 14
1983	Defects and interfaces in an epitaxial ZnO/LiTaO <sub>3</sub> heterostructure. <b>2000</b> , 88, 5107-5112	13
1982	In-plane anisotropic strain of ZnO closely packed microcrystallites grown on tilted (0001) sapphire. <b>2000</b> , 88, 2480-2483	16

1981	Plasma-assisted molecular-beam epitaxy of ZnO epilayers on atomically flat MgAl <sub>2</sub> O <sub>4</sub> (111) substrates. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 245-247	3-4	93
1980	Electronic structures of polycrystalline ZnO thin films probed by electron energy loss spectroscopy. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1484-1486	3-4	23
1979	Biexciton emission from high-quality ZnO films grown on epitaxial GaN by plasma-assisted molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 537-539	3-4	117
1978	Homoepitaxial growth mechanism of ZnO(0001): Molecular-dynamics simulations. <b>2000</b> , 61, 16187-16192		39
1977	Photoluminescence and heteroepitaxy of ZnO on sapphire substrate (0001) grown by rf magnetron sputtering. <b>2000</b> , 18, 2864-2868		74
1976	Surface texture and structure of ZnO films synthesized by off-axis sputtering deposition. <b>2000</b> , 15, 1125-1130	9	
1975	Stimulated emission induced by exciton-exciton scattering in ZnO/ZnMgO multiquantum wells up to room temperature. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 4250-4252	3-4	121
1974	Exciton spectra of ZnO epitaxial layers on lattice-matched substrates grown with laser-molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3549-3551	3-4	183
1973	First-principles study of native point defects in ZnO. <b>2000</b> , 61, 15019-15027		1454
1972	Preparation and Characterization of ZnO Clusters inside Mesoporous Silica. <b>2000</b> , 12, 1408-1413		267
1971	Refractive indices and absorption coefficients of Mg <sub>x</sub> Zn <sub>1-x</sub> O alloys. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 979-981	3-4	175
1970	Structural evolution of ZnO/sapphire(001) heteroepitaxy studied by real time synchrotron x-ray scattering. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 349-351	3-4	41
1969	Radiative and nonradiative recombination processes in lattice-matched (Cd,Zn)O/(Mg,Zn)O multiquantum wells. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1632-1634	3-4	156
1968	Spectroscopic ellipsometry of epitaxial ZnO layer on sapphire substrate. <b>2000</b> , 87, 7820-7824		111
1967	Current injection emission from a transparent p-n junction composed of p-SrCu <sub>2</sub> O <sub>2</sub> /n-ZnO. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 475-477	3-4	508
1966	Ga-doped ZnO films grown on GaN templates by plasma-assisted molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3761-3763	3-4	332
1965	Room-temperature luminescence of excitons in ZnO/(Mg, Zn)O multiple quantum wells on lattice-matched substrates. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 975	3-4	201
1964	Nanofabrication and atom manipulation by optical near-field and relevant quantum optical theory. <b>2000</b> , 88, 1499-1518		27

1963	Room-temperature stimulated emission of excitons in ZnO/(Mg, Zn)O superlattices. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2204-2206	3-4	224
1962	Time-resolved photoluminescence lifetime measurements of the $\Gamma$ and $\Gamma$ free excitons in ZnO. <b>2000</b> , 88, 2152-2153		129
1961	Metalorganic vapor-phase epitaxial growth and photoluminescent properties of Zn <sub>1-x</sub> Mg <sub>x</sub> O (0 ≤ x ≤ 0.49) thin films. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 2022-2024	3-4	361
1960	Single Nanowire Lasers. <b>2001</b> , 105, 11387-11390		388
1959	Biexciton luminescence in high-quality ZnO epitaxial thin films. <b>2001</b> , 90, 4973-4976		67
1958	Band gap engineering based on Mg <sub>x</sub> Zn <sub>1-x</sub> O and Cd <sub>y</sub> Zn <sub>1-y</sub> O ternary alloy films. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1237-1239	3-4	589
1957	Purpose-Built Anisotropic Metal Oxide Material: 3D Highly Oriented Microrod Array of ZnO. <b>2001</b> , 105, 3350-3352		815
1956	Three-Dimensional Array of Highly Oriented Crystalline ZnO Microtubes. <b>2001</b> , 13, 4395-4398		836
1955	Defect Photoluminescence of Undoping ZnO Films and Its Dependence on Annealing Conditions. <b>2001</b> , 148, G110		95
1954	Photoluminescence properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O alloy thin films fabricated by the sol-gel deposition method. <b>2001</b> , 90, 5561-5563		77
1953	Biexciton emission from ZnO/Zn <sub>0.74</sub> Mg <sub>0.26</sub> O multiquantum wells. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3385-3387	3-4	59
1952	Room-temperature ultraviolet nanowire nanolasers. <b>2001</b> , 292, 1897-9		793 <sup>1</sup>
1951	Well-width dependence of radiative and nonradiative recombination times in ZnO/Mg <sub>0.12</sub> Zn <sub>0.88</sub> O multiple quantum wells. <b>2001</b> , 90, 3650-3652		33
1950	Temperature dependence of excitonic absorption spectra in ZnO/Zn <sub>0.88</sub> Mg <sub>0.12</sub> O multiquantum wells grown on lattice-matched substrates. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 2464-2466	3-4	85
1949	Electronic structure of the transparent p-type semiconductor (LaO)CuS. <b>2001</b> , 64,		108
1948	Strain effects on exciton resonance energies of ZnO epitaxial layers. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1282-1284	3-4	81
1947	Effect of a microstructure on the formation of self-assembled laser cavities in polycrystalline ZnO. <b>2001</b> , 90, 1663-1665		43
1946	Zinc Oxide. <b>2001</b> , 9883-9887		1

1945	Green luminescent center in undoped zinc oxide films deposited on silicon substrates. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 943-945	3-4	1797
1944	Growth modes and microstructures of ZnO layers deposited by plasma-assisted molecular-beam epitaxy on (0001) sapphire. <b>2001</b> , 90, 5115-5119		41
1943	Compensation mechanism for N acceptors in ZnO. <b>2001</b> , 64,		338
1942	Structural and optical properties of ZnO thin films produced by filtered cathodic vacuum arc. <b>2001</b> , 398-399, 244-249		55
1941	Growth of Undoped ZnO Films with Improved Electrical Properties by Radical Source Molecular Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, 250-254	1-4	77
1940	Low-resistance and nonalloyed ohmic contacts to plasma treated ZnO. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3842-3844	3-4	128
1939	Low-pressure chemical vapour deposition growth of high-quality ZnO films on epi-GaN/Al <sub>2</sub> O <sub>3</sub> . <b>2001</b> , 13, L211-L214		31
1938	Effects of As Doping on Properties of ZnO Films. <b>2001</b> , 692, 1		
1937	Growth of Highly Oriented ZnO Nanorods by Chemical Vapor Deposition. <b>2001</b> , 703, 1		4
1936	Optically pumped stimulated emission in ZnO/ZnMgO multiple quantum wells prepared by combinatorial techniques. <b>2001</b> ,		2
1935	Electrochemical schottky characteristics of ZnO for capacitance-voltage measurements. <b>2001</b> , 30, L40-L42		3
1934	The ultraviolet and blue luminescence properties of ZnO:Zn thin film. <b>2001</b> , 46, 1223-1226		10
1933	ZnO and related materials: Plasma-Assisted molecular beam epitaxial growth, characterization and application. <b>2001</b> , 30, 647-658		28
1932	ZnO growth toward optical devices by MOVPE using N <sub>2</sub> O. <b>2001</b> , 30, 659-661		15
1931	A FPMTO study on the native shallow donor in ZnO. <b>2001</b> , 114-116, 1123-1125		14
1930	Doping effects on optical properties of epitaxial ZnO layers determined by spectroscopic ellipsometry. <b>2001</b> , 175-176, 543-548		46
1929	Variation of bandgap with oxygen ambient pressure in Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films grown by pulsed laser deposition. <b>2001</b> , 117, 673-677		14
1928	Room temperature UV emission of Mg <sub>x</sub> Zn <sub>1-x</sub> O films. <b>2001</b> , 119, 409-413		38



1927	Novel cubic $\text{Zn}_x\text{Mg}_{1-x}\text{O}$ epitaxial heterostructures on Si (100) substrates. <b>2001</b> , 121, 9-13	111
1926	Microstructural and optical properties of ZnO thin films grown on InSb (111) substrates. <b>2001</b> , 62, 1199-1203	2
1925	Comparison of the electron effective mass of the n-type ZnO in the wurtzite structure measured by cyclotron resonance and calculated from first principle theory. <b>2001</b> , 298, 472-476	75
1924	Defect analysis and engineering in ZnO. <b>2001</b> , 308-310, 899-903	218
1923	First-principles study of the compensation mechanism in N-doped ZnO. <b>2001</b> , 308-310, 912-915	41
1922	Recent advances in ZnO materials and devices. <b>2001</b> , 80, 383-387	2334
1921	Electrical properties and Raman spectra of undoped and Al-doped ZnO thin films by metalorganic vapor phase epitaxy. <b>2001</b> , 86, 109-112	64
1920	Pulsed laser reactive deposition of p-type ZnO film enhanced by an electron cyclotron resonance source. <b>2001</b> , 223, 135-139	207
1919	Polycrystalline ZnO thin films on Si (100) deposited by filtered cathodic vacuum arc. <b>2001</b> , 223, 201-205	192
1918	Plasma-assisted molecular beam epitaxy of ZnO thin films on sapphire substrates with an MgO buffer. <b>2001</b> , 227-228, 917-922	20
1917	Growth and characterization of undoped ZnO films for single crystal based device use by radical source molecular beam epitaxy (RS-MBE). <b>2001</b> , 227-228, 923-928	34
1916	Nitrogen doped ZnO film grown by the plasma-assisted metal-organic chemical vapor deposition. <b>2001</b> , 226, 123-129	114
1915	Initial preferred growth in zinc oxide thin films on Si and amorphous substrates by a pulsed laser deposition. <b>2001</b> , 226, 493-500	219
1914	Resonant Raman scattering and photoluminescence from high-quality nanocrystalline ZnO thin films prepared by thermal oxidation of ZnS thin films. <b>2001</b> , 34, 3430-3433	61
1913	Shallow-Donor Hydrogen-Like Impurities in ZnO Studied by MuSR. <b>2001</b> , 136/137, 659-662	3
1912	Recent Progress in the Study on Muonium Centers in Semiconductors. <b>2001</b> , 138, 515-520	
1911	Dynamics of newly observed biexcitons in ZnO epitaxial thin films. <b>2001</b> , 94-95, 373-377	2
1910	DEPENDENCE OF SECOND HARMONIC GENERATION ON SIZE OF NANOCRYSTALLITES OF ZnO. <b>2001</b> , 15, 515-521	11

1909	PHOTOLUMINESCENCE OF BIEXCITON IN ZnO EPITAXIAL THIN FILMS. <b>2001</b> , 15, 3611-3614		1
1908	BANDGAP RENORMALIZATION DUE TO HIGH-DENSITY CARRIERS IN ZnO EPITAXIAL THIN FILMS. <b>2001</b> , 15, 3737-3740		2
1907	Enhanced ultraviolet emission and optical properties in polyvinyl pyrrolidone surface modified ZnO quantum dots. <b>2001</b> , 90, 4489-4493		125
1906	Electrical Properties of the ZnO/Si Heterostructure. <b>2001</b> , 18, 1108-1110		12
1905	Photoluminescent Properties of ZnO Films Deposited on Si Substrates. <b>2001</b> , 18, 441-442		36
1904	Submicron structure and acoustic properties of ZnO films deposited on (100) InP by pulsed laser deposition. <b>2001</b> , 19, 224		24
1903	Native Point Defect States in ZnO. <b>2001</b> , 18, 1252-1253		29
1902	Fabrication and characterization of ultraviolet-emitting diodes composed of transparent p-n heterojunction, p-SrCu <sub>2</sub> O <sub>2</sub> and n-ZnO. <b>2001</b> , 89, 5720-5725		159
1901	Temperature dependence of near ultraviolet photoluminescence in ZnO/(Mg, Zn)O multiple quantum wells. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1979-1981	3-4	91
1900	Stimulated emission and optical gain in ZnO epilayers grown by plasma-assisted molecular-beam epitaxy with buffers. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1469-1471	3-4	159
1899	Polariton and free-exciton-like photoluminescence in ZnO. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 3794-3796	3-4	54
1898	Dry Etching of ZnO Using an Inductively Coupled Plasma. <b>2001</b> , 148, G1		78
1897	Interactions between gallium and nitrogen dopants in ZnO films grown by radical-source molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 4139-4141	3-4	123
1896	Defect characterization in ZnO layers grown by plasma-enhanced molecular-beam epitaxy on (0001) sapphire substrates. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 194-196	3-4	102
1895	Thermal stability of ion-implanted hydrogen in ZnO. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 3996-3998	3-4	91
1894	Effects of slight misorientation of GaN templates on molecular-beam-epitaxy growth of ZnO. <b>2002</b> , 92, 1960-1963		10
1893	Electrical conductivity control in transparent p-type (LaO)CuS thin films prepared by rf sputtering. <b>2002</b> , 91, 9177-9181		60
1892	Zn-triggered critical behavior of the formation of highly coherent domains in a Mg <sub>1-x</sub> Zn <sub>x</sub> O thin film on Al <sub>2</sub> O <sub>3</sub> . <b>2002</b> , 66,		9

1891	Photoluminescence properties of ZnO epitaxial layers grown on lattice-matched ScAlMgO <sub>4</sub> substrates. <b>2002</b> , 92, 7157-7159		26
1890	Systematic examination of carrier polarity in composition spread ZnO thin films codoped with Ga and N. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 235-237	3-4	90
1889	Effect of high-density plasma etching on the optical properties and surface stoichiometry of ZnO. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 3546-3548	3-4	53
1888	Electronic structure of the muonium center as a shallow donor in ZnO. <b>2002</b> , 89, 255505		92
1887	Large second harmonic response in ZnO thin films. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 401-403	3-4	75
1886	Postgrowth annealing effect on structural and optical properties of ZnO films grown on GaAs substrates by the radio frequency magnetron sputtering technique. <b>2002</b> , 92, 154-158		50
1885	TEMPERATURE AND TIME DEPENDENCE OF EMISSION PROPERTIES OF ZnO FILMS DEPOSITED ON Si SUBSTRATES. <b>2002</b> , 09, 699-703		
1884	HETERO-GROWTH OF (100) ORIENTATED ZNO FILMS ON SILICON BY SS-CVD. <b>2002</b> , 16, 4250-4254		1
1883	Control of ZnO film polarity. <b>2002</b> , 20, 1656		17
1882	Photoluminescence and Optically Pumped Ultraviolet Lasing from Nanocrystalline ZnO Thin Films Prepared by Thermal Oxidation of High-Quality ZnS Thin Films. <b>2002</b> , 19, 127-130		14
1881	Pulsed Laser Deposition of Stable Cubic ZnO/MgO Multilayers. <b>2002</b> , 744, 1		
1880	Passivation of Defects in ZnO by Hydrogen Plasma Irradiation. <b>2002</b> , 744, 1		1
1879	Control of crystal polarity in a wurtzite crystal: ZnO films grown by plasma-assisted molecular-beam epitaxy on GaN. <b>2002</b> , 65,		94
1878	Studies of the plume accompanying pulsed ultraviolet laser ablation of zinc oxide. <b>2002</b> , 92, 6886-6894		83
1877	Electrocrystallization of Epitaxial Zinc Oxide onto Gallium Nitride. <b>2002</b> , 14, 4702-4708		72
1876	ZnO Metal Organic Vapor Phase Epitaxy: Present State and Prospective Application in Optoelectronics and Spin Electronics. <b>2002</b> , 81-91		4
1875	Correlation between grain size and optical properties in zinc oxide thin films. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 1231-1233	3-4	148
1874	The mechanisms of blue emission from ZnO films deposited on glass substrate by r.f. magnetron sputtering. <b>2002</b> , 35, 2837-2840		199

1873	Investigation of ZnO epilayers grown under various Zn/O ratios by plasma-assisted molecular-beam epitaxy. <b>2002</b> , 92, 4354-4360		112
1872	Enhancement of exciton binding energies in ZnO/ZnMgO multiquantum wells. <b>2002</b> , 91, 1993-1997		163
1871	Enhancement of the light emissions from zinc oxide films by controlling the post-treatment ambient. <b>2002</b> , 91, 5640-5644		117
1870	Nitrogen-related local vibrational modes in ZnO:N. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1909-1911	3-4	407
1869	Structure and optically pumped lasing from nanocrystalline ZnO thin films prepared by thermal oxidation of ZnS thin films. <b>2002</b> , 92, 3293-3298		87
1868	Band-edge emission of undoped and doped ZnO single crystals at room temperature. <b>2002</b> , 91, 3658-3663		53
1867	Optical properties of ZnO:Al epilayers: Observation of room-temperature many-body absorption-edge singularity. <b>2002</b> , 65,		49
1866	Effect of hydrogen doping on ultraviolet emission spectra of various types of ZnO. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2869-2871	3-4	167
1865	Catalyst-Free Growth and Characterization of ZnO Nanorods. <b>2002</b> , 106, 9546-9551		364
1864	Behind the weak excitonic emission of ZnO quantum dots: ZnO/Zn(OH) <sub>2</sub> core-shell structure. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 210-212	3-4	283
1863	Comparisons of Structural and Optical Properties of ZnO Films Grown on Sapphire and Si(001). <b>2002</b> , 19, 1714-1717		10
1862	Comparative study of ZnO:Al films on Si and glass prepared by rf magnetron sputtering at room temperature.		1
1861	Production of nitrogen acceptors in ZnO by thermal annealing. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1334-1336	3-4	181
1860	Role of copper in the green luminescence from ZnO crystals. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 622-624	3-4	488
1859	Strategies for Controlling the Conductivity of Wide-Band-Gap Semiconductors. <b>2002</b> , 229, 221-228		84
1858	Interface Engineering in ZnO Epitaxy. <b>2002</b> , 229, 803-813		10
1857	Study on the Structural Transformation Process from ZnS Epitaxial Film Grown on Si Substrate to ZnO Epitaxial Film by Oxidation. <b>2002</b> , 229, 829-833		7
1856	MOCVD Growth of ZnO on Different Substrate Materials. <b>2002</b> , 229, 841-844		35

1855	Optical Properties of as-Grown and Proton Irradiated ZnO. <b>2002</b> , 229, 859-862	9
1854	Well-Width Dependence of Radiative and Nonradiative Lifetimes in ZnO-Based Multiple Quantum Wells. <b>2002</b> , 229, 863-866	7
1853	Observation of Biexciton Emission in ZnO/ZnMgO Multi-Quantum Wells. <b>2002</b> , 229, 867-870	6
1852	Bound Biexciton Photoluminescence in ZnO Epitaxial Thin Films. <b>2002</b> , 229, 871-875	9
1851	Dynamics of Photoexcited High Density Carriers in ZnO Epitaxial Thin Films. <b>2002</b> , 229, 877-880	29
1850	MOCVD Growth of ZnO for Optoelectronic Applications. <b>2002</b> , 192, 166-170	38
1849	Photoreflectance and Photoluminescence of Exciton-Polaritons in a ZnO Epilayer Grown on the a-Face of Sapphire by Radical-Source Molecular-Beam Epitaxy. <b>2002</b> , 192, 171-176	7
1848	Codoping Method for Solutions of Doping Problems in Wide-Band-Gap Semiconductors. <b>2002</b> , 193, 423-433	44
1847	Low-Temperature Growth of Well-Aligned ZnO Nanorods by Chemical Vapor Deposition. <b>2002</b> , 14, 215-218	1091
1846	Structural and optical properties of nanocrystalline ZnO films grown by cathodic electrodeposition on Si substrates. <b>2002</b> , 322, 31-36	34
1845	Plume dynamics in ZnO under ArF laser radiation. <b>2002</b> , 197-198, 268-272	5
1844	Violet luminescence emitted from ZnO films deposited on Si substrate by rf magnetron sputtering. <b>2002</b> , 201, 123-128	99
1843	Photoluminescence and structure of ZnO films deposited on Si substrates by metal-organic chemical vapor deposition. <b>2002</b> , 402, 302-306	59
1842	Structural properties of magnetron sputtered ZnO films with incorporated iron. <b>2002</b> , 406, 40-45	5
1841	Improvement in the crystallinity of ZnO thin films by introduction of a buffer layer. <b>2002</b> , 411, 60-64	81
1840	Bandgap renormalization of ZnO epitaxial thin films. <b>2002</b> , 122, 29-32	35
1839	Single gallium nitride nanowire lasers. <b>2002</b> , 1, 106-10	1036
1838	Temperature dependence of excitonic luminescence from nanocrystalline ZnO films. <b>2002</b> , 99, 149-154	79

1837	High-throughput optical characterization for the development of a ZnO-based ultraviolet semiconductor-laser. <b>2002</b> , 189, 277-283		19
1836	A challenge in molecular beam epitaxy of ZnO: control of material properties by interface engineering. <b>2002</b> , 409, 153-160		34
1835	Structural and optical properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films prepared by the sol-gel method. <b>2002</b> , 234, 427-430		36
1834	Growth of N-doped and Ga+N-codoped ZnO films by radical source molecular beam epitaxy. <b>2002</b> , 237-239, 503-508		53
1833	CdO epitaxial layers grown on (0 0 1) GaAs surfaces by metalorganic molecular-beam epitaxy. <b>2002</b> , 237-239, 518-522		14
1832	Growth and characterization of Ga-doped ZnO layers on a-plane sapphire substrates grown by molecular beam epitaxy. <b>2002</b> , 237-239, 538-543		133
1831	High intense UV-luminescence of nanocrystalline ZnO thin films prepared by thermal oxidation of ZnS thin films. <b>2002</b> , 240, 463-466		30
1830	ZnO thin film grown on silicon by metal-organic chemical vapor deposition. <b>2002</b> , 243, 13-18		30
1829	Crystal growth of undoped ZnO films on Si substrates under different sputtering conditions. <b>2002</b> , 243, 439-443		74
1828	Synthesis and optical properties of tetrapod-like zinc oxide nanorods. <b>2002</b> , 358, 83-86		354
1827	Time-resolved and time-integrated photoluminescence in ZnO epilayers grown on Al <sub>2</sub> O <sub>3</sub> (0001) by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1924-1926	3-4	159
1826	ZnO Films Deposited by Electron-Beam Evaporation: The Effect of Ion Bombardment. <b>2002</b> , 31, 193-199		7
1825	Optical Cavity Effects in ZnO Nanowire Lasers and Waveguides. <b>2003</b> , 107, 8816-8828		548
1824	Optical properties of the ZnO nanotubes synthesized via vapor phase growth. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1689-1691	3-4	561
1823	Enhancement of near-band-edge photoluminescence from ZnO films by face-to-face annealing. <b>2003</b> , 259, 335-342		116
1822	Zinc oxide nanorods and their photoluminescence property. <b>2003</b> , 18, 20-22		
1821	Large-scale synthesis of ZnO nanowires using a low-temperature chemical route and their photoluminescence properties. <b>2003</b> , 77, 363-366		28
1820	X-ray diffraction analysis of Zn <sub>0.85</sub> Co <sub>0.15</sub> O powder and thin films. <b>2003</b> , 38, 1791-1796		6

1819	The electronic structure and spectral properties of ZnO and its defects. <b>2003</b> , 199, 286-290		356
1818	Improved photoluminescence properties of oxidized anodically etched porous Zn. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 79, 9-14	4-4	11
1817	A CTAB-assisted hydrothermal orientation growth of ZnO nanorods. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 78, 99-104	4-4	283
1816	Self-organized growth of ZnO single crystal columns array. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 80, 366-370	4-4	20
1815	Optical gain in self-assembled ZnO microcrystallite thin films. <b>2003</b> , 259, 286-290		16
1814	Optical absorption of a Li-related impurity in ZnO. <b>2003</b> , 340-342, 225-229		9
1813	Bicrystalline zinc oxide nanowires. <b>2003</b> , 375, 96-101		126
1812	Evolution of visible luminescence in ZnO by thermal oxidation of zinc films. <b>2003</b> , 375, 113-118		69
1811	Growth mode control of ZnO toward nanorod structures or high-quality layered structures by metal-organic vapor phase epitaxy. <b>2003</b> , 248, 25-30		86
1810	MOVPE growth of ZnO using various oxygen precursors. <b>2003</b> , 248, 20-24		42
1809	Effects of RF power on properties of ZnO thin films grown on Si (001) substrate by plasma enhanced chemical vapor deposition. <b>2003</b> , 249, 179-185		54
1808	Effects of growth temperature on the properties of ZnO/GaAs prepared by metalorganic chemical vapor deposition. <b>2003</b> , 250, 437-443		39
1807	Preparation and characterization of nanocrystalline zinc oxide by a novel solvothermal oxidation route. <b>2003</b> , 252, 184-189		50
1806	Doping effects in ZnO layers using Li <sub>3</sub> N as a doping source. <b>2003</b> , 251, 628-632		9
1805	Observations of nitrogen-related photoluminescence bands from nitrogen-doped ZnO films. <b>2003</b> , 252, 265-269		44
1804	Time-resolved photoluminescence study of a ZnO thin film grown on a (1 0 0) silicon substrate. <b>2003</b> , 253, 252-257		28
1803	Preparation and characteristics of p-type ZnO films by DC reactive magnetron sputtering. <b>2003</b> , 253, 258-264		88
1802	Photoconductive UV detectors on sol-gel-synthesized ZnO films. <b>2003</b> , 256, 73-77		195

1801	High-quality ZnO/GaN/Al <sub>2</sub> O <sub>3</sub> heteroepitaxial structure grown by LPMOCVD. <b>2003</b> , 258, 130-134		17
1800	Effects of annealing of MgO buffer layer on structural quality of ZnO layers grown by P-MBE on c-sapphire. <i>Materials Science in Semiconductor Processing</i> , <b>2003</b> , 6, 371-374	4.3	8
1799	Tailoring of room temperature excitonic luminescence in sol-gel zinc oxide-silica nanocomposite films. <b>2003</b> , 441, 228-237		63
1798	Study on MgO buffer in ZnO layers grown by plasma-assisted molecular beam epitaxy on Al <sub>2</sub> O <sub>3</sub> (0001). <b>2003</b> , 445, 213-218		23
1797	The octa-twin tetraleg ZnO nanostructures. <b>2003</b> , 126, 629-633		159
1796	Comparative studies on structural and optical properties of ZnO films grown on c-plane sapphire and GaAs (001) by MOCVD. <b>2003</b> , 126, 623-627		37
1795	Donor-acceptor pair luminescence in nitrogen-doped ZnO films grown on lattice-matched ScAlMgO <sub>4</sub> (0001) substrates. <b>2003</b> , 127, 265-269		91
1794	Optical parameters in ZnO nanocrystalline textured films grow on p-InP (100) substrates. <b>2003</b> , 127, 635-638		18
1793	ICP dry etching of ZnO and effects of hydrogen. <b>2003</b> , 47, 2289-2294		17
1792	Glancing-angle ion-assisted deposition of ZnO thin films. <b>2003</b> , 538, L460-L464		10
1791	Influence of annealing on ZnO thin film grown by plasma-assisted MOCVD. <b>2003</b> , 69, 473-476		27
1790	Recent progress in processing and properties of ZnO. <i>Superlattices and Microstructures</i> , <b>2003</b> , 34, 3-32	2.8	308
1789	Characteristics of MIS capacitors using Ta <sub>2</sub> O <sub>5</sub> films deposited on ZnO/p-Si. <b>2003</b> , 66, 637-642		3
1788	Photoluminescence of ZnO films excited with light of different wavelength. <b>2003</b> , 207, 20-25		104
1787	Properties of annealed anodically etched porous Zn studied by scanning tunneling microscopy. <b>2003</b> , 217, 50-55		5
1786	Effects of ZnO buffer layer thickness on properties of ZnO thin films deposited by radio-frequency magnetron sputtering. <b>2003</b> , 207, 359-364		86
1785	Photoluminescence of ZnO films prepared by r.f. sputtering on different substrates. <b>2003</b> , 220, 12-18		62
1784	The electronic properties of native interstitials in ZnO. <b>2003</b> , 325, 157-163		49



1783	Variation of light emitting properties of ZnO thin films depending on post-annealing temperature. <b>2003</b> , 102, 313-316	106
1782	Effect of high substrate temperature on Al-doped ZnO thin films grown by pulsed laser deposition. <b>2003</b> , 103, 9-15	277
1781	Characterization of regular ZnO and ZnxCd1-xO nano-donuts cast in particle templated porous membranes. <b>2003</b> , 17, 489-493	8
1780	Energy transfer from the host to Eu <sup>3+</sup> in ZnO. <i>Optical Materials</i> , <b>2003</b> , 23, 27-32	3-3 79
1779	Hydrogen as a shallow center in semiconductors and oxides. <b>2003</b> , 235, 89-95	53
1778	Annealing effects of ZnO films deposited on (0001) Al <sub>2</sub> O <sub>3</sub> and (111) Si substrate by RF sputtering and GaN layer grown on ZnO films used as buffer layer by MOCVD. <b>2003</b> , 2111-2115	
1777	Electrical and optical characterization of n-type ZnO thin films. <b>2003</b> , 626-630	30
1776	Copper-catalyzed ZnO nanowires on silicon (100) grown by vapor-liquid-solid process. <b>2003</b> , 247, 357-362	231
1775	Structural properties of CdO layers grown on GaAs (001) substrates by metalorganic molecular beam epitaxy. <b>2003</b> , 252, 219-225	3
1774	Effects of RF power variation on properties of ZnO thin films and electrical properties of p-n homojunction. <b>2003</b> , 254, 449-455	81
1773	Structural and photoluminescent properties of ternary Zn <sub>1-x</sub> Cd <sub>x</sub> O crystal films grown on Si(1 1 1) substrates. <b>2003</b> , 256, 78-82	58
1772	Evolution and growth of ZnO thin films on GaN(0001) epilayers via metalorganic vapor phase epitaxy. <b>2003</b> , 257, 255-262	22
1771	Passivation of active recombination centers in ZnO by hydrogen doping. <b>2003</b> , 93, 6386-6392	103
1770	Angle-resolved photoelectron spectroscopy study of the anion-derived dangling-bond band on ZnO(1010). <b>2003</b> , 68,	33
1769	Self-assembly of well-aligned gallium-doped zinc oxide nanorods. <b>2003</b> , 94, 5240	122
1768	Temperature dependence of the free-exciton transition energy in zinc oxide by photoluminescence excitation spectroscopy. <b>2003</b> , 94, 973-978	324
1767	Compositionally-tuned epitaxial cubic Mg <sub>x</sub> Zn <sub>1-x</sub> O on Si(100) for deep ultraviolet photodetectors. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3424-3426	3-4 211
1766	Growth mechanism and characterization of zinc oxide hexagonal columns. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3797-3799	3-4 106

1765	Photoluminescence study of ZnO films prepared by thermal oxidation of Zn metallic films in air. <b>2003</b> , 94, 354-358		356
1764	Optical and structural analysis of ZnCdO layers grown by metalorganic vapor-phase epitaxy. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3290-3292	3-4	165
1763	Resonant exciton second-harmonic generation in self-assembled ZnO microcrystallite thin films. <b>2003</b> , 15, 5191-5196		39
1762	Photoluminescence of ZnO nanocrystallites confined in sol-gel silica matrix. <b>2003</b> , 36, 146-151		42
1761	Rational Design and Fabrication of ZnO Nanotubes from Nanowire Templates in a Microwave Plasma System. <b>2003</b> , 107, 10114-10118		129
1760	Growth and luminescence characterization of large-scale zinc oxide nanowires. <b>2003</b> , 15, 2221-2226		87
1759	Realization of p-type ZnO thin films via phosphorus doping and thermal activation of the dopant. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 63-65	3-4	555
1758	Intensity dependence and transient dynamics of donor-acceptor pair recombination in ZnO thin films grown on (001) silicon. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2290-2292	3-4	168
1757	Synthesis and optical properties of S-doped ZnO nanowires. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4791-4793	3-4	141
1756	Density-functional study of the structure and stability of ZnO surfaces. <b>2003</b> , 67,		501
1755	Novel Synthesis Pathway of ZnO Nanoparticles from the Spontaneous Hydrolysis of Zinc Carboxylate Salts. <b>2003</b> , 107, 12597-12604		99
1754	Structural and optical properties of ZnO films grown on the AAO templates. <b>2003</b> , 57, 4187-4190		47
1753	Ultraviolet amplified spontaneous emission from zinc oxide ridge waveguides on silicon substrate. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4288-4290	3-4	50
1752	Transparent thin film transistors using ZnO as an active channel layer and their electrical properties. <b>2003</b> , 93, 1624-1630		454
1751	Comprehensive study of ZnO films prepared by filtered cathodic vacuum arc at room temperature. <b>2003</b> , 94, 1597-1604		191
1750	Room-temperature ultraviolet light-emitting zinc oxide micropatterns prepared by low-temperature electrodeposition and photoresist. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4930-4932	3-4	58
1749	Optical recombination of ZnO nanowires grown on sapphire and Si substrates. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 165-167	3-4	158
1748	Fabrication of stable wide-band-gap ZnO/MgO multilayer thin films. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2010-2012	3-4	100

1747	Y2O2S : Eu3+ nanocrystals Synthesis and luminescent properties. <b>2003</b> , 13, 1778-1782		75
1746	Electrical characteristics of Au and Ag Schottky contacts on n-ZnO. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1575-1577	3-4	168
1745	Modeling and simulation of polycrystalline ZnO thin-film transistors. <b>2003</b> , 94, 7768		255
1744	Efficient third-harmonic generation in a thin nanocrystalline film of ZnO. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3993-3995	3-4	87
1743	Preparation of gallium-doped ZnO films by oxidized ZnS films. <b>2003</b> , 18, L27-L30		25
1742	Effects of H[sub 2] Annealing Treatment on Photoluminescence and Structure of ZnO:Al/Al[sub 2]O[sub 3] Grown by Radio-Frequency Magnetron Sputtering. <b>2003</b> , 150, H225		21
1741	Accelerated Reliability Test Inputs in Analyzing the Device Response of MgZnO Based UV Detector. <b>2003</b> , 785, 1451		
1740	Synthesis and Strong Blue-Green Emission Properties of ZnO Nanowires. <b>2003</b> , 20, 928-931		15
1739	Structure and photoluminescence properties of ZnO microrods. <b>2003</b> , 94, 5605-5608		28
1738	Photoluminescence of polycrystalline ZnO under different annealing conditions. <b>2003</b> , 94, 5787-5790		83
1737	Layer-by-layer growth of high-optical-quality ZnO film on atomically smooth and lattice relaxed ZnO buffer layer. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2784-2786	3-4	66
1736	Growth condition dependence of morphology and electric properties of ZnO films on sapphire substrates prepared by molecular beam epitaxy. <b>2003</b> , 93, 1961-1965		89
1735	Optical properties and electrical characterization of p-type ZnO thin films prepared by thermally oxidizing Zn3N2 thin films. <b>2003</b> , 18, 8-13		89
1734	Dry etching of ZnO films and plasma-induced damage to optical properties. <b>2003</b> , 21, 800		55
1733	Ferromagnetism in Mn- and Co-implanted ZnO nanorods. <b>2003</b> , 21, 1476		100
1732	Single nanowire lasers and waveguides. <b>2003</b> , 5223, 187		6
1731	Near Band-Edge and Mid-Gap Photoluminescence of a ZnO Thin Film Grown on a (001) silicon Substrate. <b>2003</b> , 20, 1571-1573		5
1730	Growth Conditions and Luminescence of ZnO Crystals Grown by Electric Current Heating with Thermite Reaction. <i>Key Engineering Materials</i> , <b>2003</b> , 248, 95-98	0-4	2

1729	Luminescence and Stimulated Emission in Zinc Oxide Nanoparticles, Films, and Crystals. <b>2003</b> , 158, 83-88	8
1728	Ferromagnetism in Mn- and Co-implanted ZnO nanorods.	
1727	Comparative Study of Properties of ZnO/GaN/Al <sub>2</sub> O <sub>3</sub> and ZnO/Al <sub>2</sub> O <sub>3</sub> Films Grown by Low-Pressure Metal Organic Chemical Vapour Deposition. <b>2003</b> , 20, 2045-2048	
1726	Room-Temperature Dual Excitonic Emission from Amorphous ZnO. <b>2003</b> , 20, 696-699	7
1725	Aqueous purpose-built nanostructured metal oxide thin films. <b>2003</b> , 18, 330	7
1724	Ultraviolet-emitting ZnO Microtube Array Synthesized by a Catalyst-assisted Flux Method. <b>2003</b> , 32, 1062-1063	22
1723	Growth and Characterization of ZnO Nanowires. <b>2003</b> , 776, 791	1
1722	The Refractive Index and Other Properties of Doped ZnO films. <b>2003</b> , 764, 1	2
1721	Modulation of Energy Band Gap of ZnO Thin Films Grown by Pulsed Laser Deposition. <b>2003</b> , 764, 1	
1720	Photoluminescence of ZnO layers grown on opals by chemical deposition from zinc nitrate solution. <b>2004</b> , 19, 851-854	15
1719	In situ monitoring of Zn* and Mg* species during helicon-wave-excited-plasma sputtering epitaxy of ZnO and Mg <sub>0.06</sub> Zn <sub>0.94</sub> O films. <b>2004</b> , 22, 2220	9
1718	A Thermally Activated Exciton-Exciton Collision Process in ZnO Microrods. <b>2004</b> , 21, 1640-1643	1
1717	Investigation of laser-ablated ZnO thin films grown with Zn metal target: A structural study. <b>2004</b> , 96, 3228-3233	40
1716	Sensitivity of Pt/ZnO Schottky diode characteristics to hydrogen. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1698-1700	38
1715	Polarity control of ZnO on sapphire by varying the MgO buffer layer thickness. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4562-4564	3-4 119
1714	Field emission and photofluorescent characteristics of zinc oxide nanowires synthesized by a metal catalyzed vapor-liquid-solid process. <b>2004</b> , 95, 3711-3716	166
1713	Effects of chemical composition on the optical properties of Zn <sub>1-x</sub> Cd <sub>x</sub> O thin films. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 218-220	3-4 49
1712	Microcavity lasing behavior of oriented hexagonal ZnO nanowhiskers grown by hydrothermal oxidation. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2739-2741	3-4 121

1711	Photoluminescence and resonant Raman scattering in highly conductive ZnO layers. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5168-5170	3-4	27
1710	Microstructure and crystal defects in epitaxial ZnO film grown on Ga modified (0001) sapphire surface. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4385	3-4	31
1709	High-quality, melt-grown ZnO single crystals. <b>2004</b> , 95, 4802-4805		64
1708	ZnMgO epilayers and ZnO $\lambda$ nMgO quantum wells for optoelectronic applications in the blue and UV spectral region. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5359-5361	3-4	232
1707	Room-temperature ferromagnetism in well-aligned Zn $\lambda$ CoxO nanorods. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1027-1029	3-4	137
1706	Characteristics of dislocations in ZnO layers grown by plasma-assisted molecular beam epitaxy under different Zn $\lambda$ flux ratios. <b>2004</b> , 96, 3763-3768		64
1705	Electrical transport in ZnO $\lambda$ films: Transition from band-gap insulator to Anderson localized insulator. <b>2004</b> , 96, 3827-3830		24
1704	Third-order optical nonlinearity originating from room-temperature exciton in layered compounds LaCuOS and LaCuOSe. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 879-881	3-4	52
1703	Electronic structure of ZnO nanorods studied by angle-dependent x-ray absorption spectroscopy and scanning photoelectron microscopy. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3462-3464	3-4	90
1702	Carrier concentration dependence of Ti/Al/Pt/Au contact resistance on n-type ZnO. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 544-546	3-4	67
1701	Role of hydrogen in molecular beam epitaxy of ZnO. <b>2004</b> , 95, 5527-5531		35
1700	New method of producing well-aligned ZnO nanorods on a Si-SiO $\lambda$ 2 substrate. <b>2004</b> , 19, 2226-2229		23
1699	Growth of mirror-like Zn $\lambda$ -xMnxO diluted magnetic semiconductor thin films by r.f. magnetron sputtering method. <b>2004</b> , 825, G5.1.1		
1698	Characteristics of Thin-Film p-ZnMgO/n-ITO Heterojunctions on Glass Substrates. <b>2004</b> , 7, G145		3
1697	Luminescence in ZnO Quantum Particles. <b>2004</b> , 19, 737-740		20
1696	Convertibility of conduction type in Al-N codoped ZnO thin films based on DC reactive magnetron sputtering.		
1695	ZnO nanostructures on Si and SiO $\lambda$ 2 surfaces by diblock copolymer self-assembly. <b>2004</b> ,		
1694	Repeated temperature modulation epitaxy for p-type doping and light-emitting diode based on ZnO. <b>2004</b> , 4, 42-46		1830

1693	Comparative study of Mg doped ZnO and multilayer ZnO/MgO thin films. <b>2004</b> , 447-448, 564-567		48
1692	Controlled synthesis of ZnO nanocrystals with column-, rosette-and fiber-like morphologies and their photoluminescence property. <i>Materials Chemistry and Physics</i> , <b>2004</b> , 88, 150-154	4-4	10
1691	Sonochemical and microwave-assisted synthesis of linked single-crystalline ZnO rods. <i>Materials Chemistry and Physics</i> , <b>2004</b> , 88, 421-426	4-4	229
1690	Multiphonon resonant Raman scattering in ZnO crystals and nanostructured layers. <b>2004</b> , 70,		105
1689	Role of gallium wetting layer in high-quality ZnO growth on sapphire (0001) substrates. <b>2004</b> , 47, 612		1
1688	Hydrothermal Synthesis and Spectroscopic Properties of Crystalline ZnO Powders and Films. <b>2004</b> , 40, 1173-1180		7
1687	Raman scattering and photoluminescence of As ion-implanted ZnO single crystal. <b>2004</b> , 96, 175-179		113
1686	Synthesis and photoluminescence studies on ZnO nanowires. <b>2004</b> , 15, 404-409		96
1685	The photoluminescence properties of ZnO whiskers. <b>2004</b> , 263, 316-319		22
1684	Morphology of ZnO grown by MOCVD on sapphire substrates. <b>2004</b> , 264, 70-78		37
1683	Homoepitaxial growth of (0 0 0 1)- and (0001 )-oriented ZnO thin films via metalorganic vapor-phase epitaxy and their characterization. <b>2004</b> , 265, 390-398		32
1682	Influence of ambient gases on the morphology and photoluminescence of ZnO nanostructures synthesized with nickel oxide catalyst. <b>2004</b> , 270, 491-497		20
1681	Blue luminescent center in ZnO films deposited on silicon substrates. <i>Optical Materials</i> , <b>2004</b> , 26, 239-243	3-3	190
1680	Structure and optical properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O nanoparticles prepared by sol-gel method. <i>Optical Materials</i> , <b>2004</b> , 27, 1-5	3-3	57
1679	Preparation, characterization and optical properties of nanostructured ZnO thin films. <i>Optical Materials</i> , <b>2004</b> , 27, 217-220	3-3	28
1678	Comparisons of structural and optical properties of ZnO films grown on (0001) sapphire and (01. <i>Optical Materials</i> , <b>2004</b> , 27, 399-402	3-3	25
1677	Exciton polariton spectra and carrier effective masses in ZnO single crystals. <b>2004</b> , 353, 111-115		27
1676	Nanotubular structures of zinc oxide. <b>2004</b> , 129, 671-675		81

1675	Effect of Strain Gradation on Luminescence and Electronic Properties of Pulsed Laser Deposited Zinc Oxide Thin Films. <b>2004</b> , 13, 345-352	22
1674	Low-temperature growth of ZnO epitaxial films by metal organic chemical vapor deposition. <b>2004</b> , 78, 25-28	7
1673	Growth mechanism of ZnO nanorods from nanoparticles formed in a laser ablation plume. <b>2004</b> , 78, 299-301	125
1672	Controlling the size and alignment of ZnO microrods using ZnO thin film templates deposited by pulsed laser ablation. <b>2004</b> , 79, 1169-1173	58
1671	Growth and optical properties of quadrangular zinc oxide nanorods on copper-filled porous silicon. <b>2004</b> , 79, 443-446	20
1670	ZnO nano-rods synthesized by nano-particle-assisted pulsed-laser deposition. <b>2004</b> , 79, 1417-1419	74
1669	Third-harmonic generation from ZnO films deposited by MOCVD. <b>2004</b> , 79, 83-86	28
1668	Low-energy ion beam treatment of $\text{Al}_2\text{O}_3(0001)$ and improvement of photoluminescence of ZnO thin films. <b>2004</b> , 10, 351-355	5
1667	Li diffusion in epitaxial $(11\bar{2}0)$ ZnO thin films. <b>2004</b> , 33, 596-599	9
1666	Growth and characterization of ZnO thin films on GaN epilayers. <b>2004</b> , 33, 826-832	7
1665	Transparent oxide optoelectronics. <b>2004</b> , 7, 42-51	265
1664	Structure-direct assembly of hexagonal pencil-like ZnO group whiskers. <b>2004</b> , 177, 176-180	24
1663	Comparison of linear and nonlinear optical spectra of various ZnO epitaxial layers and of bulk material obtained by different experimental techniques. <b>2004</b> , 241, 587-590	23
1662	High-quality ZnO epilayers grown on Zn-polar ZnO substrates by plasma-assisted molecular beam epitaxy. <b>2004</b> , 241, 612-615	10
1661	Rotation-domains suppression and polarity control of ZnO epilayers grown on skillfully treated c- $\text{Al}_2\text{O}_3$ surfaces. <b>2004</b> , 241, 620-623	6
1660	MBE growth of Zn-polar ZnO on MOCVD-ZnO templates. <b>2004</b> , 241, 2825-2829	5
1659	Quantitative analyses of impurities in ZnO. <b>2004</b> , 36, 645-648	14
1658	Electrical characterisation of zinc oxide thin films by electrochemical capacitance-voltage profiling. <b>2004</b> , 1, 860-863	2

1657	Relaxation and diffusion of photoexcited carriers in ZnO epitaxial thin films. <b>2004</b> , 1, 678-681	7
1656	Multidimensional ZnO nanodot arrays by self-ordering on functionalised substrates. <b>2004</b> , 1, 896-899	1
1655	Conversion of an electron-hole plasma into a high density excitonic state in ZnO epitaxial thin films. <b>2004</b> , 1, 839-842	10
1654	Properties of ZnO films prepared by MO-CVD under oxygen rich condition on sapphire substrate. <b>2004</b> , 1, 912-915	4
1653	Optical second harmonic imaging of zinc oxide thin films grown by metal organic chemical vapour deposition (MOCVD). <b>2004</b> , 1, 2243-2249	3
1652	Substrate effects on the heteroepitaxial growth of ZnO thin films by pulsed laser deposition. <b>2004</b> , 1, 2541-2544	8
1651	Effect of polycrystallinity on the optical properties of highly oriented ZnO grown by pulsed laser deposition. <b>2004</b> , 458, 330-335	19
1650	Comparative study of self-assembled ZnO nanostructures in poly(styrene- <i>b</i> -acrylic acid) diblock copolymers[PS] <i>m</i> /[PAA] <i>n</i> on Si and SiO <sub>2</sub> /Si surfaces. <b>2004</b> , 469-470, 425-430	8
1649	Oxidation of a ZnS nanobelt into a ZnO nanotwin belt or double single-crystalline ZnO nanobelts. <b>2004</b> , 129, 233-238	37
1648	Structural and electrical properties of nitrogen and aluminum codoped p-type ZnO films. <b>2004</b> , 132, 75-78	35
1647	Hydrothermal synthesis of fine zinc oxide particles under supercritical conditions. <b>2004</b> , 172, 261-264	72
1646	Electronic structure and magnetic moments of 3d transition metal-doped ZnO. <b>2004</b> , 282, 275-278	106
1645	Fabrication and characterisation of NiO/ZnO structures. <b>2004</b> , 100, 270-276	52
1644	Effects of ZnO buffer layer thickness on properties of ZnO thin films deposited by low-pressure MOCVD. <b>2004</b> , 262, 456-460	44
1643	Metalorganic chemical vapor deposition and characterizations of epitaxial Mg <sub>x</sub> Zn <sub>1-x</sub> O (0 ≤ x ≤ 0.33) films on r-sapphire substrates. <b>2004</b> , 261, 316-323	18
1642	Preparation of well-aligned ZnO whiskers on glass substrate by atmospheric MOCVD. <b>2004</b> , 263, 119-124	88
1641	Size control of ZnO nanoparticles via thermal decomposition of zinc acetate coated on organic additives. <b>2004</b> , 263, 447-453	170
1640	High-electron-mobility ZnO epilayers grown by plasma-assisted molecular beam epitaxy. <b>2004</b> , 265, 34-40	71



1639	High-quality ZnO epilayers grown on Zn-face ZnO substrates by plasma-assisted molecular beam epitaxy. <b>2004</b> , 265, 375-381	86
1638	Improvement of the crystalline quality of the ZnO epitaxial layer on a low-temperature grown ZnO buffer layer. <b>2004</b> , 266, 505-510	48
1637	The effect of ZnO homo-buffer layer on ZnO thin films grown on c-Al <sub>2</sub> O <sub>3</sub> (0001) by plasma assisted molecular beam epitaxy. <b>2004</b> , 267, 85-91	21
1636	Growth and properties of well-aligned ZnO hexagonal cones prepared by carbonthermal reaction. <b>2004</b> , 267, 223-230	19
1635	Molecular beam epitaxy of high-quality ZnO using hydrogen peroxide as an oxidant. <b>2004</b> , 269, 356-361	47
1634	Electrical and optical properties of Al <sub>x</sub> co-doped p-type zinc oxide films. <b>2004</b> , 268, 163-168	26
1633	Structural analysis of CdO layers grown on r-plane sapphire (011 $\bar{2}$ ) by metalorganic vapor-phase epitaxy. <b>2004</b> , 271, 223-228	35
1632	Modeling of grain boundary barrier modulation in ZnO invisible thin film transistors. <b>2004</b> , 21, 911-915	59
1631	Mechanisms of green emission from ZnO films prepared by rf magnetron sputtering. <i>Optical Materials</i> , <b>2004</b> , 26, 23-26	3.3 60
1630	ZnO thin films produced by filtered cathodic vacuum arc technique. <b>2004</b> , 30, 1669-1674	18
1629	Valence band structure of the ZnO(1 0 1 $\bar{1}$ 0) surface studied by angle-resolved photoemission spectroscopy. <b>2004</b> , 237, 343-347	8
1628	Indium-doped zinc oxide nanobelts. <b>2004</b> , 387, 466-470	190
1627	Nano-particulate CuI film formed on porous copper substrate by iodination. <b>2004</b> , 387, 400-404	11
1626	Strong room-temperature UV emission of nanocrystalline ZnO films derived from a polymeric solution. <b>2004</b> , 391, 278-282	23
1625	Growth of aligned ZnO nanorod arrays by catalyst-free pulsed laser deposition methods. <b>2004</b> , 396, 21-26	377
1624	A control on the photoluminescence properties in P-passivated nanocrystalline ZnO films. <b>2004</b> , 397, 360-363	4
1623	Characterization of N-doped ZnO layers grown on (0001) GaN/Al <sub>2</sub> O <sub>3</sub> substrates by molecular beam epitaxy. <b>2004</b> , 4, 625-629	10
1622	Luminescence from ZnO/MgO nanoparticle structures prepared by solution techniques. <b>2004</b> , 4, 647-650	25

1621	Highly oriented growth of n-type ZnO films on p-type single crystalline diamond films and fabrication of high-quality transparent ZnO/diamond heterojunction. <b>2004</b> , 42, 317-321		31
1620	Enhancement of exciton emission from ZnO nanocrystalline films by pulsed laser annealing. <b>2004</b> , 226, 242-248		43
1619	Characterisation of ZnO Thin Films Grown Directly on Sapphire by PAMBE.		
1618	The visible luminescent characteristics of ZnO supported on SiO <sub>2</sub> powder. <b>2004</b> , 6, 4473-4479		31
1617	Hydrogen-doped high conductivity ZnO films deposited by radio-frequency magnetron sputtering. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5628-5630	3-4	148
1616	Effect of annealing on ZnO thin films grown on (001) silicon substrate by low-pressure metalorganic chemical vapour deposition. <b>2004</b> , 19, 755-758		54
1615	Zinc oxide thin-film random lasers on silicon substrate. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3244-3246	3-4	121
1614	Electrical characterization of zinc oxide thin films by electrochemical capacitance-voltage profiling. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3043-3045	3-4	8
1613	Specific contact resistance of Ti/Al/Pt/Au ohmic contacts to phosphorus-doped ZnO thin films. <b>2004</b> , 22, 171		12
1612	ZnO Well-Faceted Fibers with Periodic Junctions. <b>2004</b> , 108, 19901-19903		40
1611	Laser emission of low-threshold excitation from ZnO nanowires. <b>2004</b> , 68, 740-745		23
1610	Impurity band characteristics near the band edge of Al-doped ZnO. <b>2004</b> , 96, 1507-1510		34
1609	Diameter dependence of the electronic structure of ZnO nanorods determined by x-ray absorption spectroscopy and scanning photoelectron microscopy. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3220-3222	3-4	86
1608	Hydrothermal route to ZnO nanocoral reefs and nanofibers. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 287-289	3-4	83
1607	Effect of Sn dopant on the properties of ZnO nanowires. <b>2004</b> , 37, 2274-2282		88
1606	Annealing effect on the property of ultraviolet and green emissions of ZnO thin films. <b>2004</b> , 95, 1246-1250		502
1605	Ultraviolet detection with ultrathin ZnO epitaxial films treated with oxygen plasma. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 173-175	3-4	170
1604	Atomic structure of [0001]-tilt grain boundaries in ZnO: A high-resolution TEM study of fiber-textured thin films. <b>2004</b> , 70,		56

1603	Vertical nanowire light-emitting diode. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 6004-6006	3-4	397
1602	Study of the structural evolution in ZnO thin film by in situ synchrotron x-ray scattering. <b>2004</b> , 96, 1740-1742		37
1601	Doping by large-size-mismatched impurities: the microscopic origin of arsenic- or antimony-doped p-type zinc oxide. <b>2004</b> , 92, 155504		549
1600	Temperature-dependent photoluminescence of ZnO layers grown on 6H-SiC substrates. <b>2004</b> , 95, 7738-7741		34
1599	Influences of biaxial strains on the vibrational and exciton energies in ZnO. <b>2004</b> , 96, 289-293		74
1598	Low-temperature orientation-selective growth and ultraviolet emission of single-crystal ZnO nanowires. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3358-3360	3-4	101
1597	ZnO metal-organic vapor phase epitaxy: present state and prospective applications. <b>2004</b> , 371, 77-81		19
1596	p-Type conduction in Al <sub>N</sub> co-doped ZnO films. <b>2004</b> , 58, 3741-3744		28
1595	Possible p-type doping with group-I elements in ZnO. <b>2004</b> , 70,		201
1594	Understanding the factors that govern the deposition and morphology of thin films of ZnO from aqueous solution. <b>2004</b> , 14, 2575-2591		654
1593	On the design of advanced metal oxide nanomaterials. <b>2004</b> , 1, 1		155
1592	Growth and characteristics of ZnO thin film on CaF <sub>2</sub> (11 $\bar{2}$ 1) substrate by metalorganic vapor phase epitaxy. <b>2005</b> , 243, 24-29		8
1591	HRTEM observation of interface states between ZnO epitaxial film and Si(111) substrate. <b>2005</b> , 244, 359-364		7
1590	Production of gas phase zinc oxide nanoclusters by pulsed laser ablation. <b>2005</b> , 247, 1-7		26
1589	Morphology development and oriented growth of single crystalline ZnO nanorod. <b>2005</b> , 252, 1436-1441		13
1588	Fabrication and photoluminescence studies of ZnO nanocrystals dispersed in glass films. <b>2005</b> , 112, 169-172		9
1587	Temperature-dependent luminescence dynamics in ZnO nanorods. <b>2005</b> , 112, 173-176		43
1586	Structural and photoluminescence characters of SnO <sub>2</sub> :Sb films deposited by RF magnetron sputtering. <b>2005</b> , 114, 71-76		62

1585	Solid and soft nanostructured materials: Fundamentals and applications. <b>2005</b> , 36, 940-949	34
1584	Structure, X-ray photoelectron spectroscopy and photoluminescence properties of highly ordered ZnO microrods. <i>Optical Materials</i> , <b>2005</b> , 27, 1602-1605	33 45
1583	Room temperature chemical vapor deposition of c-axis ZnO. <b>2005</b> , 274, 412-417	95
1582	Two-dimensional growth of ZnO epitaxial films on c-Al <sub>2</sub> O <sub>3</sub> (0001) substrates with optimized growth temperature and low-temperature buffer layer by plasma-assisted molecular beam epitaxy. <b>2005</b> , 274, 418-424	32
1581	Influence of Ar/O <sub>2</sub> gas ratios on the crystal quality and band gap of Zn <sub>1-x</sub> Cd <sub>x</sub> O thin films. <b>2005</b> , 274, 458-463	10
1580	Polarity control of ZnO on c-plane sapphire by plasma-assisted MBE. <b>2005</b> , 275, e2459-e2465	13
1579	Structural, optical and electrical properties of ZnO films grown by pulsed laser deposition (PLD). <b>2005</b> , 276, 507-512	138
1578	Growth of zinc oxide by chemical vapor transport. <b>2005</b> , 276, 389-392	38
1577	Fabrication and characterization of high quality undoped and Ga <sub>2</sub> O <sub>3</sub> -doped ZnO thin films by reactive electron beam co-evaporation technique. <b>2005</b> , 275, 512-520	53
1576	Crystallinity-damage recovery and optical property of As-implanted ZnO crystals by post-implantation annealing. <b>2005</b> , 275, 541-547	22
1575	Characterization of ZnO/Mg <sub>0.12</sub> Zn <sub>0.88</sub> O heterostructure grown by plasma-assisted molecular beam epitaxy. <b>2005</b> , 278, 299-304	27
1574	Investigation of growth mode in ZnO thin films prepared at different temperature by plasma-molecular beam epitaxy. <b>2005</b> , 278, 305-310	17
1573	MOCVD growth and properties of ZnO thin films on LiNbO <sub>3</sub> substrates. <b>2005</b> , 277, 378-381	8
1572	The deposition and annealing study of MOCVD ZnMgO. <b>2005</b> , 277, 416-421	33
1571	Effect of thermal annealing on the structural and the optical properties of ZnO/MgO nanostructures. <b>2005</b> , 279, 494-500	17
1570	Growth and properties of ZnO nanotubes grown on Si(111) substrate by plasma-assisted molecular beam epitaxy. <b>2005</b> , 280, 206-211	22
1569	Epitaxial growth of ZnO thin films on Si substrates by PLD technique. <b>2005</b> , 280, 455-461	39
1568	Growth of nitrogen-doped p-type ZnO films by spray pyrolysis and their electrical and optical properties. <b>2005</b> , 280, 495-501	47

1567	Photoluminescence of ZnO films grown by plasma-assisted molecular beam epitaxy. <b>2005</b> , 282, 112-116	24
1566	Catalyst-free large-quantity synthesis of ZnO nanorods by a vapor-solid growth mechanism: Structural and optical properties. <b>2005</b> , 282, 131-136	171
1565	High-quality ZnO films grown by atmospheric pressure metal-organic chemical vapor deposition. <b>2005</b> , 283, 87-92	22
1564	Effects of post-annealing temperature on structural, optical, and electrical properties of ZnO and Zn <sub>1-x</sub> Mg <sub>x</sub> O films by reactive RF magnetron sputtering. <b>2005</b> , 283, 170-179	49
1563	RETRACTED: Nucleation and growth behavior of well-aligned ZnO nanorods on organic substrates in aqueous solutions. <b>2005</b> , 283, 141-146	33
1562	Glancing-incidence X-ray analysis of ZnO thin films and ZnO/ZnMgO heterostructures grown by laser-MBE. <b>2005</b> , 284, 123-128	12
1561	Radial spherical ZnO structures with nanorods grown on both sides of a hollow sphere-like core. <b>2005</b> , 284, 142-148	10
1560	Optical characterization of ZnO whiskers grown without catalyst by hot wall epitaxy method. <b>2005</b> , 284, 166-171	15
1559	ZnO:Zn phosphor thin films prepared by face-to-face annealing. <b>2005</b> , 284, 347-352	10
1558	Annealing effect on properties of ZnO thin films grown on LiNbO <sub>3</sub> substrates by MOCVD. <b>2005</b> , 284, 319-323	17
1557	Effect of annealing atmosphere on physical characteristics and photoluminescence properties of nitrogen-implanted ZnO thin films. <b>2005</b> , 285, 96-102	9
1556	Fabrication of ZnO nanocrystals dispersed in glass films for low-temperature optical studies. <b>2005</b> , 26, 96-99	10
1555	Preparation of ZnO Nanorods and optical characterizations. <b>2005</b> , 28, 76-82	91
1554	Microstructure and polarity of epitaxial ZnO films grown on LSAT(111) substrate studied by transmission electron microscopy. <b>2005</b> , 339, 497-502	8
1553	Structural and optical properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films deposited by magnetron sputtering. <b>2005</b> , 364, 157-161	21
1552	Growth of ZnO/Zn <sub>1-x</sub> Mg <sub>x</sub> O films by pulsed laser ablation. <b>2005</b> , 486, 174-177	20
1551	Growth of epitaxial ZnO thin films on lattice-matched buffer layer: Application of InGaO <sub>3</sub> (ZnO) <sub>6</sub> single-crystalline thin film. <b>2005</b> , 486, 28-32	13
1550	Influences of CO <sub>2</sub> laser irradiation on the structure and photoluminescence of zinc oxide thin films. <b>2005</b> , 485, 262-266	9

1549	Effect of high-temperature annealing on the structural and optical properties of ZnO films. <b>2005</b> , 491, 323-327	38
1548	AlN codoping and p-type conductivity in ZnO using different nitrogen sources. <b>2005</b> , 198, 354-356	13
1547	Zinc oxide films by thermal oxidation of zinc thin films. <b>2005</b> , 198, 319-323	65
1546	Feasibility study of RF sputtered ZnO film for surface micromachining. <b>2005</b> , 198, 304-308	13
1545	Synthesis and optoelectronic properties of arrayed p-type ZnO nanorods grown on ZnO film/Si wafer in aqueous solutions. <b>2005</b> , 404, 30-34	65
1544	Bandgap engineering of well-aligned Zn <sub>1-x</sub> Mg <sub>x</sub> O nanorods grown by metalorganic chemical vapor deposition. <b>2005</b> , 404, 132-135	37
1543	Photoluminescence and micro-Raman scattering in ZnO nanoparticles: The influence of acetate adsorption. <b>2005</b> , 411, 150-154	88
1542	Effect of thermal annealing on the optical and electronic properties of ZnO thin films grown on p-Si substrates. <b>2005</b> , 245, 384-390	34
1541	Characteristics and luminescence of Ge doped ZnO films prepared by alternate radio frequency magnetron sputtering. <b>2005</b> , 245, 414-419	65
1540	Random lasing from surface modified films of zinc oxide nanoparticles. <b>2005</b> , 247, 18-24	23
1539	Morphology of the Si <sub>3</sub> N <sub>4</sub> /ZnO interface. <b>2005</b> , 252, 1139-1146	44
1538	Epitaxial growth of ZnO nanowires on a- and c-plane sapphire. <b>2005</b> , 274, 407-411	83
1537	Growth of a-plane ZnO Thin Films on r-plane Sapphire by Plasma-assisted MBE. <b>2005</b> , 891, 1	1
1536	Raman scattering and efficient UV photoluminescence from well-aligned ZnO nanowires epitaxially grown on GaN buffer layer. <b>2005</b> , 109, 8749-54	98
1535	Controlling the morphology of ZnO nanostructures in a low-temperature hydrothermal process. <b>2005</b> , 109, 15317-21	253
1534	A comprehensive review of ZnO materials and devices. <b>2005</b> , 98, 041301	8776
1533	Synthesis of nanowires, nanorods and nanoparticles of ZnO through modulating the ratio of water to methanol by using a mild and simple solution method. <i>Materials Chemistry and Physics</i> , <b>2005</b> , 89, 326-331	44 66
1532	Fabrication and characteristics of ZnO thin films with an Al/Si (1 0 0) substrates. <i>Materials Chemistry and Physics</i> , <b>2005</b> , 93, 170-173	4.4 16

1531	Rapid preparation, characterization, and photoluminescence of ZnO films by a novel chemical method. <b>2005</b> , 40, 1104-1111	49
1530	Effect of thermal annealing treatment on structural, electrical and optical properties of transparent sol-gel ZnO thin films. <b>2005</b> , 40, 1905-1914	90
1529	UV-Violet photoluminescence emitted from SnO <sub>2</sub> :Sb thin films at different temperature. <b>2005</b> , 59, 2142-2145	41
1528	Enhanced green photoluminescence from ZnO films prepared by TFA-MOD method. <b>2005</b> , 59, 3042-3045	7
1527	A low-temperature synthesis of multiwhisker-based zinc oxide micron crystals. <b>2005</b> , 59, 3710-3714	45
1526	Synthesis of Aligned Arrays of Ultrathin ZnO Nanotubes on a Si Wafer Coated with a Thin ZnO Film. <b>2005</b> , 17, 2477-2481	313
1525	Low-temperature synthesis and room temperature ultraviolet lasing of nanocrystalline ZnO films. <b>2005</b> , 80, 1049-1051	10
1524	Surface-relief micropatterning of zinc oxide substrates by micromolding pulsed-laser-deposited films. <b>2005</b> , 81, 1113-1116	6
1523	Ultraviolet lasing and field emission characteristics of ZnO nano-rods synthesized by nano-particle-assisted pulsed-laser ablation deposition. <b>2005</b> , 81, 907-910	42
1522	Hydrothermal growth of well-aligned ZnO nanorod arrays: Dependence of morphology and alignment ordering upon preparing conditions. <b>2005</b> , 178, 1864-1873	391
1521	The effect of surface properties on visible luminescence of nanosized colloidal ZnO membranes. <b>2005</b> , 282, 403-7	22
1520	Effect of annealing temperature on properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films deposited by RF magnetron sputtering. <b>2005</b> , 357, 428-432	3
1519	Indium doped zinc oxide thin films obtained by electrodeposition. <b>2005</b> , 490, 124-131	99
1518	Al ohmic contacts to HCl-treated Mg <sub>x</sub> Zn <sub>1-x</sub> O. <b>2005</b> , 34, 754-757	1
1517	Some silicon-based heterostructures for optical applications. <b>2005</b> , 34, 515-521	2
1516	High-energy vibrational modes in nitrogen-doped ZnO. <b>2005</b> , 242, R21-R23	18
1515	Effect of Hydrogen Doping on Structural and Piezoelectric Properties of Sputtered ZnO Films. <b>2005</b> , 69, 431-442	3
1514	Synthesis and Characterization of Sol-Gel Derived Cu Doped ZnO Films. <b>2005</b> , 64, 133-136	

1513	Preparation and optical properties of ZnO films by cathodic electrodeposition. <b>2005</b> , 5632, 226		
1512	Synthesis of shuttle-like ZnO nanostructures from precursor ZnS nanoparticles. <b>2005</b> , 16, 1469-1473		38
1511	Selective growth of Zn- and O-polar ZnO layers by plasma-assisted molecular beam epitaxy. <b>2005</b> , 23, 1286		22
1510	Polarization-dependent soft-x-ray absorption of a highly oriented ZnO microrod-array. <b>2005</b> , 17, 235-40		7
1509	Synthesis of ZnO Nanorods by Laser Ablation of ZnO and Zn Targets in He and O <sub>2</sub> Background Gas. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 688-691	1.4	32
1508	Effects of RF Power and Substrate Temperature during RF Magnetron Sputtering on Crystal Quality of ZnO Thin Films. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 8501-8503	1.4	8
1507	Structure Properties of Mg x Zn 1k O Films Deposited at Low Temperature. <b>2005</b> , 22, 995-997		8
1506	Synthesis and Field Emission of ZnO Nanostructures on CuO Catalyzed Porous Silicon Substrate. <b>2005</b> , 22, 2411-2414		3
1505	Nanostructures and optical characteristics of ZnO thin-film-like samples grown on GaN. <b>2005</b> , 16, 3084-3091		3
1504	The substrate effect on the in-plane orientation of vertically well-aligned ZnO nanorods grown on ZnO buffer layers. <b>2005</b> , 16, 2882-2886		32
1503	Photoluminescence Mechanism of ZnO:Zn Investigated by Microwave Dielectric Spectrometry. <b>2005</b> , 22, 2092-2095		
1502	Preparation and characterization of ZnO particles embedded in SiO <sub>2</sub> matrix by reactive magnetron sputtering. <b>2005</b> , 97, 103509		59
1501	Metal-adlayer-stabilized ZnO(0001) surfaces: Toward a new growth mode for oxides. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 141914	3.4	17
1500	Growth of heteroepitaxial ZnO thin film and ZnO(Mg,Zn)O nanomultilayer by off-axis rf magnetron sputtering. <b>2005</b> , 23, 1-4		4
1499	Control of conduction type in Al- and N-codoped ZnO thin films. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 202106.4	3.4	81
1498	Growth of ZnO thin films by ultraviolet pulsed-laser ablation: Study of plume dynamics. <b>2005</b> , 98, 123301		33
1497	Enhanced luminescent and electrical properties of hydrogen-plasma ZnO nanorods grown on wafer-scale flexible substrates. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 183103	3.4	125
1496	Synthesis of ZnO nanocrystals by subsequent implantation of Zn and O species. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 183111	3.4	38



1495	Near-field scanning optical microscopy of ZnO nanopatterns fabricated by micromolding in capillaries. <b>2005</b> , 98, 024304		22
1494	Interaction of atomic hydrogen with Zn-polar and O-polar ZnO surfaces. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 091901	3-4	35
1493	Macroscopic energy transport in ZnO monitored by spatiotemporally resolved luminescence. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 111909	3-4	23
1492	Realization of Mg(x=0.15)Zn(1-x=0.85)O-based metal-semiconductor-metal UV detector on quartz and sapphire. <b>2005</b> , 23, 982-985		45
1491	p-type behavior in In <sub>N</sub> codoped ZnO thin films. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 252106	3-4	103
1490	Two-photon resonance assisted huge nonlinear refraction and absorption in ZnO thin films. <b>2005</b> , 97, 033526		79
1489	Microvoid formation in hydrogen-implanted ZnO probed by a slow positron beam. <b>2005</b> , 71,		85
1488	THERMAL EVAPORATION SYNTHESIS OF ZnO MICROSHELLS. <b>2005</b> , 19, 2722-2727		1
1487	Electroluminescence of an n-ZnO/p-GaN Heterojunction under Forward and Reverse Biases. <b>2005</b> , 22, 2298-2301		17
1486	Blue Light-Emitting Diode Based on ZnO. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, L643-L645	1-4	380
1485	ZnO Light-Emission Array Fabricated into Nanometer-scale Pits on Silicon Substrate. <b>2005</b> , 891, 1		
1484	Formation and Effect of Thermal Annealing for Low-Resistance Ni/Au Ohmic Contact to Phosphorous-Doped p-Type ZnO. <b>2005</b> , 152, G179		33
1483	Inorganic Nanowire Light-Emitting Diodes in Organic Films. <b>2005</b> , 871, 1		
1482	Effect of Ag Doping on Optical and Electrical Properties of ZnO Thin Films. <b>2005</b> , 22, 2031-2034		20
1481	Growth of Ga-doped ZnO nanowires by two-step vapor phase method. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 133107	3-4	54
1480	Pressure-dependent photoluminescence study of ZnO nanowires. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 153137	3-4	80
1479	Observation of two-photon-induced photoluminescence in ZnO microtubes. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 051920	3-4	37
1478	Rapid Synthesis of Zinc Oxide and Lead Oxide Nanorods by One-Step Solid-State Reaction Methods at Ambient Conditions. <b>2005</b> , 475-479, 3579-3582		4

1477	Laser-ablated ZnO for thin films of ZnO and Mg <sub>x</sub> Zn(1-x)O. <b>2005</b> , 98, 034908		19
1476	Preparation and properties of ternary ZnMgO nanowires. <b>2005</b> , 109, 23930-4		45
1475	Precursor-induced hydrothermal synthesis of flowerlike cupped-end microrod bundles of ZnO. <b>2005</b> , 109, 1361-3		81
1474	ZnO nanobelt arrays grown directly from and on zinc substrates: synthesis, characterization, and applications. <b>2005</b> , 109, 15303-8		111
1473	Efficient multiphoton-absorption-induced luminescence in single-crystalline ZnO at room temperature. <b>2005</b> , 30, 3377-9		69
1472	Synthesis of ZnO nanostructures on CuO catalyzed porous silicon substrate. <b>2005</b> , 59, 3525-3529		8
1471	Morphological control of ZnO nanostructures by electrodeposition. <b>2005</b> , 109, 13519-22		338
1470	Structural variation of cubic and hexagonal Mg <sub>x</sub> Zn(1-x)O layers grown on MgO(111)-sapphire. <b>2005</b> , 98, 054911		98
1469	Pulsed laser deposition of thin films and superlattices based on ZnO. <b>2005</b> , 20, S1-S12		186
1468	Formation and luminescence of ZnO nanoparticles embedded in MgO films. <b>2005</b> , 71,		27
1467	Facile scheme for fabricating solid-state nanostructures using e-beam lithography and solution precursors. <b>2005</b> , 5, 1710-5		79
1466	Temperature-dependent photoluminescence of nanocrystalline ZnO thin films grown on Si (100) substrates by the sol-gel process. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 131910	3-4	86
1465	Influence of surface modification on the luminescence of colloidal ZnO nanocrystals. <b>2005</b> , 109, 20810-6		292
1464	Pressure-induced phase transition in ZnO and ZnO-MgO pseudobinary system: A first-principles lattice dynamics study. <b>2005</b> , 72,		91
1463	Semiconductor nanowires for subwavelength photonics integration. <b>2005</b> , 109, 15190-213		253
1462	Ultraviolet lasing and time-resolved photoluminescence of well-aligned ZnO nanorod arrays. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 223106	3-4	73
1461	Exciton-polariton spectra and limiting factors for the room-temperature photoluminescence efficiency in ZnO. <b>2005</b> , 20, S67-S77		61
1460	Production and recovery of defects in phosphorus-implanted ZnO. <b>2005</b> , 97, 013528		121

1459	Growth and properties of ZnO nanoblade and nanoflower prepared by ultrasonic pyrolysis. <b>2005</b> , 97, 044305		61
1458	Femtosecond pulse excited two-photon photoluminescence and second harmonic generation in ZnO nanowires. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 042117	3-4	65
1457	Synthesis and Structures of Morphology-Controlled ZnO Nano- and Microcrystals. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 1518-1522	3-5	189
1456	Formation, Characterization, and Properties of One-Dimensional Oxide Nanostructures. <b>2006</b> , 169-205		
1455	Optical and electronic properties of ZnO:P/n+-Si heterostructures fabricated by metalorganic chemical vapour deposition. <b>2006</b> , 21, 1090-1093		2
1454	Stimulated luminescence of ZnO nanocrystals of different shape grown by the method of gas transport. <b>2006</b> , 8, S148-S152		15
1453	Lowering of stimulated emission threshold of zinc oxide by doping with thermally diffused aluminum supplied from sapphire substrate. <b>2006</b> , 100, 023524		25
1452	Room-temperature photoluminescence of ZnO/MgO multiple quantum wells on Si (001) substrates. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 221914	3-4	19
1451	Electrical and optical properties of ZnO thin films grown on Si substrates. <b>2006</b> , 100, 013704		23
1450	Enhancement of ultraviolet emissions from ZnO films by Ag doping. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 232110	3-4	116
1449	Abnormal Photoluminescence Properties of Polycrystalline ZnO Nanowire Arrays Synthesized by Electrodeposition. <b>2006</b> , 23, 3105-3107		2
1448	Structural, morphological, and electrical characterization of heteroepitaxial ZnO thin films deposited on Si (100) by pulsed laser deposition: Effect of annealing (800°C) in air. <b>2006</b> , 99, 014907		17
1447	Observation of optical bistability in a ZnO powder random medium. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 071115	3-4	8
1446	Intrinsic exciton transitions in high-quality ZnO thin films grown by plasma-enhanced molecular-beam epitaxy on sapphire substrates. <b>2006</b> , 99, 063709		9
1445	Growth mechanisms of thin-film columnar structures in zinc oxide on p-type silicon substrates. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 091911	3-4	24
1444	The optical properties of Mg x Zn 1-x O thin films. <b>2006</b> , 15, 2385-2388		4
1443	Optical properties of Zn1-xMgxO nano-particles obtained by low temperature method.		
1442	Advances in Processing of ZnO. <b>2006</b> , 313-338		4

1441	Optical Properties of ZnO and Related Alloys. <b>2006</b> , 175-239		15
1440	Band gap engineering and stimulated emission of ZnMgO nanowires. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 013101	3-4	83
1439	Growth of n-type ZnO thin films by using mixture gas of hydrogen and argon. <b>2006</b> , 15, 199-202		12
1438	Defect properties and p-type doping efficiency in phosphorus-doped ZnO. <b>2006</b> , 73,		168
1437	Galvanic deposition of nanocrystalline ZnO thin films from a ZnO-Zn(OH)(2) mixed phase precursor on p-Si substrate. <b>2006</b> , 17, 2665-9		9
1436	Virtual structure in luminescence profile of zinc oxide films causing discrepancy in peak identification. <b>2006</b> , 100, 114917		5
1435	The Electronic Properties of Nanomaterials Elucidated by Synchrotron RadiationBased Spectroscopy. <b>2006</b> , 31, 91-110		25
1434	Strain and its effect on optical properties of Al-N codoped ZnO films. <b>2006</b> , 99, 023503		86
1433	Time-resolved investigation of bright visible wavelength luminescence from sulfur-doped ZnO nanowires and micropowders. <b>2006</b> , 6, 1126-30		97
1432	Size dependence of Zn 2p 3/2 binding energy in nanocrystalline ZnO. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 173118	3-4	109
1431	Toward laser emission of epitaxial nanorod arrays of ZnO grown by electrodeposition. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 233112	3-4	119
1430	Broadband ZnO single-nanowire light-emitting diode. <b>2006</b> , 6, 1719-22		491
1429	Electroluminescence and field emission of Mg-doped ZnO tetrapods. <b>2006</b> , 17, 5096-5100		29
1428	Optical Properties. <b>2006</b> , 531-607		
1427	Ab initio calculation of excitons in ZnO. <b>2006</b> , 73,		62
1426	Structural, optical, and electrical properties of (Zn,Al)O films over a wide range of compositions. <b>2006</b> , 100, 073714		363
1425	Raman scattering studies in dilute magnetic semiconductor Zn <sub>1-x</sub> CoxO. <b>2006</b> , 73,		182
1424	High-quality alloyed CdS <sub>x</sub> Se <sub>1-x</sub> whiskers as waveguides with tunable stimulated emission. <b>2006</b> , 110, 22313-7		47

1423	Lasing mechanism of ZnO nanowires/nanobelts at room temperature. <b>2006</b> , 110, 12865-73	112
1422	Structural and optical properties of Zn <sub>1-x</sub> Mg <sub>x</sub> O nanocrystals obtained by low temperature method. <b>2006</b> , 100, 034315	52
1421	Defect-related vibrational and photoluminescence spectroscopy of a codoped ZnO : Al : N film. <b>2006</b> , 39, 2339-2342	13
1420	Microstructure and Electronic Structure of Transparent Ferromagnetic ZnO/Spinel Iron Oxide Composite Films. <b>2006</b> , 18, 763-770	24
1419	Multiphoton route to ZnO nanowire lasers. <b>2006</b> , 31, 3345-7	53
1418	A low-temperature aqueous solution route to large-scale growth of ZnO nanowire arrays. <b>2006</b> , 352, 2569-2574	20
1417	Synthesis and characterization of ZnO nanostructures grown on Si substrates. <b>2006</b> , T126, 131-134	14
1416	Synthesis and structural and optical properties of ZnO micro- and nanostructures grown by the vapour-liquid-solid method. <b>2006</b> , T126, 53-56	7
1415	Effect of annealing temperature on properties of ZnO thin films on Si(111) substrates by magnetron sputtering. <b>2006</b> , 36, 1-4	12
1414	Synthesis of ultrathin ZnO nanofibers aligned on a zinc substrate. <b>2006</b> , 2, 612-5	86
1413	Study of photoluminescence from annealed bulk-ZnO single crystals. <b>2006</b> , 3, 1185-1188	2
1412	Free exciton luminescence of ZnO:Zn microcrystals under electron beam excitation. <b>2006</b> , 3, 1189-1192	2
1411	Photoluminescence of Mg <sub>x</sub> Zn <sub>1-x</sub> O films grown on a sapphire substrate by a MOCVD technique. <b>2006</b> , 3, 3508-3511	2
1410	Influence of annealing temperature on the structural and optical properties of sol-gel prepared ZnO thin films. <b>2006</b> , 203, 2418-2425	64
1409	Microstructures and MR effects of transparent ferromagnetic chemically prepared Fe <sub>2</sub> NiO films. <b>2006</b> , 203, 2760-2764	2
1408	CBE growth of high-quality ZnO epitaxial layers. <b>2006</b> , 243, 768-772	16
1407	Luminescence of CVD ZnO nanocrystals of different shapes. <b>2006</b> , 42, 508-514	9
1406	Low-temperature synthesis and shape control of ZnO nanorods. <b>2006</b> , 6, 796-800	13

1405	Influence of buffer layer thickness on the structure and optical properties of ZnO thin films. <b>2006</b> , 252, 2888-2893	45
1404	Fabrication and electrical characterization of nanocrystalline ZnO/Si heterojunctions. <b>2006</b> , 252, 3449-3453	37
1403	A nanoindentation study of the mechanical properties of ZnO thin films on (0 0 0 1) sapphire. <b>2006</b> , 253, 464-467	33
1402	Influence of annealing temperature on the properties of ZnO thin films deposited by thermal evaporation. <b>2006</b> , 252, 5594-5597	118
1401	ZnO thin films on Si(1 1 1) grown by pulsed laser deposition from metallic Zn target. <b>2006</b> , 253, 841-845	20
1400	Influence of post-annealing temperature on properties of ZnO:Li thin films. <b>2006</b> , 420, 358-361	31
1399	A novel photoluminescence transition influenced by O implantation in ZnO bulk. <b>2006</b> , 421, 309-311	2
1398	Optical properties of ZnO nanoplatelets and rectangular cross-sectioned nanowires. <b>2006</b> , 422, 46-50	21
1397	Thickness dependent photoconducting properties of ZnO films. <b>2006</b> , 427, 62-66	62
1396	Investigation on optical properties of ZnO nanowires by electron energy-loss spectroscopy. <b>2006</b> , 37, 229-233	39
1395	Recent progress in research on Mg <sub>x</sub> Zn <sub>1-x</sub> O alloys. <b>2006</b> , 126, 16-21	74
1394	Electronic structure of phosphorus dopants in ZnO. <b>2006</b> , 376-377, 699-702	14
1393	Electron irradiation-induced defects in ZnO studied by positron annihilation. <b>2006</b> , 376-377, 722-725	8
1392	Electrical properties of ZnO thin films grown by MOCVD. <b>2006</b> , 376-377, 749-751	12
1391	High-pressure oxygen treatment of ZnO thin films. <b>2006</b> , 376-377, 752-755	2
1390	Changes of structure and optical energy gap induced by oxygen pressure during the deposition of ZnO films. <b>2006</b> , 381, 109-112	13
1389	Growth of ZnO nanocrystals in silica by rf co-sputter deposition and post-annealing. <b>2006</b> , 244, 91-94	24
1388	Synthesis of ZnO nanorod and the annealing effect on its photoluminescence property. <i>Optical Materials</i> , <b>2006</b> , 28, 418-422	33 220

1387	Dry etching of bulk single-crystal ZnO in CH <sub>4</sub> /H <sub>2</sub> -based plasma chemistries. <b>2006</b> , 253, 889-894	16
1386	Comparison of CH <sub>4</sub> /H <sub>2</sub> and C <sub>2</sub> H <sub>6</sub> /H <sub>2</sub> inductively coupled plasma etching of ZnO. <b>2006</b> , 253, 1269-1273	22
1385	Effects of sapphire substrate annealing on ZnO epitaxial films grown by MOCVD. <b>2006</b> , 253, 1745-1747	22
1384	Synthesis and characterization of Al <sub>x</sub> N <sub>1-x</sub> codoped p-type ZnO epitaxial films using high-temperature homo-buffer layer. <b>2006</b> , 253, 1903-1906	15
1383	Fabrication of p-type ZnMgO codoped with Al and N using dc reactive magnetron sputtering. <b>2006</b> , 253, 2345-2347	12
1382	Preparation of zinc oxide nanorods using pulsed laser ablation in water media at high temperature. <b>2006</b> , 300, 612-5	117
1381	Improved reproducibility in zinc oxide single crystal growth using chemical vapor transport. <b>2006</b> , 286, 213-217	21
1380	Electronic structures of wurtzite ZnO and ZnO/MgZnO quantum well. <b>2006</b> , 287, 28-33	29
1379	Optical and photoelectrical properties of ZnO thin films and the effects of annealing. <b>2006</b> , 287, 48-53	30
1378	Exciton localization and Stokes shift in Zn <sub>1-x</sub> Cd <sub>x</sub> O thin films depending on chemical composition. <b>2006</b> , 287, 70-73	21
1377	Influence of annealing on optical properties and surface structure of ZnO thin films. <b>2006</b> , 287, 105-111	84
1376	Design and fabrication of ZnO light-emitting devices using filtered cathodic vacuum arc technique. <b>2006</b> , 287, 204-212	33
1375	Electrochemical deposition of ZnO film and its photoluminescence properties. <b>2006</b> , 286, 445-450	78
1374	Temperature dependence of structural and optical properties of ZnO films grown on Si substrates by MOCVD. <b>2006</b> , 290, 314-318	22
1373	Enhancement of near-band edge photoluminescence of ZnO thin films by employing MgF <sub>2</sub> buffer layer. <b>2006</b> , 290, 334-337	13
1372	Excitonic properties of vertically aligned ZnO nanotubes under high-density excitation. <b>2006</b> , 119-120, 228-232	10
1371	Strong ultraviolet emission from zinc oxide thin films prepared by electrophoretic deposition. <b>2006</b> , 121, 601-605	15
1370	Dynamics of high-density excitons and electron-hole plasma in ZnO epitaxial thin films. <b>2006</b> , 119-120, 346-349	18

1369	Temperature dependence of carrier transfer and exciton localization in ZnO/MgZnO heterostructure. <b>2006</b> , 119-120, 304-308		2
1368	Effect of interface on luminescence properties in ZnO/MgZnO heterostructures. <b>2006</b> , 119-120, 551-555		14
1367	Characterization and ellipsometric investigation of high-quality ZnO and ZnO(Ga <sub>2</sub> O <sub>3</sub> ) thin alloys by reactive electron-beam co-evaporation technique. <b>2006</b> , 37, 1080-1085		8
1366	Post-growth annealing of zinc oxide thin films pulsed laser deposited under enhanced oxygen pressure on quartz and silicon substrates. <b>2006</b> , 127, 150-153		54
1365	P-type doping with group-I elements and hydrogenation effect in ZnO. <b>2006</b> , 376-377, 707-710		36
1364	Effects of laser ablation in fabrication of ZnO nanorods by chemical vapor deposition. <i>Superlattices and Microstructures</i> , <b>2006</b> , 39, 67-74	2.8	12
1363	Role of low O <sub>2</sub> pressure and growth temperature on electrical transport of PLD grown ZnO thin films on Si substrates. <b>2006</b> , 50, 1119-1123		23
1362	Development of high frequency ZnO/SiO <sub>2</sub> /Si Love mode surface acoustic wave devices. <b>2006</b> , 50, 1113-1118		34
1361	Filtered vacuum arc deposition of undoped and doped ZnO thin films: Electrical, optical, and structural properties. <b>2006</b> , 201, 3993-3999		43
1360	Optical properties of ZnO thin film on LiAlO <sub>2</sub> substrate grown by pulsed laser deposition. <b>2006</b> , 496, 205-207		11
1359	Nano-wire pig-tailed ZnO nano-rods synthesized by laser ablation. <b>2006</b> , 506-507, 274-277		23
1358	Dependences of the Al thickness and annealing temperature on the structural, optical and electrical properties in ZnO/Al multilayers. <b>2006</b> , 497, 130-134		23
1357	Extraction of optical constants of zinc oxide thin films by ellipsometry with various models. <b>2006</b> , 510, 32-38		98
1356	Design of shallow acceptors in ZnO: First-principles band-structure calculations. <b>2006</b> , 74,		190
1355	Band parameters and electronic structures of wurtzite ZnO and ZnO/MgZnO quantum wells. <b>2006</b> , 99, 013702		69
1354	Optical and electrical properties of Zn <sub>1-x</sub> Cd <sub>x</sub> O films grown on Si substrates by reactive radio-frequency magnetron sputtering. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 181923	3.4	48
1353	Control of crystal polarity in oxide and nitride semiconductors by interface engineering. <b>2006</b> , 17, 255-261		7
1352	Hugely enhanced electroluminescence from mesoporous ZnO particles. <i>Optical Materials</i> , <b>2006</b> , 28, 385-390		36



1351	Stimulated ultraviolet emission from ZnO films annealed at high temperature. <b>2006</b> , 381, 20-23		3
1350	Photoluminescence studies of high-quality ZnO single crystals by hydrothermal method. <b>2006</b> , 376-377, 745-748		8
1349	Optical and morphological features of bulk and homoepitaxial ZnO. <i>Superlattices and Microstructures</i> , <b>2006</b> , 39, 247-256	2.8	10
1348	Annealing and oxidation mechanism of evaporated zinc thin films from zinc oxide powder. <b>2006</b> , 515, 1494-1499		26
1347	Selective and nonselective wet etching of Zn <sub>0.9</sub> Mg <sub>0.1</sub> O/ZnO. <b>2006</b> , 35, 516-519		16
1346	Synthesis and characterization of phosphorus-doped ZnO and (Zn,Mg)O thin films via pulsed laser deposition. <b>2006</b> , 35, 530-537		6
1345	Studies of the optoelectronic properties of ZnO thin films. <b>2006</b> , 35, 1728-1733		22
1344	Effect of annealing on the morphology and optoelectrical characteristics of ZnO thin films grown by plasma-assisted molecular beam epitaxy. <b>2006</b> , 35, 1316-1321		5
1343	Synthesis and optical properties of nano-ZnO particles/mesostructured SnO <sub>2</sub> composite. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 98, 121-124	4.4	11
1342	Large-scale synthesis of flower-like ZnO structures by a surfactant-free and low-temperature process. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 98, 523-527	4.4	76
1341	Raman spectra of single micrometer-sized tubular ZnO. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 99, 160-163	4.4	42
1340	The strain reduction and quality improvement in ZnO film by a 30° in-plane rotation with respect to the Al <sub>2</sub> O <sub>3</sub> substrate. <b>2006</b> , 41, 2198-2203		13
1339	Preparation and photoluminescence of ZnO complex structures with controlled morphology. <b>2006</b> , 60, 1354-1359		39
1338	Galvanic deposition of hexagonal ZnO thin films on TCO glass substrate. <b>2006</b> , 60, 1748-1752		34
1337	Anionic surfactant-assisted hydrothermal synthesis of high-aspect-ratio ZnO nanowires and their photoluminescence property. <b>2006</b> , 60, 2777-2782		57
1336	Synthesis and characterization of mesoporous zinc sulfide by surfactant-assisted templating process. <b>2006</b> , 60, 2896-2899		13
1335	Preparation and photoluminescence properties of ZnO/amorphous-BaTiO <sub>3</sub> thin-films by sol-gel process. <b>2006</b> , 60, 3818-3821		12
1334	Homoepitaxial Growth and Lasing Properties of ZnS Nanowire and Nanoribbon Arrays. <b>2006</b> , 18, 1527-1532		124

1333	UV Electroluminescence Emission from ZnO Light-Emitting Diodes Grown by High-Temperature Radiofrequency Sputtering. <b>2006</b> , 18, 2720-2724		552
1332	Blue Luminescent Center and Ultraviolet-Emission Dependence of ZnO Films Prepared by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 8586-8591	1.4	59
1331	Characteristics of Single Crystal ZnO Annealed in a Ceramic ZnO Box and Its Application for Epitaxial Growth of GaN. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 5724-5727	1.4	21
1330	Energy Variable Slow Positron Beam Study of Li + -Implantation-Induced Defects in ZnO. <b>2006</b> , 23, 675-677		6
1329	Structural, Morphology and Optical Properties of Epitaxial ZnO Films Grown on Al <sub>2</sub> O <sub>3</sub> by MOCVD. <b>2006</b> , 23, 1023-1025		2
1328	The Growth of ZnO on CrN Buffer Layer Using Surface Phase Control by Plasma Assisted Molecular-beam Epitaxy. <b>2006</b> , 957, 1		
1327	ZnO nanoparticles embedded in sapphire fabricated by ion implantation and annealing. <b>2006</b> , 17, 2636-40		44
1326	Nano-scale distribution of ZnO free exciton luminescence in ZnO:Zn microcrystals and its modification under electron beam excitation. <b>2006</b> , 18, 1967-75		17
1325	Optical Properties of ZnO Phosphors Activated with Mn and Se Impurity. <b>2006</b> , 35, 45-50		1
1324	Exciton structure in sodium doped zinc oxide quantum dots. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 053120	3.4	9
1323	Lasing in whispering gallery mode in ZnO nanonails. <b>2006</b> , 99, 093112		101
1322	Epitaxial relationship of ZnO film with Si (001) substrate and its effect on growth and morphology. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 251911	3.4	31
1321	Synthesis and temperature-dependent near-band-edge emission of chain-like Mg-doped ZnO nanoparticles. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 101902	3.4	41
1320	Correlation between the atomic structures and the misorientation angles of [0001]-tilt grain boundaries at triple junctions in ZnO thin films grown on Si substrates. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 101904	3.4	10
1319	Enhancement of near-band-edge photoluminescence of ZnO thin films in sandwich configuration at room temperature. <b>2006</b> , 99, 093520		16
1318	Structural characterization of ZnO films grown by molecular beam epitaxy on sapphire with MgO buffer. <b>2006</b> , 100, 103506		24
1317	Comparison of nanostructure characteristics of ZnO grown on GaN and sapphire. <b>2006</b> , 99, 054301		17
1316	Strain effects in ZnO thin films and nanoparticles. <b>2006</b> , 99, 064308		42

1315	Structural defects in an epitaxial ZnO(0112) r-plane sapphire studied by high-resolution electron microscopy and computer simulation. <b>2006</b> , 24, 264-268		6
1314	Terahertz dielectric properties of high-resistivity single-crystal ZnO. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 021103	3-4	45
1313	Correlation between Zn vacancies and photoluminescence emission in ZnO films. <b>2006</b> , 99, 053516		43
1312	Control and improvement of p-type conductivity in indium and nitrogen codoped ZnO thin films. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 252113	3-4	29
1311	STRUCTURE AND CHARACTERIZATION OF ZnO THIN FILM PREPARED BY SPIN COATING. <b>2006</b> , 13, 13-15		2
1310	The Effect of Ar[sub 2] Sputtering Gas on the Phosphorus-Doped p-Type ZnO Thin Films. <b>2006</b> , 153, G242		17
1309	Effects of homo-buffer layer on properties of ZnO films grown on Si(111) by pulsed laser deposition. <b>2006</b> ,		
1308	DEPENDENCE OF TEMPERATURE ON THE STRUCTURE AND PHOTOLUMINESCENCE OF ZnO THIN FILMS FABRICATED BY PULSED Nd:YAG LASER DEPOSITION ON SAPPHIRE SUBSTRATES. <b>2007</b> , 21, 1851-1860		<sup>2</sup>
1307	A uniform 290 nm periodic square structure on ZnO fabricated by two-beam femtosecond laser ablation. <b>2007</b> , 18, 505301		25
1306	A STUDY ON STRUCTURAL AND OPTOELECTRONIC PROPERTIES OF ZnO FILM PREPARED BY PULSED LASER DEPOSITION ON Si(111) SUBSTRATES. <b>2007</b> , 21, 1775-1785		3
1305	Structural and optical properties of ZnMgO thin films grown by pulsed laser deposition using ZnO-MgO multiple targets. <b>2007</b> , 59, 670-673		4
1304	Photoluminescence from diameter-selected ZnO nanorod arrays. <b>2007</b> , 18, 245701		25
1303	Study on Formation of ZnO/SiC Interface by SRPES. <b>2007</b> ,		
1302	Studies of Mn/ZnO (0001 ) Interfacial Formation and Electronic Properties with Synchrotron Radiation. <b>2007</b> ,		
1301	Polychromatic visible photoluminescence in porous ZnO nanotubes. <b>2007</b> , 40, 6549-6553		62
1300	Structural properties of pulsed laser deposited zinc oxide thin films annealed at various temperatures. <b>2007</b> , 23, 230-233		10
1299	Lasing with the shortest wavelength in substituted ZnO and lasing of ZnO microcrystal or scattering gain medium in closed microcavity. <b>2007</b> ,		
1298	Luminescence Property and Synthesis of Sulfur-doped ZnO Nanowires by Electrochemical Deposition. <b>2007</b> , 20, 632-636		5

1297	Crystal Structures of PtRu Alloy Schottky Contacts on ZnO by Combinatorial Ion Beam Deposition. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 2907-2909	1.4	4
1296	Controlled Growth of Zn-Polar ZnO Films on Al-Terminated Al <sub>2</sub> O <sub>3</sub> (0001) Surface by Using Wurtzite MgO Buffer. <b>2007</b> , 24, 2408-2411		3
1295	Determination of SiO <sub>2</sub> Thickness at the Interface of ZnO/Si by Ellipsometry. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 6068-6070	1.4	7
1294	Effect of oxygen pressure on structural and electrical properties of pulsed laser deposition-derived Zn <sub>0.95</sub> Mg <sub>0.05</sub> O: Li thin films. <b>2007</b> , 40, 3229-3232		5
1293	Growth and characterization of high quality homoepitaxial ZnO films by RF magnetron sputtering. <b>2007</b> , 22, 683-686		17
1292	Fabrication of single-crystal ZnO film by Zn ion implantation and subsequent annealing. <b>2007</b> , 18, 285609		10
1291	Persistent photoconductivity in highly porous ZnO films. <b>2007</b> , 101, 013709		88
1290	Initial formation mechanisms of the supersaturation region and the columnar structure in ZnO thin films grown on n-Si (001) substrates. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 031907	3.4	12
1289	Lasing in electrodeposited ZnO inverse opal. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 161116	3.4	27
1288	Room temperature observation of negative differential resistance effect using ZnO nanocrystal structure with double Schottky barriers. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 143118	3.4	11
1287	Effect of Co doping on the static dielectric constant of ZnO nanoparticles. <b>2007</b> , 101, 124911		42
1286	Synthesis and analysis of abnormal wurtzite ZnSe nanowheels. <b>2007</b> , 102, 044302		29
1285	Spatially confined light output of a crystalline zinc oxide nanonet laser. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 041103	3.4	10
1284	Multiphoton absorption pumped ultraviolet stimulated emission from ZnO microtubes. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 142109	3.4	19
1283	The properties of ZnO photoluminescence at and above room temperature. <b>2007</b> , 102, 116105		13
1282	Structure and dielectric function of two- and single-domain ZnO epitaxial films. <b>2007</b> , 102, 113505		7
1281	Demonstration of an ultraviolet ZnO-based optically pumped third order distributed feedback laser. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 111108	3.4	17
1280	Behavior of rapid thermal annealed ZnO:P films grown by pulsed laser deposition. <b>2007</b> , 102, 104904		27

1279	Low temperature electrical transport properties of B-doped ZnO films. <b>2007</b> , 102, 073708		40
1278	Effects of annealing on the photoluminescence of terbium-doped zinc oxide nanocrystalline. <b>2007</b> , 102, 073708		
1277	TRANSPARENT ZINC OXIDE THIN FILMS PREPARED BY PLD WITH DIFFERENT OXYGEN PRESSURES. <b>2007</b> , 14, 425-429		1
1276	Synthesis and Properties of TiO <sub>2</sub> /ZnO Core/Shell Nanomaterials. <b>2007</b> , 119, 239-242		4
1275	ZnO film for application in surface acoustic wave device. <b>2007</b> , 76, 012035		33
1274	Continuous preparation of decorated nano zinc oxide organic sols with intense luminescence. <b>2007</b> , 353, 374-378		13
1273	Polyhedral construction of hollow ZnO microspheres by CO <sub>2</sub> bubble templates. <b>2007</b> , 431, 241-245		42
1272	Effect of thickness on the structural, electrical and optical properties of ZnO films. <b>2007</b> , 42, 875-882		112
1271	Correlating Luminescence from Individual ZnO Nanostructures with Electronic Transport Characteristics. <b>2007</b> , 7, 3681-3685		35
1270	Electroluminescence of ZnO-based p-i-n structures fabricated by the ultrasound-spraying method. <b>2007</b> , 52, 300-302		
1269	Synthesis and Optical Characterizations of ZnO Nanorods. <b>2007</b> , 121-123, 805-808		1
1268	Fabrication and Photoluminescence Properties of ZnO Nanorods. <b>2007</b> , 24, 2678-2680		1
1267	Terahertz Dielectric Properties and Low-Frequency Phonon Resonances of ZnO Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 13000-13006	3.8	23
1266	Polarity control of ZnO films on (0001) Al <sub>2</sub> O <sub>3</sub> by Cr-compound intermediate layers. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 201907	3.4	44
1265	Oxygen plasma treated epitaxial ZnO thin films for Schottky ultraviolet detection. <b>2007</b> , 40, 1422-1425		41
1264	Contact to ZnO and intrinsic resistances of individual ZnO nanowires with a circular cross section. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 223117	3.4	33
1263	Growth and morphological study of zinc oxide nanoneedles grown on the annealed titanate nanotubes using hydrothermal method. <b>2007</b> , 102, 084302		13
1262	Possible approach to overcome the doping asymmetry in wideband gap semiconductors. <b>2007</b> , 98, 135506		184

1261	Transparent and Compact Zinc Oxide Thin Films via Two-Step Electrodeposition from Aqueous Solution. <i>Key Engineering Materials</i> , <b>2007</b> , 336-338, 2221-2223	0.4	
1260	Controlled catalytic growth and characterization of zinc oxide nanopillars on a-plane sapphire. <b>2007</b> , 101, 054319		24
1259	Lasing characteristics of Zn <sub>x</sub> Mg <sub>1-x</sub> O and ZnO:Al epilayers. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 241918	3.4	17
1258	High temperature electrical properties of ultra thin Ta <sub>2</sub> O <sub>5</sub> films on ZnO/n-Si heterolayers. <b>2007</b> ,		
1257	Fabrication of Two-Dimensional ZnO Nanostructures from Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17213-17220	3.8	19
1256	Morphology Controllable ZnO Growth on Facet-Controlled Epitaxial Lateral Overgrown GaN/Sapphire Templates. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 6405-6410	3.8	11
1255	Fabrication and Luminescent Properties of c-Axis Oriented ZnO/ZnS Core/Shell and ZnS Nanorod Arrays by Sulfidation of Aligned ZnO Nanorod Arrays. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 5039-5043	3.8	77
1254	Structural and optical properties of single crystal Zn <sub>1-x</sub> Mg <sub>x</sub> O nanorods: Experimental and theoretical studies. <b>2007</b> , 101, 033502		38
1253	Structure and optical properties of Cd-substituted ZnO (Zn <sub>1-x</sub> Cd <sub>x</sub> O) nanostructures synthesized by the high-pressure solution route. <b>2007</b> , 18, 115618		45
1252	Temperature dependent E2 Raman modes in the ZnCoO ternary alloy. <b>2007</b> , 75,		49
1251	Bonding of H in O vacancies of ZnO: Density functional calculations. <b>2007</b> , 75,		40
1250	Fundamental Properties of Wide Bandgap Semiconductors. <b>2007</b> , 25-96		
1249	Enhanced field emission properties from well-aligned zinc oxide nanoneedles grown on the Au/Ti/Si substrate. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 083107	3.4	78
1248	Characteristics of threading dislocations in ZnO grown on facet-controlled epitaxial overgrown GaN templates. <b>2007</b> , 19, 356203		3
1247	Solution-Derived ZnO Nanowire Array Film as Photoelectrode in Dye-Sensitized Solar Cells. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 2467-2471	3.5	137
1246	Site-Selective Deposition of Nanostructured ZnO Thin Films from Solutions Containing Polyvinylpyrrolidone. <b>2007</b> , 17, 2151-2159		25
1245	Hybrid ZnO/Dye Hollow Spheres with New Optical Properties by a Self-Assembly Process Based on Evans Blue Dye and Cetyltrimethylammonium Bromide. <b>2007</b> , 17, 1814-1820		101
1244	Amphoteric Phosphorus Doping for Stable p-Type ZnO. <b>2007</b> , 19, 3333-3337		76

1243	The influence of annealing atmosphere on the optical properties of flower-like ZnO. <b>2007</b> , 42, 1068-1072	11
1242	ZnO: material, physics and applications. <b>2007</b> , 8, 782-803	657
1241	Low temperature magnetoresistance of Al-doped ZnO films. <b>2007</b> , 141, 394-397	10
1240	Structural and UV photoluminescence properties of single crystalline SnO <sub>2</sub> films grown on $\alpha$ -Al <sub>2</sub> O <sub>3</sub> (0001) by MOCVD. <b>2007</b> , 144, 269-272	30
1239	Morphology and interface characteristics of ZnO films deposited at room temperature and 750°C. <b>2007</b> , 201, 5422-5426	7
1238	Metal-doped ZnO thin films: Synthesis and characterizations. <b>2007</b> , 201, 5318-5322	52
1237	Growth of $a\bar{b}$ -axis orientation ZnO films with zinc vacancies by SSCVD. <b>2007</b> , 81, 969-973	8
1236	Wet chemical etching of ZnO film using aqueous acidic salt. <b>2007</b> , 515, 3967-3970	28
1235	Successive preparation of decorated zinc oxide organic sol by pulsed laser ablation and their luminescence characteristics. <b>2007</b> , 253, 3751-3756	5
1234	Photoemission studies of initial oxidation for ultra-thin zinc film on 6H-SiC(0 0 0 1) surface with synchrotron radiation. <b>2007</b> , 253, 3761-3765	3
1233	Shape alterations of ZnO nanocrystal arrays fabricated from NH <sub>3</sub> /H <sub>2</sub> O solutions. <b>2007</b> , 253, 4072-4078	49
1232	Properties of ZnO thin films grown on Si substrates in vacuum and oxygen ambient by pulsed laser deposition. <b>2007</b> , 253, 6255-6258	12
1231	Growth of cubic Mg <sub>x</sub> Zn <sub>1-x</sub> O alloy films by electron beam evaporation. <b>2007</b> , 253, 9319-9322	3
1230	Nanosized ZnO confined inside a Faujasite X zeolite matrix: Characterization and optical properties. <b>2007</b> , 300, 145-149	31
1229	Preparation, photoluminescent properties and quantum size effect of ZnS nanoparticles @ mesoporous silica CMI-1. <b>2007</b> , 433, 350-354	25
1228	Al concentration dependence of electrical and photoluminescent properties of co-doped ZnO films. <b>2007</b> , 437, 203-206	16
1227	ZnO/mesoporous silica nanocomposites prepared by the reverse micelle and the colloidal methods: Photoluminescent properties and quantum size effect. <b>2007</b> , 438, 67-71	35
1226	Synthesis and field emission of patterned ZnO nanorods. <b>2007</b> , 7, 702-706	20

1225	The O <sub>2</sub> -dependent growth of ZnO nanowires and their photoluminescence properties. <b>2007</b> , 33, 1119-1123	11
1224	Synthesis of sulfur-doped ZnO nanowires by electrochemical deposition. <i>Materials Science in Semiconductor Processing</i> , <b>2007</b> , 10, 241-245	43 21
1223	Channeling contrast microscopy of epitaxial lateral overgrowth of ZnO/GaN films. <b>2007</b> , 260, 299-303	
1222	Influence of size effect and sputtering conditions on the crystallinity and optical properties of ZnO thin films. <b>2007</b> , 269, 346-350	48
1221	Upconversion luminescence and optical power limiting effect based on two- and three-photon absorption processes of ZnO crystal. <b>2007</b> , 280, 197-201	13
1220	Structural and optical characterization of ZnO nanocrystalline films deposited by sputtering. <i>Optical Materials</i> , <b>2007</b> , 29, 995-998	33 123
1219	Structural and optical properties of P-Ga codoping ZnO thin films deposited by magnetron sputtering. <i>Optical Materials</i> , <b>2007</b> , 29, 1358-1361	33 15
1218	Electrochemical deposition of (Mn,Co)-codoped ZnO nanorod arrays without any template. <b>2007</b> , 9, 1661-1666	30
1217	Blue luminescent centers and microstructural evaluation by XPS and Raman in ZnO thin films annealed in vacuum, N <sub>2</sub> and O <sub>2</sub> . <b>2007</b> , 388, 145-152	376
1216	Characteristics of ZnO/GaN heterostructure formed on GaN substrate by sputtering deposition of ZnO. <b>2007</b> , 137, 80-84	27
1215	Nanofabrication and characterization of ZnO nanorod arrays and branched microrods by aqueous solution route and rapid thermal processing. <b>2007</b> , 145, 57-66	152
1214	Effect of substrates on the properties of p-type ZnO films. <b>2007</b> , 39, 267-270	6
1213	Molecular dynamics simulation of P-VII relationship of ZnO with rock-salt structure using pair-wise interactions. <b>2007</b> , 68, 249-255	11
1212	Super-radiation processes of ZnO/Mg <sub>0.1</sub> Zn <sub>0.9</sub> O SQW under high-density excitation. <b>2007</b> , 122-123, 405-407	6
1211	Temperature-dependent photoluminescence of ZnO nanorods prepared by a simple solution route. <b>2007</b> , 122-123, 816-818	5
1210	Room-temperature stimulated emission from ZnO thin films grown by radio-frequency magnetron sputtering. <b>2007</b> , 122-123, 825-827	3
1209	Synthesis and room temperature photoluminescence of ZnO/CTAB ordered layered nanocomposite with flake-like architecture. <b>2007</b> , 126, 661-664	41
1208	Growth of non-polar ZnO/(Zn,Mg)O quantum well structures on R-sapphire by plasma-assisted molecular beam epitaxy. <b>2007</b> , 301-302, 366-369	40



1207	Growth of ZnO by chemical vapor transport using CO <sub>2</sub> and Zn as a transport agent. <b>2007</b> , 304, 37-41	15
1206	Structural and optical properties of ZnO epilayers grown by plasma-assisted molecular beam epitaxy on GaN/sapphire (0 0 0 1). <b>2007</b> , 305, 133-136	10
1205	Improvement of ZnO thin film properties by application of ZnO buffer layers. <b>2007</b> , 308, 93-98	31
1204	The influence of substrate temperature on ZnO thin films prepared by PLD technique. <b>2007</b> , 307, 278-282	33
1203	Misfit reduction by a spinel layer formed during the epitaxial growth of ZnO on sapphire using a MgO buffer layer. <b>2007</b> , 308, 314-320	18
1202	Low-temperature growth of high-quality ZnO layers by surfactant-mediated molecular-beam epitaxy. <b>2007</b> , 309, 158-163	8
1201	Threading dislocations in domain-matching epitaxial films of ZnO. <b>2007</b> , 40, 924-930	27
1200	Photoluminescence of nanocrystals embedded in oxide matrices. <b>2007</b> , 4, 248-252	1
1199	Structural characterization of MgO/c-Al <sub>2</sub> O <sub>3</sub> interfaces. <b>2007</b> , 4, 1715-1718	1
1198	Fabrication of porous ZnO nanostructures and morphology control. <b>2007</b> , 4, 1747-1750	15
1197	Hydrogen-assisted molecular-beam epitaxy of ZnO layers on Zn-polar ZnO. <b>2007</b> , 4, 1685-1688	
1196	Photoemission studies of Mn/ZnO(000-1) interface. <b>2007</b> , 39, 865-870	3
1195	Preparation and properties of ZnO and devices. <b>2007</b> , 244, 1439-1450	38
1194	Influence of underlying layers on the growth of 1D (Mg,Zn)O nanorods. <b>2007</b> , 244, 1517-1521	
1193	ZnO: From basics towards applications. <b>2007</b> , 244, 3027-3073	762
1192	Annealing effect on the microstructure and photoluminescence of ZnO thin films. <i>Materials Chemistry and Physics</i> , <b>2007</b> , 101, 285-290	4-4 96
1191	Low temperature solution synthesis and characterization of ZnO nano-flowers. <b>2007</b> , 42, 1640-1648	291
1190	Formation of mushroom-like ZnO microcrystals through a solution calcination process. <b>2007</b> , 61, 137-140	12

1189	Structural and luminescent properties of ZnO nanorods prepared from aqueous solution. <b>2007</b> , 61, 1876-1880	29
1188	Morphological control of flower-like ZnO nanostructures. <b>2007</b> , 61, 1964-1967	50
1187	The optical properties of ZnO sheets electrodeposited on ITO glass. <b>2007</b> , 61, 2000-2003	49
1186	Effect of oxygen partial pressure on the structural and optical properties of sputter deposited ZnO nanocrystalline thin films. <b>2007</b> , 61, 2050-2053	50
1185	Deformation behavior during nanoindentation of epitaxial ZnO thin films on sapphire substrate. <b>2007</b> , 61, 2443-2445	7
1184	Synthesis and characterization of a novel precursor for thin films of zinc oxide by SSCVD. <b>2007</b> , 61, 3539-3541	7
1183	Investigations on the growth of Zinc Oxide crystals from molten hydrous KOH solution and on the impedance analysis of Zinc Oxide crystals. <b>2007</b> , 61, 4090-4093	11
1182	A non-vacuum method for synthesis of ZnO films by thermal oxidation of ZnS films in air. <b>2007</b> , 61, 5243-5246	8
1181	Temperature dependence of the band structure of ZnS, ZnSe, ZnTe, and CdTe wurtzite-type semiconductor compounds. <b>2007</b> , 41, 886-896	7
1180	Growth and characterization of pulsed laser deposited ZnO thin films. <b>2007</b> , 5,	3
1179	Room-temperature stimulated emission of ZnO: Alternatives to excitonic lasing. <b>2007</b> , 75,	183
1178	Effect of substrate on the morphology, crystal structure and property of ZnO thin films. <b>2007</b> , 2, 388-393	2
1177	Theoretical study of alloys. <b>2007</b> , 394, 127-131	45
1176	Growth of ZnO nanostructures by vapor-liquid-solid method. <b>2007</b> , 88, 27-30	78
1175	H <sub>2</sub> O <sub>2</sub> -molecular beam epitaxy of high quality ZnO. <b>2007</b> , 88, 57-60	5
1174	ZnO homoepitaxy on the O polar face of hydrothermal and melt-grown substrates by pulsed laser deposition. <b>2007</b> , 88, 49-56	11
1173	Annealing effects of sapphire substrate on properties of ZnO films grown by magnetron sputtering. <b>2007</b> , 88, 727-729	3
1172	Growth of nanostructured ZnO thin films on sapphire. <b>2007</b> , 89, 49-55	20

1171	Vertically aligned growth of ZnO nanonails by nanoparticle-assisted pulsed-laser ablation deposition. <b>2007</b> , 89, 141-144		30
1170	Angularly resolved photoluminescent emission from pulsed-laser-deposited ZnO films with different microstructures. <b>2007</b> , 90, 141-147		2
1169	Synthesis and optical characteristic of ZnO nanorod. <b>2007</b> , 42, 406-408		20
1168	Optical properties of amorphous/crystalline ZnO nano-powder prepared by solid state reaction. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 381-384	2.1	20
1167	Deposition of nanocrystalline ZnO thin films on p-Si by novel galvanic method and application of the heterojunction as methane sensor. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 823-829	2.1	29
1166	Thickness-dependent optical properties of ZnO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 343-346	2.1	20
1165	Effect of doping on properties of ZnO:Cu and ZnO:Ag thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 1115-1118	2.1	18
1164	Effect of Killer Impurities on Optical Properties of ZnO at Low Temperature. <b>2007</b> , 147, 49-57		8
1163	Structural and optical properties of ZnO films grown on silicon and their applications in MOS devices in conjunction with ZrO <sub>2</sub> as a gate dielectric. <b>2007</b> , 30, 247-254		28
1162	Fabrication of p-Type ZnO Thin Films via DC Reactive Magnetron Sputtering by Using Na as the Dopant Source. <b>2007</b> , 36, 498-501		35
1161	Bias-Dependent Ultraviolet Photodetection by Au-Mg <sub>0.1</sub> Zn <sub>0.9</sub> O/ZnO-Ag Structure. <b>2007</b> , 36, 524-528		2
1160	Preparation of ZnO-doped Al films by spray pyrolysis technique. <b>2007</b> , 253, 3029-3033		116
1159	Dry etching of zinc-oxide and indium-zinc-oxide in IBr and BI <sub>3</sub> plasma chemistries. <b>2007</b> , 253, 3773-3778		14
1158	Production of porous nanostructured zinc oxide thin films by pulsed laser deposition. <i>Optical Materials</i> , <b>2007</b> , 29, 1111-1114	3.3	20
1157	Optical and morphological properties of MBE grown wurtzite Cd <sub>x</sub> Zn <sub>1-x</sub> O thin films. <i>Optical Materials</i> , <b>2007</b> , 30, 346-350	3.3	25
1156	Electronic and optical properties of ZnO thin film under in-plane biaxial strains: Ab initio calculation. <b>2007</b> , 372, 72-76		15
1155	Fabrication and properties of ZnO:Cu and ZnO:Ag thin films. <i>Superlattices and Microstructures</i> , <b>2007</b> , 42, 94-98	2.8	58
1154	Fabrication and characterization of n-ZnO on p-SiC heterojunction diodes on 4H-SiC substrates. <i>Superlattices and Microstructures</i> , <b>2007</b> , 42, 387-391	2.8	24

1153	Ferromagnetic modification of ZnO film by Fe+ ions implantation. <b>2008</b> , 266, 4891-4895		7
1152	Effect of sol concentration on the properties of ZnO thin films prepared by sol-gel technique. <b>2008</b> , 254, 2743-2747		149
1151	Study of the effect of plasma power on ZnO thin films growth using electron cyclotron resonance plasma-assisted molecular-beam epitaxy. <b>2008</b> , 255, 3375-3380		16
1150	Synthesis of two-dimensional ZnO nanopellets by pyrolysis of zinc oleate. <b>2008</b> , 142, 337-343		43
1149	Ab initio investigations on the electronic structure and optical properties of HX-ZnO. <b>2008</b> , 372, 5372-5376		5
1148	Microstructure and optical properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films grown by means of pulsed laser deposition. <b>2008</b> , 516, 5607-5611		9
1147	Temperature-dependent photoluminescence study of As-doped p-type (Zn <sub>0.93</sub> Mn <sub>0.07</sub> )O layer. <b>2008</b> , 516, 4889-4893		10
1146	ZnO microrods with etched surface prepared by two-step hydrothermal reaction. <b>2008</b> , 43, 2149-2152		9
1145	ZnO ultra-fine powders and films: hydrothermal synthesis, luminescence and UV lasing at room temperature. <b>2008</b> , 43, 2143-2148		9
1144	The effect of annealing temperature on the properties of ZnO films with preferential nonpolar plane orientation by SSCVD. <b>2008</b> , 43, 312-315		7
1143	Dislocations of ZnO single crystals examined by X-ray topography and photoluminescence. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2008</b> , 19, 199-201	2.1	6
1142	Effect of homo-buffer layers on the optical properties of ZnO thin films grown by pulsed laser deposition on Si (100). <i>Journal of Materials Science: Materials in Electronics</i> , <b>2008</b> , 19, 538-542	2.1	3
1141	Growth and characteristics of ternary Zn <sub>1-x</sub> Mg <sub>x</sub> O films using magnetron co-sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2008</b> , 19, 755-759	2.1	21
1140	Investigation of electrical and optical properties of ZnO thin films grown with O <sub>2</sub> /O <sub>3</sub> gas mixture. <b>2008</b> , 91, 251-254		1
1139	Pulsed laser deposition of high-quality ZnO films using a high temperature deposited ZnO buffer layer. <b>2008</b> , 91, 255-259		8
1138	Structure and ultrafast carrier dynamics in n-type transparent Mo:ZnO nanocrystalline thin films. <b>2008</b> , 92, 357-360		16
1137	ZnO lasing in complex systems with tetrapods. <b>2008</b> , 93, 231-238		24
1136	Growth of Polarity-Controlled ZnO Films on (0001) Al <sub>2</sub> O <sub>3</sub> . <b>2008</b> , 37, 736-742		13

1135	ZnO Thin Film, Device, and Circuit Fabrication using Low-Temperature PECVD Processes. <b>2008</b> , 37, 755-759	23
1134	Preparation and photoluminescence of ZnO with nanostructure by hollow-cathode discharge. <b>2008</b> , 2, 31-36	6
1133	Analysis of ZnO thin films by second harmonic generation. <b>2008</b> , 5, 552-554	2
1132	Enhancement of luminescence in ZnMgO thin-film nanophosphors and application for white light generation. <b>2008</b> , 205, 271-274	20
1131	Strong enhancement of emissions from nanostructured ZnO thin films grown by plasma-assisted molecular-beam epitaxy on nanopored Si(001) substrates. <b>2008</b> , 205, 1598-1601	
1130	Visible and infrared electroluminescence from an Er-doped n-ZnO/p-Si light emitting diode. <b>2008</b> , 205, 19-22	30
1129	Effect of O <sub>2</sub> partial pressure and substrate temperature on the plasma emission spectra and ZnO growth behavior. <b>2008</b> , 205, 961-964	2
1128	Properties of post-annealed ZnO films grown with O <sub>3</sub> . <b>2008</b> , 205, 1631-1635	
1127	Depth-profile analysis from X-ray photoelectron spectroscopy on As-implanted ZnO activated in ozone ambient. <b>2008</b> , 43, 289-292	9
1126	Morphology and photoluminescence properties of ZnO nanostructures fabricated with different given time of Ar. <b>2008</b> , 43, 1041-1045	22
1125	Synthesis and optical properties of ZnO nanorods. <b>2008</b> , 43, 1314-1317	13
1124	Interaction Scheme and Temperature Behavior of Energy Transfer in a Light-Emitting Inorganic-Organic Composite System. <b>2008</b> , 18, 751-757	35
1123	Ferromagnetism in ZnO Nanowires Derived from Electro-deposition on AAO Template and Subsequent Oxidation. <b>2008</b> , 20, 1170-1174	127
1122	Luminescence tuning and enhanced nonlinear optical properties of nanocomposites of ZnO-TiO <sub>2</sub> . <b>2008</b> , 324, 99-104	54
1121	Growth of ZnO thin film on p-GaN/sapphire (0001) by simple hydrothermal technique. <b>2008</b> , 310, 570-574	7
1120	Hydrothermal growth and characterization of ZnO crystals. <b>2008</b> , 310, 1819-1822	36
1119	Crystal growth of ZnO bulk by CVT method using PVA. <b>2008</b> , 310, 1827-1831	19
1118	Effects of Zn pre-exposure temperature on the microstructures of ZnO films grown on Si(001) substrates by plasma-assisted molecular beam epitaxy. <b>2008</b> , 310, 1118-1123	6

1117	Structural and photoluminescence properties of single crystalline SnO <sub>2</sub> :In films deposited on Al <sub>2</sub> O <sub>3</sub> (0001) by MOCVD. <b>2008</b> , 310, 3718-3721	15
1116	Characterization of microstructure and defects in epitaxial ZnO (112̄0) films on Al <sub>2</sub> O <sub>3</sub> (11̄02) substrates by transmission electron microscopy. <b>2008</b> , 310, 4102-4109	26
1115	Influence of Zn/O flux ratio and Mn-doped ZnO buffer on the plasma-assisted molecular beam epitaxy of ZnO on c-plane sapphire. <b>2008</b> , 310, 4503-4506	7
1114	Growth of c-oriented ZnO films on (001) substrates by MOCVD. <b>2008</b> , 311, 200-204	18
1113	Optical properties of nanostructured ZnO crystal synthesized by pulsed-laser ablation. <b>2008</b> , 40, 2489-2493	11
1112	Influence of S incorporation on the luminescence property of ZnO nanowires by electrochemical deposition. <b>2008</b> , 372, 2900-2903	21
1111	Broadening of band-gap in photonic crystals with optically saturated media. <b>2008</b> , 281, 3131-3136	2
1110	Ligand-field treatment for the optical and electron paramagnetic resonance spectra of ZnO:V(3+). <b>2008</b> , 71, 993-5	6
1109	Structural and PL properties of Cu-doped ZnO films. <b>2008</b> , 128, 297-300	107
1108	Nano-star formation in Al-doped ZnO thin film deposited by dip-dry method and its characterization using atomic force microscopy, electron probe microscopy, photoluminescence and laser Raman spectroscopy. <b>2008</b> , 128, 1577-1586	114
1107	The high quality ZnO growth on c-Al <sub>2</sub> O <sub>3</sub> substrate with Cr <sub>2</sub> O <sub>3</sub> buffer layer using plasma-assisted molecular beam epitaxy. <b>2008</b> , 254, 7786-7789	7
1106	Formation of ZnO and Zn <sub>1-x</sub> CdxO films on CdTe/CdZnTe single crystals. <b>2008</b> , 254, 5403-5407	7
1105	Defect engineering of ZnO. <b>2008</b> , 255, 68-70	23
1104	Controlled synthesis of various ZnO nanostructured materials by capping agents-assisted hydrothermal method for dye-sensitized solar cells. <b>2008</b> , 53, 7869-7874	121
1103	Spectral and nonlinear optical characteristics of nanocomposites of ZnO/Ag. <b>2008</b> , 455, 265-269	53
1102	Structural and optical properties of ZnO thin films on (111) CaF <sub>2</sub> substrates grown by magnetron sputtering. <i>Superlattices and Microstructures</i> , <b>2008</b> , 44, 54-61	2.8 19
1101	Effect of K-doping on structural and optical properties of ZnO thin films. <i>Superlattices and Microstructures</i> , <b>2008</b> , 44, 276-281	2.8 51
1100	Raman scattering of single tetrapod-like ZnO nanostructure synthesized by catalyst-free rapid evaporation. <b>2008</b> , 145, 418-422	29

1099	Influence of post-annealing conditions on properties of ZnO:Ag films. <b>2008</b> , 145, 479-481	42
1098	Excitation energy dependence of electron-phonon interaction in ZnO nanoparticles. <b>2008</b> , 147, 271-273	18
1097	Properties of high sensitivity ZnO surface acoustic wave sensors on SiO <sub>2</sub> /(1 0 0) Si substrates. <b>2008</b> , 52, 1710-1716	65
1096	Scaling behavior and coarsening transition of annealed ZnO films on Si substrate. <b>2008</b> , 202, 5410-5415	8
1095	A buffer layer for ZnO film growth on sapphire. <b>2008</b> , 602, 2600-2603	9
1094	Effects of growth atmosphere and homo-buffer layer on properties of ZnO films prepared on Si(1 1 1) by PLD. <b>2008</b> , 82, 664-667	8
1093	The effects of buffer growth parameters on heteroepitaxial ZnO films grown by pulsed laser deposition. <b>2008</b> , 82, 1259-1263	2
1092	Application of pulsed laser deposited zinc oxide films to thin film transistor device. <b>2008</b> , 516, 3767-3771	48
1091	Physical properties and etching characteristics of metal (Al, Ag, Li) doped ZnO films grown by RF magnetron sputtering. <b>2008</b> , 516, 6598-6603	24
1090	Ultraviolet emission properties of ZnO film with zinc deficiency by SS CVD. <b>2008</b> , 254, 1599-1603	12
1089	Porous ZnO nanobelts evolved from layered basic zinc acetate nanobelts. <b>2008</b> , 254, 3517-3521	31
1088	Influence of excitation light wavelength on the photoluminescence properties for ZnO films prepared by magnetron sputtering. <b>2008</b> , 254, 5100-5104	27
1087	A nanoindentation analysis of the influence of lattice mismatch on some wide band gap semiconductor films. <b>2008</b> , 403, 675-678	6
1086	Structural, optical, and hydrogenation properties of ZnO nanowall networks grown on a Si (111) substrate by plasma-assisted molecular beam epitaxy. <b>2008</b> , 403, 2590-2593	22
1085	Room-temperature excitonic lasing in ZnO tetrapod-like crystallites. <i>Optical Materials</i> , <b>2008</b> , 30, 1074-1078	21
1084	Dependence of Photovoltaic Property of ZnO/Si Heterojunction Solar Cell on Thickness of ZnO Films. <b>2008</b> , 25, 1829-1831	23
1083	Comparative photoluminescence study on p-type and n-type ZnO films codoped by nitrogen and aluminium. <i>Optical Materials</i> , <b>2008</b> , 30, 1422-1426	3-3 14
1082	Growth and Characterization of ZnO Nano- and Microstructures. <b>2008</b> , 293-323	2

1081	Characterization of cadmium doped zinc oxide (Cd : ZnO) thin films prepared by spray pyrolysis method. <b>2008</b> , 41, 245403		79
1080	Dislocations in P-MBE Grown ZnO Layers Characterized by HRXRD and TEM. <b>2008</b> ,		
1079	Microstructural study of MBE-grown ZnO film on GaN/sapphire (0001) substrate. <b>2008</b> , 6,		7
1078	Study of the optical response of phase-change recording layer with zinc oxide nanostructured thin film. <b>2008</b> , 229, 561-6		9
1077	Nanoindentation pop-in phenomenon in epitaxial ZnO thin films on sapphire substrates. <b>2008</b> , 59, 359-364		26
1076	Electroluminescence of ZnO nanocrystalline particles annealed from mesoporous precursors. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 107, 177-182	4.4	7
1075	Porous ZnS/ZnO microspheres prepared through the spontaneous organization of nanoparticles and their application as supports of holding CdTe quantum dots. <b>2008</b> , 43, 1135-1144		10
1074	Properties of Al heavy-doped ZnO thin films by RF magnetron sputtering. <b>2008</b> , 43, 1456-1462		39
1073	Microwave-assisted silica coating and photocatalytic activities of ZnO nanoparticles. <b>2008</b> , 43, 3416-3424		57
1072	Structure and luminescence of (Zn,Mg)O:Zn <sup>2+</sup> nanophosphor films. <b>2008</b> , 62, 374-376		
1071	Microwave synthesis and characterization of ZnO with various morphologies. <b>2008</b> , 62, 507-510		69
1070	ZnMgO nanorod arrays grown by metal-organic chemical vapor deposition. <b>2008</b> , 62, 1263-1266		8
1069	Morphology control and transition of ZnO nanorod arrays by a simple hydrothermal method. <b>2008</b> , 62, 1503-1506		59
1068	Fabrication of ZnO microtube arrays via vapor phase growth. <b>2008</b> , 62, 1528-1531		21
1067	The structure and photoluminescence properties of RF-sputtered films of ZnO on Teflon substrate. <b>2008</b> , 62, 2907-2909		16
1066	Photoluminescence study of ZnCdO alloy. <b>2008</b> , 103, 024901		34
1065	Optical Properties of ZnO and Related Compounds. <i>Springer Series in Materials Science</i> , <b>2008</b> , 79-124	0.9	29
1064	Spectral and nonlinear optical characteristics of nanocomposites of ZnO and SiO <sub>2</sub> . <b>2008</b> , 103, 094914		74



1063	The effect of Cu on O adsorption on a ZnO(0001) surface: a first-principles study. <b>2008</b> , 20, 095002		13
1062	Synthesis, optical properties and functional applications of ZnO nano-materials: A review. <b>2008</b> ,		3
1061	Morphology-Controlled Growth of ZnO Nanostructures Using Microwave Irradiation: from Basic to Complex Structures. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 12769-12776	3.8	301
1060	Cu-doped ZnO-based p-n hetero-junction light emitting diode. <b>2008</b> , 23, 095004		61
1059	Wurtzite structure high Mg content ZnMgO thin films deposited by oxygen-plasma enhanced pulsed laser deposition. <b>2008</b> ,		
1058	Spin-orbit coupling in bulk ZnO and GaN. <b>2008</b> , 104, 093712		74
1057	Characterization of ZnO plasma in a radio frequency sputtering system. <b>2008</b> , 103, 123305		11
1056	Positive Hall coefficients obtained from contact misplacement on evident n-type ZnO films and crystals. <b>2008</b> , 23, 2293-2295		33
1055	Evolution mechanisms of the surface morphology of grains in ZnO thin films grown on p-InP substrates due to thermal annealing. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 021904	3.4	6
1054	Effects of post-thermal annealing on the optical constants of ZnO thin film. <b>2008</b> , 448, 21-26		207
1053	Effects of supply time of Ar gas current on structural properties of Au-catalyzed ZnO nanowires on silicon (100) grown by vapor-liquid-solid process. <b>2008</b> , 450, 508-511		30
1052	Low-temperature growth and optical properties of ZnO nanorods. <b>2008</b> , 450, 521-524		65
1051	ZnO 3D flower-like nanostructure synthesized on GaN epitaxial layer by simple route hydrothermal process. <b>2008</b> , 463, 503-510		44
1050	Improvement of stoichiometry in (ZnO) <sub>1-x</sub> (GaN) <sub>x</sub> thin films grown by laser ablation. <b>2008</b> , 465, 502-505		4
1049	Electrically pumped ultraviolet ZnO diode lasers on Si. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 181106	3.4	241
1048	Linear and nonlinear optical characteristics of ZnO-SiO <sub>2</sub> nanocomposites. <b>2008</b> , 47, 4345-51		20
1047	Electronic structures of wurtzite ZnO, BeO, MgO and p-type doping in Zn <sub>1-x</sub> Y <sub>x</sub> O (Y=Mg, Be). <b>2008</b> , 44, 72-78		22
1046	Direct correlation between the internal quantum efficiency and photoluminescence lifetime in undoped ZnO epilayers grown on Zn-polar ZnO substrates by plasma-assisted molecular beam epitaxy. <b>2008</b> , 103, 063502		36

1045	Structural degradation and optical property of nanocrystalline ZnO films grown on Si (100). <i>Applied Physics Letters</i> , <b>2008</b> , 92, 233112	3-4	34
1044	Random laser action of ZnO@mesoporous silicas. <b>2008</b> , 19, 105710		19
1043	A first-principle analysis on the phase stabilities, chemical bonds and band gaps of wurtzite structure A(x)Zn(1-x)O alloys (A = Ca, Cd, Mg). <b>2008</b> , 20, 235221		60
1042	The structural properties of wurtzite and rocksalt Mg <sub>x</sub> Zn <sub>1-x</sub> O. <b>2008</b> , 23, 025008		29
1041	Growth Mechanism and Photonic Behaviours of Nanoporous ZnO Microcheerios. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 1623-1627	3-5	12
1040	Greatly Enhanced Optical Properties of ZnO Nanorods Grown on GaN in Aqueous Solution by Using Two-Step Treatment Method. <b>2008</b> , 155, K105		7
1039	Effects of oxygen contents in the active channel layer on electrical characteristics of ZnO-based thin film transistors. <b>2008</b> , 26, 1472		6
1038	Mg <sub>x</sub> Zn <sub>1-x</sub> O-Based Schottky Photodiode for Highly Color-Selective Ultraviolet Light Detection. <b>2008</b> , 1, 121201		24
1037	Gas Sensing Properties of ZnO Nanowires. <b>2008</b> , 67, 1-15		6
1036	Cathodoluminescent and electrical properties of an individual ZnO nanowire with oxygen vacancies. <b>2008</b> , 17, 3444-3447		14
1035	Influence of ZnO homobuffer layer on n-ZnO/p-Si photodiode. <b>2008</b> , 24, 1002-1004		3
1034	Growth of Thick Zinc Magnesium Oxide by Liquid Phase Epitaxy. <b>2008</b> , 1, 071201		9
1033	Enhanced luminescence and nonlinear optical properties of nanocomposites of ZnO/Cu. <b>2008</b> , 23, 2836-2845		14
1032	Effects of thermal annealing on the microstructural properties of the lower region in ZnO thin films grown on n-Si (001) substrates. <b>2008</b> , 23, 1082-1086		2
1031	Humidity Sensing Property of Zinc Oxide Film Deposited by PLD. <b>2008</b> , 1074, 1		1
1030	Effect of growth ambient on the structure and properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films prepared by radio-frequency magnetron sputtering. <b>2008</b> , 41, 105303		13
1029	Effect of Post-Annealing on Microstructural and Electrical Properties of N + Ion-Implanted into ZnO:In Films. <b>2008</b> , 25, 1128-1130		10
1028	Thermal and ion induced annealing of nanocrystalline ZnO thin film deposited by atom beam sputtering. <b>2008</b> , 41, 045305		31

1027	Effect of the magnesium composition on the properties of Mg <sub>x</sub> Zn <sub>1-x</sub> O-based homojunction light-emitting diodes. <b>2008</b> , 23, 045020		4
1026	Photoluminescence from ZnO nanoparticles in vapor phase. <b>2008</b> , 104, 064903		16
1025	Photoluminescence enhancement of ZnO microrods coated with Ag nanoparticles. <b>2008</b> , 20, 472202		18
1024	Dependence of Zn <sub>1-x</sub> Mg <sub>x</sub> O:P film properties on magnesium concentration. <b>2008</b> , 26, 968		3
1023	Cross-sectional shape modulation of physical properties in ZnO and Zn <sub>1-x</sub> CoxO nanowires. <b>2008</b> , 10, 033017		11
1022	Density-Controlled Growth of ZnO Nanowires Via Nanoparticle-Assisted Pulsed-Laser Deposition and Their Optical Properties. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 741-745	1.4	18
1021	Determination of Thickness and Optical Constants of ZnO Thin Films Prepared by Filtered Cathode Vacuum Arc Deposition. <b>2008</b> , 25, 743-746		18
1020	Highly efficient nonresonant two-photon absorption in ZnO pellets. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 041902	3.4	12
1019	High electron mobility of phosphorous-doped homoepitaxial ZnO thin films grown by pulsed-laser deposition. <b>2008</b> , 104, 013708		27
1018	Effects of interfacial layer structures on crystal structural properties of ZnO films. <b>2008</b> , 26, 90-96		25
1017	Inducing ferromagnetism in ZnO through doping of nonmagnetic elements. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 042514	3.4	37
1016	Spatially resolved cathodoluminescence spectra of excitons in a ZnO microparticle. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 041113	3.4	8
1015	Spatial and temporal studies of laser ablated ZnO plasma. <b>2008</b> , 104, 053307		5
1014	Demonstration of a ZnO/MgZnO-based one-dimensional photonic crystal multi-quantum well laser. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 101109	3.4	10
1013	Room temperature ferromagnetism of Fe-implanted ZnO film. <b>2008</b> , 26, 1469-1473		10
1012	Comparative study of photoluminescences for Zn-polar and O-polar faces of single-crystalline ZnO bulks. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 241907	3.4	29
1011	High-temperature strength and dislocation mobility in the wide band-gap ZnO: Comparison with various semiconductors. <b>2008</b> , 103, 093502		18
1010	The influence of nitrogen plasma treatment on the lattice vibrational properties of hydrothermally grown ZnO nanorods. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 141910	3.4	24

1009	Phosphorus doped ZnO light emitting diodes fabricated via pulsed laser deposition. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 112108	3-4	80
1008	Polarization-dependent confocal Raman microscopy of an individual ZnO nanorod. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 223102	3-4	40
1007	Electronic structure and optical gain of wurtzite ZnO nanowires. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 181101	3-4	6
1006	Characterization of an optically pumped ZnO-based 3rd order distributed feedback laser. <b>2008</b> ,		
1005	Laser spectroscopic study of acetate-capped colloidal ZnO nanoparticles. <b>2008</b> ,		
1004	ZnO Thin Films Prepared by the Electrochemical Method with Various Electrolytic Current. <b>2008</b> , 33, 1301-1304		3
1003	Interface structure and the chemical states of Pt film on polar-ZnO single crystal. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 221904	3-4	17
1002	Enhanced ultraviolet emission of ZnO/amorphous ZnO core-shell structure. <b>2009</b> ,		
1001	Carrier dynamics in bulk ZnO. I. Intrinsic conductivity measured by terahertz time-domain spectroscopy. <b>2009</b> , 80,		17
1000	Influence of Annealing on Photoluminescence of ZnO:Mn Thin Films Grown by Sol-Gel Technique. <b>2009</b> ,		1
999	High-resolution TEM investigation of structure and composition of polar Pd/ZnO interfaces. <b>2009</b> , 80,		12
998	Surface chemistry and surface electronic properties of ZnO single crystals and nanorods. <b>2009</b> , 27, 328-335		22
997	Ultraviolet photodetectors based on selectively grown ZnO nanorod arrays. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 203106	3-4	162
996	Epitaxial ZnO films on (111) Si substrates with Sc <sub>2</sub> O <sub>3</sub> buffer layers. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 122107	3-4	34
995	Raman analysis of longitudinal optical phonon-plasmon coupled modes of aligned ZnO nanorods. <b>2009</b> , 105, 073104		53
994	Hybrid structure laser based on semiconductor nanowires and a silica microfiber knot cavity. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 101108	3-4	38
993	ZnO Growth. <b>2009</b> , 77-129		
992	Effect of Cu Doping in the Structural, Electrical, Optical, and Optoelectronic Properties of Sol-Gel ZnO Thin Films. <b>2009</b> , 156, H285		36

991	Photoconductivity, dark-conductivity and photoluminescence study of hydrothermally synthesized ZnO nanoparticles. <b>2009</b> ,		1
990	Particle size distribution study by small-angle X-ray scattering technique and photoluminescence property of ZnO nanoparticles. <b>2009</b> , 4, 139-146		9
989	Optical Properties. <b>2009</b> , 131-244		3
988	Phonon assisted photoluminescence and surface optical mode of Zn embedded ZnO nanostructure. <b>2009</b> , 42, 075416		25
987	Structural characterization of two-step growth of epitaxial ZnO films on sapphire substrates at low temperatures. <b>2009</b> , 42, 105409		21
986	p-type behavior of nitrogen doped, lithium doped, and nitrogen-lithium codoped Zn <sub>0.11</sub> Mg <sub>0.89</sub> O thin films. <b>2009</b> , 27, 1897		4
985	Dopant activation in homoepitaxial MgZnO:P thin films. <b>2009</b> , 27, 1604		7
984	Growth of ZnO by cold-wall chemical vapor transport. <b>2009</b> , 27, 1652		3
983	Fabrication of one-dimensional and two-dimensional periodically polarity inverted ZnO structures using the patterned CrN buffer layers. <b>2009</b> , 27, 1658		1
982	Modal optical gain and cavity mode analysis of unstructured and optically structured ZnO nanocrystalline thin films. <b>2009</b> , 42, 135421		4
981	ZnO Crystal Growth by Cold-Wall Chemical Vapor Transport. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 021101	1.4	4
980	Low-Temperature Photoluminescence of Nanostructured ZnO Crystal Synthesized by Pulsed-Laser Ablation. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 085001	1.4	18
979	Laser-Like Emission From Highly Scattering ZnO Nanoparticle Films. <b>2009</b> ,		1
978	Structure and Optical Properties of ZnO/NiSiBi. <b>2009</b> , 12, H98		
977	Photoluminescence and Raman scattering of ZnO nanorods. <b>2009</b> , 11, 865-869		309
976	Morphology change of self-assembled ZnO 3D nanostructures with different pH in the simple hydrothermal process. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 113, 389-394	4.4	43
975	Effects of low-energy hydrogen ion implantation on optical properties of ZnO nanowires. <b>2009</b> , 44, 41-44		12
974	Structures, varistor properties, and electrical stability of ZnO thin films. <b>2009</b> , 63, 2321-2323		21

973	Stress and structural studies of ZnO thin films on polymer substrate under different RF powered conditions. <b>2009</b> , 63, 2597-2599		26
972	Low temperature hydrothermal growth and optical properties of ZnO nanorods. <b>2009</b> , 44, 87-91		62
971	Synthesis of tunable 3D ZnO architectures assembled with nanoplates. <b>2009</b> , 44, 613-618		10
970	Properties of InAs co-doped ZnO thin films prepared by pulsed laser deposition. <b>2009</b> , 44, 1319-1322		1
969	Study on luminescence characteristic of the ZnO/polymer hybrid films. <b>2009</b> , 287, 533-540		18
968	Structural and optical properties of nano-structured tungsten-doped ZnO thin films grown by pulsed laser deposition. <b>2009</b> , 255, 4153-4158		64
967	Low energy oxygen implantation induced improved crystallinity and optical properties of surface modified ZnO single crystals. <b>2009</b> , 256, 384-388		8
966	ZnO based surface acoustic wave ultraviolet photo sensor. <b>2009</b> , 22, 198-202		44
965	Effects of Mg doping concentration on the band gap of ZnO/Mg x Zn <sub>1-x</sub> O multilayer thin films prepared using pulsed laser deposition method. <b>2009</b> , 23, 442-446		11
964	Synthesis of optical quality ZnO nanowires utilizing ultrasonic spray pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2009</b> , 20, 341-345	2.1	13
963	n-ZnO:Ga/i-ZnO/p-Si heterojunction light emitting diodes fabricated on patterned Si substrates. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2009</b> , 20, 1214-1218	2.1	8
962	The formation of well-oriented dense ZnO film using MOCVD. <b>2009</b> , 61, 23-27		6
961	N Doping and Al-N Co-doping in Sol-Gel ZnO Films: Studies of Their Structural, Electrical, Optical, and Photoconductive Properties. <b>2009</b> , 38, 2335-2342		36
960	The effect of pre-annealing of sputtered ZnO seed layers on growth of ZnO nanorods through a hydrothermal method. <b>2009</b> , 94, 775-780		52
959	ZnO micro- and nano-structures: microwave-assisted solvothermal synthesis, morphology control and photocatalytic properties. <b>2009</b> , 97, 847-852		31
958	Lasing with guided modes in ZnO nanorods and nanowires. <b>2009</b> , 97, 817-823		16
957	ZnO nanowire field-effect transistor as a UV photodetector; optimization for maximum sensitivity. <b>2009</b> , 206, 179-182		57
956	Growth behavior and microstructure of ZnO epilayer on LiAlO <sub>2</sub> (100) substrate by chemical vapor deposition. <b>2009</b> , 206, 215-219		7

955	Study on the interfacial layer in ZnO/GaN heterostructure light-emitting diode. <b>2009</b> , 157, 32-35	27
954	Influence of Mg composition on the characteristics of MgZnO/ZnO heterostructures grown by co-sputtering. <b>2009</b> , 165, 80-84	14
953	Comparative study on structural and optical properties of ZnO thin films prepared by PLD using ZnO powder target and ceramic target. <b>2009</b> , 41, 530-534	45
952	Temperature dependent photoluminescence processes in ZnO thin films grown on sapphire by pulsed laser deposition. <b>2009</b> , 9, 179-183	29
951	Luminescence response of ZnO nanowires to gas adsorption. <b>2009</b> , 140, 461-466	58
950	Low-temperature polymer-assisted synthesis of shape-tunable zinc oxide nanostructures dispersible in both aqueous and non-aqueous media. <b>2009</b> , 339, 249-58	29
949	Growth of high-quality ZnO films on Al <sub>2</sub> O <sub>3</sub> (0 0 0 1) by plasma-assisted molecular beam epitaxy. <b>2009</b> , 311, 2163-2166	9
948	Feasibility study of barium fluoride films as a sacrificial layer for patterning of ZnO nanowire arrays. <b>2009</b> , 311, 2372-2376	
947	Study of microstructural evolutions in phosphorus-doped ZnO films grown by pulsed laser deposition. <b>2009</b> , 311, 3143-3146	12
946	Growth of ZnO crystal by self-flux method using Zn solvent. <b>2009</b> , 311, 3451-3454	7
945	Precursor-controlled synthesis of hierarchical ZnO nanostructures, using oligoaniline-coated Au nanoparticle seeds. <b>2009</b> , 311, 3889-3897	57
944	Morphology transition of one-dimensional ZnO grown by metal organic vapour phase epitaxy on (0 0 0 1)-ZnO substrate. <b>2009</b> , 311, 4311-4316	17
943	Microstructural characteristics and crystallographic evolutions of Ga-doped ZnO films grown on sapphire substrates at high temperatures by RF magnetron sputtering. <b>2009</b> , 311, 4641-4646	6
942	Electroluminescence from a n-ZnO nanorod/p-CuAlO <sub>2</sub> heterojunction light-emitting diode. <b>2009</b> , 41, 635-639	52
941	Biomorphic synthesis of long ZnO hollow fibers with porous walls. <b>2009</b> , 209, 4088-4092	28
940	Optically induced magnetization in diluted magnetic quantum dots. <b>2009</b> , 321, 402-407	3
939	Effects of polyethylenimine on morphology and property of ZnO films grown in aqueous solutions. <b>2009</b> , 255, 6823-6826	11
938	Synchrotron radiation assistant MOCVD deposition of ZnO films on Si substrate. <b>2009</b> , 255, 7695-7699	2

937	Formation of p-type ZnMgO thin films by In <sub>N</sub> codoping method. <b>2009</b> , 256, 627-630		6
936	Growth and characteristics of hydrogenated In-doped ZnO thin films by pulsed DC magnetron sputtering. <b>2009</b> , 256, 1589-1594		19
935	Field emission properties of indium-doped ZnO tetrapods. <b>2009</b> , 9, e169-e172		15
934	Optical properties of ZnO nanoparticles embedded in a silicon nitride layer formed by sputtering and thermal treatment. <b>2009</b> , 9, e173-e175		3
933	Thin film epitaxy and structure property correlations for non-polar ZnO films. <b>2009</b> , 57, 4426-4431		34
932	X-ray photoelectron spectroscopy study on the CrN surface grown on sapphire substrate to control the polarity of ZnO by plasma-assisted molecular beam epitaxy. <b>2009</b> , 255, 8582-8586		6
931	Hydrothermal Growth of ZnO Single Crystals with High Carrier Mobility. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 4378-4383	3.5	67
930	Phonon dynamics of Zn(Mg,Cd)O alloy nanostructures and their phase segregation. <b>2009</b> , 106, 084306		55
929	ZnO Nanowires Grown by Chemical Bath Deposition in a Continuous Flow Microreactor. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 4538-4545	3.5	57
928	A Systematic Study on Zinc Oxide Materials Containing Group I Metals (Li, Na, K) Synthesis from Organometallic Precursors, Characterization, and Properties. <b>2009</b> , 21, 3889-3897		52
927	Probing the Surface Effect on Deep-Level Emissions of an Individual ZnO Nanowire via Spatially Resolved Cathodoluminescence. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 12715-12718	3.8	21
926	Stimulated Emission and Optical Third-Order Nonlinearity in Li-Doped ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13515-13521	3.8	20
925	Effects of Counteranions and Dissolved Oxygen on Chemical ZnO Deposition from Aqueous Solutions. <b>2009</b> , 156, H320		15
924	Microreactor for High-Yield Chemical Bath Deposition of Semiconductor Nanowires: ZnO Nanowire Case Study. <b>2009</b> , 48, 5954-5961		29
923	Synthesis of Visible Light-Sensitive ZnO Nanostructures: Subwavelength Waveguides <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 11952-11958	3.8	22
922	Growth Model of MOCVD Polycrystalline ZnO. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 4957-4962	3.5	75
921	A theoretical study of thermal stability and electronic properties of wurtzite and zincblende ZnO <sub>x</sub> S <sub>1-x</sub> . <b>2009</b> , 11, 093008		37
920	Sulfide Treatment of ZnO Single Crystals and Nanorods and the Effect on P3HT/ZnO Photovoltaic Device Properties. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 21147-21154	3.8	30



919	Growth and annealing properties of Mg <sub>0.4</sub> Al <sub>2.4</sub> O <sub>4</sub> crystal. <b>2009</b> , 470, L29-L32		4
918	Study on growth and characterization of ScAlMgO <sub>4</sub> substrate crystal. <b>2009</b> , 471, L43-L46		12
917	Room temperature anodic deposition and shape control of one-dimensional nanostructured zinc oxide. <b>2009</b> , 476, 513-518		30
916	Realization of p-type conduction in (ZnO) <sub>1-x</sub> (AlN) <sub>x</sub> thin films grown by RF magnetron sputtering. <b>2009</b> , 478, 54-58		12
915	Electrostatic spray deposited polycrystalline zinc oxide films for ultraviolet luminescence device applications. <b>2009</b> , 481, 735-739		33
914	Photoluminescence of Cd <sub>x</sub> Zn <sub>1-x</sub> O films grown on sapphire substrate by PLD technique. <b>2009</b> , 482, 393-395		12
913	ZnO glass-ceramics: An alternative way to produce semiconductor materials. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 151908	3-4	35
912	Synthesis of Hierarchically Grown ZnO@NT-WS <sub>2</sub> Nanocomposites. <b>2009</b> , 21, 5382-5387		14
911	Combustion Synthesis of Triangular and Multifunctional ZnO <sub>1-x</sub> N <sub>x</sub> (x=0.15) Materials. <b>2009</b> , 21, 351-359		108
910	Control of Polarity and Application to Devices. <b>2009</b> , 185-223		1
909	Optical properties and carrier dynamics of polarity controlled ZnO films grown on (0001) Al <sub>2</sub> O <sub>3</sub> by Cr-compound intermediate layers. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 061918	3-4	4
908	Oxygen-vacancy-induced green emission and room-temperature ferromagnetism in Ni-doped ZnO nanorods. <b>2009</b> , 11, 063009		100
907	Growth of ZnO and GaN Films. <b>2009</b> , 67-183		1
906	Effect of Cu/Li Co-Doping on the Structural, Optical, and Optoelectronic Properties of Sol-Gel ZnO Thin Films. <b>2009</b> , 156, H916		7
905	Carrier dynamics in bulk ZnO. II. Transient photoconductivity measured by time-resolved terahertz spectroscopy. <b>2009</b> , 80,		14
904	A comparative study of guided modes and random lasing in ZnO nanorod structures. <b>2009</b> , 42, 095106		12
903	Relationship between oxygen defects and the photocatalytic property of ZnO nanocrystals in Nafion membranes. <b>2009</b> , 25, 1218-23		291
902	Enhanced effect of electron-hole plasma emission in Dy, Li codoped ZnO nanostructures. <b>2009</b> , 105, 014311		16

901	Magnetism and band gap narrowing in Cu-doped ZnO. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 142502	3.4	172
900	Novel Single-Crystalline Hierarchical Structured ZnO Nanorods Fabricated via a Wet-Chemical Route: Combined High Gas Sensing Performance with Enhanced Optical Properties. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 1716-1722	3.5	61
899	Fabrication of Mesoporous CdTe/[emailprotected]2 Core/Shell Nanostructures with Tunable Dual Emission and Ultrasensitive Fluorescence Response to Metal Ions. <b>2009</b> , 21, 68-77		75
898	Synthesis and Growth Mechanism of One-Dimensional Zn/ZnO Core/Shell Nanostructures in Low-Temperature Hydrothermal Process. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 3024-3030	3.5	31
897	Structural and stimulated emission characteristics of diameter-controlled ZnO nanowires using buffer structure. <b>2009</b> , 42, 225403		4
896	Mechanism of Na-doped p-type ZnO films: Suppressing Na interstitials by codoping with H and Na of appropriate concentrations. <b>2009</b> , 106, 093508		37
895	Nanostructured colloidal crystals from forced hydrolysis methods. <b>2009</b> , 25, 9051-6		7
894	Trimming of aqueous chemically grown ZnO nanorods into ZnO nanotubes and their comparative optical properties. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 073114	3.4	50
893	Synthesis of zinc oxide nanotiles by wet chemical route assisted by microwave heating. <b>2009</b> ,		1
892	Investigation of the physical and electronic properties of indium doped zinc oxide nanofibers synthesized by electrospinning. <b>2009</b> , 27, 2331		9
891	Fundamentals of zinc oxide as a semiconductor. <b>2009</b> , 72, 126501		2712
890	LUMINESCENCE CHARACTERISTICS OF RARE-EARTH ERBIUM ION-DOPED NANOCRYSTALLINE ZINC OXIDE. <b>2009</b> , 18, 649-656		1
889	Morphology-dependent stimulated emission and field emission of ordered CdS nanostructure arrays. <b>2009</b> , 3, 949-59		178
888	Colour electroluminescence with end light-emitting from ZnO nanowire/polymer film. <b>2009</b> , 152, 012054		2
887	Carrier dynamics and photoexcited emission efficiency of ZnO:Zn phosphor powders. <b>2009</b> ,		2
886	ZnO-ZrO <sub>2</sub> films with good UV-shielding properties prepared by a single step sol-gel method. <b>2009</b> , 117, 978-982		7
885	Synthesis of ZnO nanorods on porous silicon substrate using sol-gel method. <b>2009</b> , 13, 189-191		2
884	Synthesis and random laser application of ZnO nano-walls: a review. <b>2009</b> , 6, 723		8

883	Electrical Transport Properties Through Nanoscale and Large-Area Contacts of ZnO/Si Diodes. <b>2010</b> , 6, 219-225	4
882	The Origins of Photoluminescence Peaks in ZnO Nanocrystals Revealed by Microscopic Photoluminescence Imaging Spectroscopy. <b>2010</b> , 79, 054701	2
881	Energy Shift of Native 2.45 eV Related Defects in Annealed ZnO Films. <b>2010</b> , 15, 012041	1
880	Synthesis and characterization of nano ZnO and CdO. <b>2010</b> , 118, 329-332	10
879	Dependence of the stimulated luminescence threshold in ZnO nanocrystals on their geometric shape. <b>2010</b> , 44, 628-633	2
878	Mode structure of laser emission from ZnO Nanorods with one metal mirror. <b>2010</b> , 44, 1235-1240	6
877	Optical emission and absorption spectra of Zn/ZnO core-shell nanostructures. <b>2010</b> , 5, 134-142	12
876	Synthesis of p-type zinc oxide films by plasma-assisted pulsed laser deposition. <b>2010</b> , 101, 723-725	3
875	Effects of Mg content and B doping on structural, electrical and optical properties of Zn <sub>1-x</sub> Mg <sub>x</sub> O thin films prepared by MOCVD. <b>2010</b> , 312, 1929-1934	19
874	Structural and infrared properties of zinc oxide film and nanowires. <b>2010</b> , 312, 2220-2225	12
873	Investigation of initial growth and very thin () ZnO films by cross-sectional and plan-view transmission electron microscopy. <b>2010</b> , 256, 1849-1854	7
872	H <sub>2</sub> /Ar and vacuum annealing effect of ZnO thin films deposited by RF magnetron sputtering system. <b>2010</b> , 10, S495-S498	21
871	Effect of temperature on lateral growth of ZnO grains grown by MOCVD. <b>2010</b> , 36, 69-73	36
870	Experimental and theoretical studies on the magnetic property of carbon-doped ZnO. <b>2010</b> , 374, 496-500	22
869	Enhancement of ZnO thin film transistor performance by high-dose proton irradiation. <b>2010</b> , 268, 2522-2526	10
868	An approach to enhanced acceptor concentration in ZnO:N films. <b>2010</b> , 45, 4093-4096	8
867	Oxygen partial pressure dependence of the properties of MgZnO thin films during annealing. <b>2010</b> , 45, 6206-6211	4
866	Synthesis of gear-shaped ZnO microwires by chemical vapour deposition. <b>2010</b> , 5, 251	15

865	Growth and characterization of non-polar ZnO thin films by pulsed laser deposition. <b>2010</b> , 64, 1190-1192	15
864	Electrochemistry-assisted self-assembly of oriented zinc oxide and long-chain alkyl amine surfactant multilamellar nanostructures. <b>2010</b> , 12, 1593-1598	5
863	Scanning Photoelectron Microscopy for the Characterization of Novel Nanomaterials. <b>2010</b> , 79-118	
862	Controllable growth of well-aligned ZnO nanorod arrays by low-temperature wet chemical bath deposition method. <b>2010</b> , 256, 1698-1702	116
861	On the origin of intrinsic donors in ZnO. <b>2010</b> , 256, 3390-3393	19
860	Characterization of ZnO thin film synthesized on alumina-rich spinel substrate by magnetron sputtering. <b>2010</b> , 256, 4934-4937	4
859	Superhydrophobic and transparent ZnO thin films synthesized by spray pyrolysis technique. <b>2010</b> , 256, 7451-7456	87
858	Catalyst-free growth of well-aligned arsenic-doped ZnO nanowires by chemical vapor deposition method. <b>2010</b> , 257, 1084-1087	23
857	Investigation of room temperature UV emission of ZnO films with different defect densities induced by laser irradiation. <b>2010</b> , 76, 336-40	8
856	Metastable rocksalt ZnO interfacial layer and its influence on polarity selection of Zn-polar ZnO films. <b>2010</b> , 312, 263-266	7
855	Epitaxial growth of high quality cubic MgZnO films on MgO substrate. <b>2010</b> , 312, 875-877	28
854	A route to single-crystalline ZnO films with low residual electron concentration. <b>2010</b> , 312, 2861-2864	10
853	Depth-resolved cathodoluminescence study of zinc oxide nanorods catalytically grown on p-type 4H-SiC. <b>2010</b> , 130, 963-968	29
852	Phosphor-converted light-emitting diode based on ZnO-based heterojunction. <b>2010</b> , 130, 2215-2217	11
851	Sol-gel-deposited ZnO thin films: A review. <b>2010</b> , 174, 18-30	463
850	The structure and thermodynamic properties of zinc oxide with wurtzite and rocksalt structure under high pressures. <b>2010</b> , 405, 606-612	20
849	Effect of annealing temperature on the structural and optical properties of ZnO thin films prepared by RF magnetron sputtering. <b>2010</b> , 405, 1782-1786	54
848	Ferromagnetism in ZnO single crystal. <b>2010</b> , 405, 2659-2663	34

847	Fabrication and characterization of ZnO branched nanorods and ZnO/NiO heterojunction electrodes by chemical solution method. <b>2010</b> , 42, 2289-2294	17
846	Micro-structural investigations and paramagnetic susceptibilities of zinc oxide, europium oxide and their nanocomposite. <b>2010</b> , 322, 283-289	13
845	Study on the doping stability and electronic structure of wurtzite Zn <sub>1-x</sub> Cd <sub>x</sub> O alloys by first-principle calculations. <b>2010</b> , 71, 336-339	19
844	Well-aligned arrays of vertically oriented ZnO nanowires electrodeposited on ITO-coated glass and their integration in dye sensitized solar cells. <b>2010</b> , 211, 65-73	225
843	Preparation and characterization of Na-doped ZnO thin films by sol-gel method. <b>2010</b> , 405, 3167-3171	52
842	Nucleation and growth mechanisms of ZnO heterostructures controlled by temperature and pressure of CVD. <b>2010</b> , 167, 31-35	5
841	Properties of doped ZnO thin films grown by simultaneous dc and RF magnetron sputtering. <b>2010</b> , 171, 99-103	13
840	Structural, optical and electrical properties of Al-doped ZnO microrods prepared by spray pyrolysis. <b>2010</b> , 518, 4076-4080	75
839	The dry etching of a sol-gel deposited ZnO thin film in a high density BCl <sub>3</sub> /Ar plasma. <b>2010</b> , 518, 2905-2909	16
838	Fabrication of periodically polarity-inverted ZnO structures on (0001) Al <sub>2</sub> O <sub>3</sub> . <b>2010</b> , 518, 4117-4120	2
837	Formation of zinc oxide film by boiling metallic zinc film in ultrapure water. <b>2010</b> , 518, 5912-5915	8
836	Effects of low temperature ZnO and MgO buffer thicknesses on properties of ZnO films grown on (0001) Al <sub>2</sub> O <sub>3</sub> substrates by plasma-assisted molecular beam epitaxy. <b>2010</b> , 519, 223-227	12
835	Junction temperature in n-ZnO nanorods/(p-4H <sub>8</sub> BiC, p-GaN, and p-Si) heterojunction light emitting diodes. <b>2010</b> , 54, 536-540	13
834	Microstructural and surface property variations due to the amorphous region formed by thermal annealing in Al-doped ZnO thin films grown on n-Si (100) substrates. <b>2010</b> , 256, 1920-1924	9
833	Effect of aging time of ZnO sol on the structural and optical properties of ZnO thin films prepared by sol-gel method. <b>2010</b> , 256, 4543-4547	120
832	65 years of ZnO research bld and very recent results. <b>2010</b> , 247, 1424-1447	306
831	Anisotropic properties of periodically polarity-inverted zinc oxide structures. <b>2010</b> , 107, 123519	2
830	Determination of the microstructure of Eu-treated ZnO nanowires by x-ray absorption. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 062112	3-4 10

829	Optical transition dynamics in ZnO/ZnMgO multiple quantum well structures with different well widths grown on ZnO substrates. <b>2010</b> , 107, 033513		26
828	The Effects of Thermal Treatments on Microstructure Phosphorus-Doped ZnO Layers Grown by Thermal Evaporation. <b>2010</b> , 17, 863-872		4
827	Schottky barrier height behavior of PtRu alloy contacts on single-crystal n-ZnO. <b>2010</b> , 107, 103714		6
826	Soft-solution route to ZnO nanowall array with low threshold power density. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 043109	3-4	27
825	Ultraviolet stimulated emission in periodically polarity-inverted ZnO structures at room temperature. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 171101	3-4	1
824	Probing defects in chemically synthesized ZnO nanostructures by positron annihilation and photoluminescence spectroscopy. <b>2010</b> , 108, 064319		28
823	Characteristic of Al-Doped ZnO Nanorods by a Hydrothermal Process. <i>Key Engineering Materials</i> , <b>2010</b> , 434-435, 646-648	0-4	1
822	Zn Doped Nanocrystalline CuCl Thin Films for Optoelectronic Applications. <b>2010</b> , 1260, 1		
821	HYDROGENIC IMPURITY STATES IN WURTZITE ZnO/MgZnO QUANTUM DOT. <b>2010</b> , 24, 2793-2801		
820	LUMINESCENT PROPERTY OF ZNO GRANULAR FILMS WITH DIFFERENT PARTICLE SIZE. <b>2010</b> , 24, 2827-2832		2
819	Laser-assisted hydrothermal growth of size-controlled ZnO nanorods for sensing applications. <b>2010</b> , 21, 365502		8
818	Effects of annealing atmosphere on ZnO ions-implanted silica glass: synthesis of Zn and ZnO nanoparticles. <b>2010</b> , 43, 395404		9
817	Thickness effect on ultrafast thermalization of carriers in above-band-gap states in ZnO epitaxial films. <b>2010</b> , 43, 495103		12
816	Magnetism in ZnO nanowire with Fe/Co codoping: First-principles density functional calculations. <b>2010</b> , 81,		34
815	Laser-power-induced multiphonon resonant raman scattering in laser-heated CdS nanocrystal. <b>2010</b> , 114, 4199-203		23
814	In Situ X-ray Absorption Near-Edge Structure Spectroscopy of ZnO Nanowire Growth During Chemical Bath Deposition. <b>2010</b> , 22, 6162-6170		52
813	Investigation of low-temperature excitonic and defect emission from Ni-doped ZnO nanoneedles and V-doped ZnO nanostructured film. <b>2010</b> , 12, 023007		10
812	Nitrogen doped Mg <sub>0.9</sub> Zn <sub>0.1</sub> O/ZnO single heterostructure ultraviolet light-emitting diodes on ZnO substrates. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 013501	3-4	166

811	Compensation mechanism in N-doped ZnO nanowires. <b>2010</b> , 21, 245703		39
810	Growth and microstructure for visible emission and surface optical phonon mode of ZnZnO nanostructure. <b>2010</b> , 90, 731-751		1
809	Optical resonant cavity in a nanotaper. <b>2010</b> , 10, 2038-42		15
808	Band gaps and electronic structure of alkaline-earth and post-transition-metal oxides. <b>2010</b> , 81,		70
807	Optimizing the power output of a ZnO photocell by piezopotential. <b>2010</b> , 4, 4220-4		102
806	Templated self-assembly of ZnO films on monolayer patterns with nanoscale resolution. <b>2010</b> , 26, 3774-8		13
805	Self-Formed Thin Buffer Layer Assisted Growth of MgZnO Nanowall Structures on GaAs Substrates. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 5205-5209	3.5	3
804	Effect of thermal annealing on the structural and optical properties of ZnO thin films deposited by the reactive e-beam evaporation technique. <b>2010</b> , 82, 065801		54
803	Direct Growth of Lateral ZnO Nanorod UV Photodetectors with Schottky Contact by a Single-Step Hydrothermal Reaction. <b>2010</b> , 2, 1973-1979		134
802	Nonlinear Optics, High Density Effects and Stimulated Emission. <i>Springer Series in Materials Science</i> , <b>2010</b> , 275-306	0.9	2
801	Oriented growth of ZnO nanostructures on different substrates via a hydrothermal method. <b>2010</b> , 489, 51-55		58
800	Effect of thermal treatment on the structure and optical properties of biomimic hierarchical ZnO column arrays. <b>2010</b> , 495, 275-279		1
799	Influence of Zn/O ratio on structural, electrical and optical properties of ZnO thin films fabricated by plasma-assisted molecular beam epitaxy. <b>2010</b> , 503, 155-158		25
798	Influences in high quality zinc oxide films and their photoelectrochemical performance. <b>2010</b> , 503, 416-421		38
797	Study on chemical solution deposition of aluminum-doped zinc oxide films. <b>2010</b> , 505, 434-442		11
796	First-principle studies on the conductive behaviors of Ga, N single-doped and GaN codoped ZnO. <b>2010</b> , 50, 153-157		16
795	Aqueous Microwave Assisted Chemistry. <b>2010</b> ,		37
794	One-Step Synthesis of Nearly Monodisperse, Variable-Shaped In2O3 Nanocrystals in Long Chain Alcohol Solutions. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 4875-4886	3.8	38

793	Electro-Magneto-Optics in Polarity-Controlled Quantum Structures on ZnO. <b>2010</b> , 73-111	
792	Fabrication and optical properties of Mg x Zn 1k O thin films. <b>2010</b> , 19, 018102-3	
791	Recombination dynamics of excitons in phosphorus-doped ZnO nanostructures. <b>2010</b> ,	
790	Comparison of structural and photoluminescence properties of zinc oxide nanostructures influenced by gas ratio and substrate bias during radio frequency sputtering. <b>2010</b> , 28, C2B51-C2B55	6
789	Ga+ focused-ion-beam implantation-induced masking for H2 etching of ZnO films. <b>2010</b> , 21, 505703	2
788	Low-temperature photoluminescence of phosphorous-doped ZnO nanowires synthesized by nanoparticle-assisted pulsed-laser deposition. <b>2010</b> ,	
787	Assorted analytical and spectroscopic techniques for the optimization of the defect-related properties in size-controlled ZnO nanowires. <b>2011</b> , 3, 4830-9	40
786	Correlations between low temperature thermoluminescence and oxygen vacancies in ZnO crystals. <b>2011</b> , 109, 053508	15
785	Preparation and optical properties research of ZnO nanorod arrays. <b>2011</b> ,	
784	LPG gas sensing properties of CuO loaded ZnO thick film resistors. <b>2011</b> ,	1
783	Optical Properties of Mg-Substituted ZnO Nanoparticles Obtained by Solution Growth. <b>2011</b> , 10, 555-559	5
782	Electrodeposition of ZnO layers for photovoltaic applications: controlling film thickness and orientation. <b>2011</b> , 21, 12949	61
781	Semiconducting oxide heterostructures. <b>2011</b> , 26, 014040	8
780	Impurity induced bond-softening and defect states in ZnO:Cu. <b>2011</b> , 110, 043523	11
779	Nanophotonic Devices Based on ZnO Nanowires. <b>2011</b> , 317-362	1
778	Optical Properties of ZnO. <b>2011</b> , 29-60	
777	Growth Behavior of m-Plane ZnO Epilayer on (100) LiGaO2 by Chemical Vapor Deposition. <b>2011</b> , 158, H1166	7
776	Three-Dimensional Nanoarchitectures. <b>2011</b> ,	16



775	Electron energy loss spectroscopy of ZnO nanocrystals with different oxygen vacancy concentrations. <b>2011</b> , 109, 063523	30
774	A Systematic Study of Solution Aging Time Impact on Surface Morphology of Sol-Gel Derived ZnO Thin Films. <b>2011</b> , 216, 271-277	5
773	Photocatalytic activity and DFT calculations on electronic structure of N-doped ZnO/Ag nanocomposites. <b>2011</b> , 12, 890-894	24
772	Sol gel dip coated Aluminium doped zinc oxide films and their properties. <b>2011</b> ,	
771	Tunable deep-level emission in ZnO nanoparticles via yttrium doping. <b>2011</b> , 509, 3606-3612	57
770	Sb doping behavior and its effect on crystal structure, conductivity and photoluminescence of ZnO film in depositing and annealing processes. <b>2011</b> , 509, 5426-5430	38
769	ZnO nanocoral reef grown on porous silicon substrates without catalyst. <b>2011</b> , 509, 5627-5630	35
768	Vertically arrayed Ga-doped ZnO nanorods grown by magnetron sputtering: The effect of Ga contents and microstructural evaluation. <b>2011</b> , 330, 17-21	20
767	A comparative structure and morphology study of Zn(1-x)Cd <sub>x</sub> O solid solution grown on ZnO and different sapphire orientations. <b>2011</b> , 331, 18-24	10
766	The origin of p-type conduction in Li-N codoped ZnO: An ab initio calculation study. <b>2011</b> , 110, 013711	16
765	Room Temperature Stimulated Emission and ZnO-Based Lasers. <b>2011</b> , 265-284	1
764	ZnO Epitaxial Growth. <b>2011</b> , 368-395	2
763	Current Transport Mechanism in p-ZnO/n-6H-SiC Heterojunction. <b>2011</b> , 14, H389	1
762	Chemical solution epitaxy of ZnO nanorods. <b>2011</b> , 15, 357-360	4
761	Optimisation of zinc oxide nanorods for use in dye sensitised solar cells. <b>2011</b> , 15, 401-405	1
760	ZnO Thin-Film and Nanowire-Based Sensor Applications. <b>2011</b> , 149-214	2
759	Electro-chemical deposition of zinc oxide nanostructures by using two electrodes. <b>2011</b> , 1, 032147	13
758	Preparation of an Epitaxy-Ready Surface of a ZnO(0001) Substrate. <b>2011</b> , 4, 035701	19

757	First principles study on the structural and optical properties of the high-pressure ZnO phases. <b>2011</b> , 151, 1533-1536	16
756	Spray deposited superhydrophobic ZnO coatings via seed assisted growth. <b>2011</b> , 206, 1336-1341	20
755	Synthesis of conducting Zn <sub>1-x</sub> Mg <sub>x</sub> O: Al layers by spray pyrolysis for photovoltaic application. <b>2011</b> , 519, 7592-7595	15
754	Fabrication and characterization of high quality n-ZnO/p-GaN heterojunction light emission diodes. <b>2011</b> , 520, 445-447	16
753	Structural, optical and electrical properties of n-ZnO/p-Si heterojunction prepared by ultrasonic spray. <i>Materials Science in Semiconductor Processing</i> , <b>2011</b> , 14, 229-234	43 50
752	Structural, optical and electrical properties of cadmium zinc oxide films for light emitting devices. <b>2011</b> , 72, 1442-1446	31
751	Influence of Al concentration on electrical, structural and optical properties of Al <sub>x</sub> As codoped p-ZnO thin films. <b>2011</b> , 406, 4447-4452	8
750	Synthesis and properties of CdSe Quantum Dot sensitized ZnO nanocomposites. <b>2011</b> , 44, 555-564	6
749	Facile template-free fabrication of olive-like ZnO nanoparticles and their photoluminescence properties. <b>2011</b> , 65, 507-509	4
748	Fabrication and characterization of novel ZnO tetrapods induced by polar surfaces. <b>2011</b> , 65, 1659-1662	6
747	Structural and Optical Properties of Nonpolar $(11\bar{2}0)$ ZnO Films Grown by Plasma-Assisted Molecular-Beam Epitaxy. <b>2011</b> , 39, 700-703	11
746	Structural characteristics, low threshold ultraviolet lasing and ultrafast carrier dynamics in high crystalline ZnO nanowire arrays. <b>2011</b> , 515, 132-136	17
745	Electrodeposition of Cu-doped ZnO nanowire arrays and heterojunction formation with p-GaN for color tunable light emitting diode applications. <b>2011</b> , 56, 10543-10549	71
744	ZnO nanowire lasers. <b>2011</b> , 3, 2783-800	184
743	Interface engineering by piezoelectric potential in ZnO-based photoelectrochemical anode. <b>2011</b> , 11, 5587-93	108
742	Microfabrication of Photonic Structures with Higher Dimensionality. <b>2011</b> , 99-120	
741	Synthesis and Physical Properties of Mn Doped ZnO Dilute Magnetic Semiconductor Nanostructures. <b>2011</b> , 24, 699-704	11
740	Effect of oxygen injection on the size and compositional evolution of ZnO/Zn(OH) <sub>2</sub> nanocomposite synthesized by pulsed laser ablation in distilled water. <b>2011</b> , 13, 4143-4152	23

739	Hydrogenic impurity states in wurtzite symmetric ZnO/MgZnO coupled quantum dots. <b>2011</b> , 11, 16-20	7
738	Thickness dependence of the structural and electrical properties of ZnO thermal-evaporated thin films. <b>2011</b> , 77, 1171-1178	27
737	Facile solution growth of vertically aligned ZnO nanorods sensitized with aqueous CdS and CdSe quantum dots for photovoltaic applications. <b>2011</b> , 6, 340	60
736	Wavelength-Emission Tuning of ZnO Nanowire-Based Light-Emitting Diodes by Cu Doping: Experimental and Computational Insights. <b>2011</b> , 21, 3564-3572	138
735	Flux Bridgman growth and the influence of annealing temperatures on PL properties of ZnO single crystals. <b>2011</b> , 46, 1107-1110	5
734	Dependence of photoluminescence properties on excitation power in ZnO and ZnCdO microrods. <b>2011</b> , 46, 1303-1308	2
733	Synthesis of Exciton Luminescent ZnO Nanocrystals Using Continuous Supercritical Microfluidics. <b>2011</b> , 123, 12277-12280	13
732	Synthesis of exciton luminescent ZnO nanocrystals using continuous supercritical microfluidics. <b>2011</b> , 50, 12071-4	53
731	Unprecedented alkylzinc-magnesium alkoxide clusters as suitable organometallic precursors for magnesium-containing ZnO nanoparticles. <b>2011</b> , 17, 3904-10	18
730	Studies of structural evolution and sensing properties of ZnO nanocrystalline films. <b>2011</b> , 257, 4795-4800	22
729	Atomic structural variations of [0 0 0 1]-tilt grain boundaries during ZnO grain growth occurred by thermal treatments. <b>2011</b> , 257, 4817-4820	4
728	Effect of nickel doping on the photocatalytic activity of ZnO thin films under UV and visible light. <b>2011</b> , 257, 8113-8120	112
727	Multi-peak photoluminescence in ZnO nanocrystals studied by time-resolved and spatially-resolved photoluminescence spectroscopies. <b>2011</b> , 13, 78-81	2
726	Investigation of chemical mechanical polishing of zinc oxide thin films. <b>2011</b> , 257, 5837-5843	14
725	Structural and photoluminescent properties of Ni doped ZnO nanorod arrays prepared by hydrothermal method. <b>2011</b> , 257, 6540-6545	40
724	Enhancement of the ultraviolet emission of ZnO nanorods by terphenyl liquid-crystalline ligands modification. <b>2011</b> , 257, 8788-8793	14
723	Optimization of processing parameters on the controlled growth of ZnO nanorod arrays for the performance improvement of solid-state dye-sensitized solar cells. <b>2011</b> , 184, 615-623	45
722	First-principle study on the effect of high Li/N co-doping on the conductivity of ZnO. <b>2011</b> , 406, 1956-1960	14

721	Effect of MgZnO barrier layer on the UV emission of n-ZnO/p-Si heterojunction diodes. <b>2011</b> , 131, 1645-1648	14
720	Preparation and characterization of single crystalline SnO <sub>2</sub> films deposited on TiO <sub>2</sub> (001) by MOCVD. <b>2011</b> , 318, 599-601	4
719	Dopant concentration dependence of structure, optical, and magnetic properties of ZnO:Fe thin films. <b>2011</b> , 314, 30-33	18
718	Realization of non-polar ZnO (112 0) homoepitaxial films with atomically smooth surface by molecular beam epitaxy. <b>2011</b> , 325, 93-95	6
717	Electronic structure and optical properties of substitutional and interstitial phosphor-doped ZnO. <b>2011</b> , 375, 939-945	19
716	Adsorption of Ag and Au atoms on wurtzite ZnO (0001) surface. <b>2011</b> , 605, 40-45	12
715	Determination of the refractive index of single crystal bulk samples and micro-structures. <b>2011</b> , 519, 2777-2781	18
714	Growth of n-type $\beta$ -CuCl with improved carrier concentration by pulsed DC sputtering: Structural, electronic and UV emission properties. <b>2011</b> , 519, 6064-6068	10
713	Role of the crystallinity of ZnO films in the electrical properties of bottom-gate thin film transistors. <b>2011</b> , 519, 6801-6805	11
712	Properties of (11 $\bar{2}$ 0) a-plane ZnO films on sapphire substrates grown at different temperatures by plasma-assisted molecular beam epitaxy. <b>2011</b> , 519, 6394-6398	15
711	Growth and characterization of ZnMgSrO thin films lattice-matched to ZnO and with deep-UV energy band gap. <b>2011</b> , 519, 6579-6582	1
710	Hydrothermal synthesis and optical properties of ZnO particles. <b>2011</b> ,	
709	Photoluminescence Characterization of ZnO Thin Films Grown by RF- Sputtering. <b>2011</b> ,	
708	Optical modulation of persistent photoconductivity in ZnO nanowires. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 203108	3-4 27
707	Ultraviolet/orange bicolor electroluminescence from an n-ZnO/n-GaN isotype heterojunction light emitting diode. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 263502	3-4 27
706	Growth mechanism of ZnO low-temperature homoepitaxy. <b>2011</b> , 110, 053520	14
705	Ultrafast relaxation and absorption saturation at near exciton resonance in a thin ZnO epilayer. <b>2011</b> , 109, 013102	12
704	A comparative study of photoluminescence of Zn-polar and O-polar faces in single crystal ZnO using moment analysis. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 061907	3-4 11

703	Determination of effective mass of heavy hole from phonon-assisted excitonic luminescence spectra in ZnO. <b>2011</b> , 109, 053510	13
702	Role of ambient air on photoluminescence and electrical conductivity of assembly of ZnO nanoparticles. <b>2011</b> , 110, 054309	32
701	Effect of annealing on the electrical properties of ZnO crystals grown by chemical vapor transport. <b>2011</b> , 29, 03A112	3
700	Preparation of p-SnO/n-ZnO Heterojunction Nanowire Arrays and Their Optoelectronic Characteristics under UV Illumination. <b>2011</b> , 4, 025002	28
699	The Effect of Negative Substrate Bias on the Strain Prosperities of ZnO Films Deposited by PFCVAD. <b>2011</b> , 287-290, 2373-2380	
698	Photoluminescence of ZnO Whiskers with Various Excitation Intensity at Room Temperature. <b>2011</b> , 279, 161-165	
697	Optical Characterization of MBE-Grown ZnO Epilayers. <b>2011</b> , 222, 86-89	6
696	A Comparative Study of Structural and Optical Properties of ZnO Thin Film Prepared on Sapphire Substrate by PLD and Annealed. <b>2011</b> , 287-290, 2397-2400	1
695	Formation Mechanism of {0001} ZnO Epitaxial Layer on $\text{LiAlO}_2(100)$ Substrate by Chemical Vapor Deposition. <b>2011</b> , 158, H38	8
694	ELECTRICAL, MAGNETIC AND DIELECTRIC PROPERTIES OF $\text{Zn}_{1-x}\text{Cd}_x\text{O}$ SYSTEM. <b>2011</b> , 25, 3353-3360	1
693	Optical Properties. <b>2011</b> , 587-663	2
692	Sb complexes and Zn interstitials in Sb-implanted ZnO epitaxial films. <b>2011</b> , 20, 066104	1
691	Ultrasonic wave propagation in cadmium chalcogenides (CdS, CdSe and CdTe) compounds. <b>2011</b> , 7, 63-72	1
690	Impact of Mixture Gas Plasma of $\text{N}_2$ and $\text{O}_2$ as the N Source on ZnO-Based Ultraviolet Light-Emitting Diodes Fabricated by Molecular Beam Epitaxy. <b>2011</b> , 4, 091105	32
689	ELECTRICAL AND OPTICAL PROPERTIES OF ZnO THIN FILMS PREPARED BY R.F. MAGNETRON SPUTTERING. <b>2011</b> , 25, 2741-2749	4
688	Mn SUBSTITUTION EFFECTS AND ASSOCIATED DEFECTS IN ZnO NANOPARTICLES STUDIED BY POSITRON ANNIHILATION. <b>2011</b> , 06, 173-183	7
687	ZnO Thin Film Prepared by Simple Technique as UV-Photodetector. <b>2011</b> ,	1
686	Crystallinity Improvement of ZnO Thin Film on Different Buffer Layers Grown by MBE. <b>2012</b> , 2012, 1-7	25

685	The effects of ZnO buffer layers on the properties of phosphorus doped ZnO thin films grown on sapphire by pulsed laser deposition. <b>2012</b> , 45, 455102		2
684	Synthesis of ZnO Complex Structures at Different Molar Ratio of Zn (NO <sub>3</sub> ) <sub>2</sub> and KOH by Precipitation Method. <b>2012</b> , 576, 330-333		
683	Dilute Magnetic Semiconductors: ab initio Studies of V doped ZnO. <b>2012</b> , 45, 97-108		2
682	Study of near white light emission for ZnO thin films grown on silicon substrates. <b>2012</b> , 27, 115021		10
681	Characterization of a ZnO Epilayer Grown on Sapphire by using Rutherford Backscattering/Channeling and X-Ray Diffraction. <b>2012</b> , 29, 038201		
680	A Study of Stacked Buffer Layers for the Epitaxial Growth of Zn <sub>0.58</sub> Mg <sub>0.42</sub> O Films on Si-Sapphire by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 09MF06		1.4
679	First-principles Study on Neutral Nitrogen Impurities in Zinc Oxide. <b>2012</b> , 25, 48-52		4
678	Enhancement of laser action in ZnO nanorods assisted by surface plasmon resonance of reduced graphene oxide nanoflakes. <b>2012</b> , 20 Suppl 6, A799-805		25
677	Growth, optical, and electrical properties of nonpolar m-plane ZnO on p-Si substrates with Al <sub>2</sub> O <sub>3</sub> buffer layers. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 011901	3-4	46
676	Optical properties of amorphous ZnO thin film prepared from boiled Zn thin film in ultra high pure water. <b>2012</b> , 58, 30301		2
675	Formation of flower-like ZnO clusters by precipitation method. <b>2012</b> ,		
674	ZnO. <b>2012</b> , 127-149		
673	Synthesis of nestlike ZnO hierarchically porous structures and analysis of their gas sensing properties. <b>2012</b> , 4, 817-25		154
672	Control of ZnO Nanostructures via Vapor Transport. <b>2012</b> , 18, 282-288		2
671	Effect of Cd dopant on electrical and optical properties of ZnO thin films prepared by spray pyrolysis route. <b>2012</b> , 525, 49-55		65
670	Photoluminescence/Fluorescence Spectroscopic Technique for Nanomaterials Characterizations. <b>2012</b> , 555-620		
669	Role of Mg doping on morphology and photoluminescence features of Mg <sub>x</sub> Zn <sub>1-x</sub> O films prepared by ultrasonic spray pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2012</b> , 23, 1933-1937	2.1	6
668	Low-temperature hydrothermal growth of ZnO nanorods on sol-gel prepared ZnO seed layers: Optimal growth conditions. <b>2012</b> , 524, 144-150		28

667	Facile synthesis of Zn <sub>1-x</sub> Cu <sub>x</sub> O nanorods with a very broad visible band. <b>2012</b> , 8, 477-480		5
666	Integrated ultraviolet sensor using zinc oxide nanorods by ac-electric-field-assisted growth method. <b>2012</b> ,		
665	Fabrication and characterization of p-NiO/n-ZnO heterojunction towards transparent diode. <b>2012</b> ,		
664	Deviations in the Accumulated Dose For Archaeological Dating. <b>2012</b> , 29, 114-118		1
663	Deformation twinning in LiAlO <sub>2</sub> at elevated temperatures. <b>2012</b> , 551, 218-221		2
662	p-Type ZnO nanowires: From synthesis to nanoenergy. <b>2012</b> , 1, 247-258		61
661	A hydrometallurgical route to produce ZnO nanoparticles and NiO strips from the spent Ni/ZnO catalyst. <b>2012</b> , 121-124, 107-115		6
660	Edge dislocation effect on optical properties in wurtzite ZnO. <b>2012</b> , 340, 92-97		3
659	Electronic structure and optical transition in heavy metal doped ZnO by first-principle calculations. <b>2012</b> , 54, 75-80		18
658	Surface Work Function of Transparent Conductive ZnO Films. <b>2012</b> , 16, 76-80		36
657	n-ZnO nanorods/p+-Si (111) heterojunction light emitting diodes. <b>2012</b> , 7, 664		12
656	Zinc Oxide Nanostructures and their Applications. <b>2012</b> , 183-212		5
655	Dominant ultraviolet electroluminescence from p-ZnO:As/n-SiC(6H) heterojunction light-emitting diodes. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 101112	3-4	35
654	Investigation of the pulsed electrochemical deposition of ZnO. <b>2012</b> , 80, 60-67		6
653	Control of CVD-deposited ZnO films properties through water/DEZ ratio: Decoupling of electrode morphology and electrical characteristics. <b>2012</b> , 105, 46-52		48
652	Temperature-dependent shifts of near band-edge emission and their second-order diffraction for ZnO nanorods. <i>Optical Materials</i> , <b>2012</b> , 34, 1917-1920	3-3	19
651	Solution epitaxy of patterned ZnO nanorod arrays by interference lithography. <b>2012</b> , 58, 135-144		2
650	Properties of Cu-doped ZnO films by RF sputtering method: Thickness dependence. <b>2012</b> , 47, 2891-2894		16

649	Epitaxial growth of non-polar m-plane ZnO thin films by pulsed laser deposition. <b>2012</b> , 47, 2235-2238	7
648	Temperature dependence anomalous dielectric relaxation in Co doped ZnO nanoparticles. <b>2012</b> , 47, 4161-4168	44
647	Lasing behavior modulation for ZnO whispering-gallery microcavities. <b>2012</b> , 4, 6195-201	40
646	The Intermediate Density Regime. <b>2012</b> , 507-560	1
645	Electronic and optical properties of ZnO/(Mg,Zn)O quantum wells with and without a distinct quantum-confined Stark effect. <b>2012</b> , 111, 063701	21
644	Elevated temperature dependence of energy band gap of ZnO thin films grown by e-beam deposition. <b>2012</b> , 111, 073511	29
643	Slope selection-driven Ostwald ripening in ZnO thin film growth. <b>2012</b> , 86,	5
642	Development in p-type Doping of ZnO. <b>2012</b> , 27, 1184-1187	2
641	Photoluminescence studies of ZnO thin films on porous silicon grown by plasma-assisted molecular beam epitaxy. <b>2012</b> , 12, S94-S98	8
640	Ultra-fast microwave-assisted hydrothermal synthesis of long vertically aligned ZnO nanowires for dye-sensitized solar cell application. <b>2012</b> , 23, 165602	46
639	Temperature-Induced Irreversible Change of ZnO Optical Energy Gap. <b>2012</b> , 51, 1083-1085	6
638	Factors Affecting Laser-Excited Photoluminescence from ZnO Nanostructures. <b>2012</b> , 23, 649-659	14
637	Development of Galactose Biosensor Based on Functionalized ZnO Nanorods with Galactose Oxidase. <b>2012</b> , 2012, 1-7	16
636	Multicolor Luminescence from Semiconductor Nanocrystal Composites Tunable in an Electric Field. <b>2012</b> ,	1
635	Physical properties of metal-doped zinc oxide films for surface acoustic wave application. <b>2012</b> , 7, 25	13
634	Morphological, optical, and Raman characteristics of ZnO nanoflakes prepared via a sol-gel method. <b>2012</b> , 209, 143-147	46
633	Structural characterization of ZnO thin films grown on various substrates by pulsed laser deposition. <b>2012</b> , 45, 225101	24
632	Synthesis, characterisation and optical properties of MnTiO <sub>3</sub> nanopowders. <b>2012</b> , 7, 327-335	25



631	Investigation of phase segregation in Zn <sub>1-x</sub> Mg <sub>x</sub> O systems. <b>2012</b> , 12, 1166-1172		57
630	Characterization of Mg doped ZnO nanocrystallites prepared via electrospinning. <b>2012</b> , 38, 4201-4208		33
629	Magnetism in Sc-doped ZnO with zinc vacancies: A hybrid density functional and GGA+U approaches. <b>2012</b> , 532, 96-99		30
628	Confinement of zinc oxide nanoparticles in ordered mesoporous silica MCM-41. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 133, 850-856	4-4	55
627	Recombination luminescence and trap levels in undoped and Al-doped ZnO thin films on quartz and GaSe (0001) substrates. <b>2012</b> , 47, 794-797		1
626	Growth of Na doped p-type non-polar a-plane ZnO films by pulsed laser deposition. <b>2012</b> , 76, 81-83		13
625	Tunable electroluminescence from n-ZnCdO/p-GaN heterojunction. <b>2012</b> , 73, 217-220		9
624	Polymer-derived mesoporous SiOC/ZnO nanocomposite for the purification of water contaminated with organic dyes. <b>2012</b> , 151, 330-338		49
623	Nonlinear optical properties of CdxZn <sub>1-x</sub> O films deposited with PLD technique. <b>2012</b> , 285, 3269-3271		1
622	Effects of the oxygen partial pressure and annealing atmospheres on the microstructures and optical properties of Cu-doped ZnO films. <i>Superlattices and Microstructures</i> , <b>2012</b> , 51, 332-342	2.8	10
621	Possible approach to fabricate p-type ZnO through the Be <sub>N</sub> codoping method: First-principles calculations. <b>2012</b> , 152, 1-4		19
620	Strong P-band emission and third harmonic generation from ZnO nanorods. <b>2012</b> , 152, 1241-1243		11
619	Fabrication of Al <sub>3+</sub> and large radii mismatch As <sub>5+</sub> codoped p-ZnO thin film and homojunction. <b>2012</b> , 520, 5702-5705		1
618	Blue green and UV emitting ZnO nanoparticles synthesized through a non-aqueous route. <i>Optical Materials</i> , <b>2012</b> , 34, 1241-1245	3-3	26
617	Electronic structure and magnetic properties of Cr monodoped and (Cr, Al) codoped ZnO. <b>2012</b> , 407, 464-467		7
616	A comparison of electronic structure and optical properties between N-doped $\beta$ -Ga <sub>2</sub> O <sub>3</sub> and N <sub>2</sub> Zn co-doped $\beta$ -Ga <sub>2</sub> O <sub>3</sub> . <b>2012</b> , 407, 1227-1231		22
615	Thermoelectric figure of merit in Ga-doped [0001] ZnO nanowires. <b>2012</b> , 376, 978-981		35
614	Effect of buffer layers on the structural properties of PLD-grown Mg <sub>0.5</sub> Zn <sub>0.5</sub> O films on c-sapphire. <b>2012</b> , 60, 1656-1661		1

613	Effects of substrate on surface morphology, crystallinity, and photoluminescence properties of sputtered ZnO nano films. <b>2012</b> , 18, 203-207			5
612	Spectral dependence of transient reflectance in a ZnO epitaxial film at room temperature. <b>2012</b> , 106, 399-404			8
611	Solvent dependent growth of fibrous and non-fibrous nanocrystalline thin films of ZnO. <b>2013</b> , 66, 280-287			5
610	Detecting intermediate particles in the growth of colloidal zinc oxide nanoparticles in different chemical routes using MCRALS. <b>2013</b> , 27, 353-358			7
609	Ultraviolet photoresponse properties of ZnO:N/p-Si and ZnO/p-Si heterojunctions. <b>2013</b> , 199, 123-128			29
608	ZnO thin Films with blue emission grown using chemical spray pyrolysis. <i>Materials Science in Semiconductor Processing</i> , <b>2013</b> , 16, 326-331	4.3		31
607	Effect of preparation parameters on the morphologically induced photocatalytic activities of hierarchical zinc oxide nanostructures. <b>2013</b> , 39, 7367-7378			35
606	Sonochemical synthesis of nitrogen doped ZnO nanorods: effect of anions on growth and optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 4043-4049	2.1		12
605	One-dimensional ZnO nanostructures: fabrication, optoelectronic properties, and device applications. <b>2013</b> , 48, 6849-6877			134
604	Electronic band Gap of ZnO under triaxial strain. <b>2013</b> , 28, 48-51			6
603	Modification of the optical and structural properties of ZnO nanowires by low-energy Ar <sup>+</sup> ion sputtering. <b>2013</b> , 8, 162			12
602	Temperature-dependent photoluminescence properties of ZnO/Zn <sub>1-x</sub> MgxO multilayers grown by pulsed laser deposition. <b>2013</b> , 136, 285-290			3
601	Single bath electrodeposition of samarium oxide/zinc oxide nanostructured films with intense, broad luminescence. <b>2013</b> , 95, 170-178			4
600	Thermodynamic modeling of native defects in ZnO. <i>Optical Materials</i> , <b>2013</b> , 35, 1213-1217	3.3		11
599	Growth and Electro-Magneto-Optics of Oxide Quantum Structures Based on ZnO. <b>2013</b> , 767-807			
598	Detection of oxygen with electrochemically deposited ZnO thin films. <b>2013</b> , 186, 781-788			8
597	Electroluminescence from ZnO-nanorod-based double heterostructured light-emitting diodes. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 123504	3.4		20
596	Highly efficient green light harvesting from Mg doped ZnO nanoparticles: Structural and optical studies. <b>2013</b> , 552, 208-212			23

595	Observation of plasma and magnetoplasma resonances of two-dimensional electrons in a single MgZnO/ZnO heterojunction. <b>2013</b> , 98, 223-226			2
594	Effect of solution concentration on the structural, optical and conductive properties of ZnO thin films prepared by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 4932-4937 <sup>2,1</sup>			4
593	Soft x-ray spectroscopic investigation of Zn doped CuCl produced by pulsed dc magnetron sputtering. <b>2013</b> , 25, 285501			2
592	Self-assembled Mg <sub>x</sub> Zn <sub>1-x</sub> O quantum dots (0 ≤ x ≤ 1) on different substrates using spray pyrolysis methodology. <b>2013</b> , 15, 182-191			10
591	Continuous supercritical synthesis of high quality UV-emitting ZnO nanocrystals for optochemical applications. <b>2013</b> , 1, 5058			20
590	Impact of Auger recombination on hybrid green light-emitting diode. <b>2013</b> ,			1
589	Negative Slope for Second Harmonic Generation Observed at High Excitation Intensities in ZnO Nanorods. <b>2013</b> , 49, 903-909			7
588	Effect of pH variations and characterization of short length ZnO hexagonal nanorods from ZnS precursors. <b>2013</b> ,			
587	Catalyst-free thermally-evaporated growth and optical properties of ZnO nanowires on Si, GaN and sapphire substrates. <b>2013</b> , 48, 75-86			2
586	Gas sensing properties of self-assembled ZnO nanotube bundles. <i>RSC Advances</i> , <b>2013</b> , 3, 16619	3.7		24
585	Study the gas sensing mechanism of oxygen atom on Pd doped ZnO (0001). <b>2013</b> ,			1
584	Progress in the growth and characterization of nonpolar ZnO films. <b>2013</b> , 48, 532-542			35
583	Zinc oxide materials and devices grown by MBE. <b>2013</b> , 369-416			7
582	Deposition of ZnO and MgZnO films by magnetron sputtering. <b>2013</b> , 89, 254-256			8
581	A study on electrodeposited zinc oxide nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 153-159	2.1		25
580	Optical characterization of periodically polarity-inverted ZnO structures on (0001) Al <sub>2</sub> O <sub>3</sub> substrates. <b>2013</b> , 13, 1213-1217			
579	Epitaxial growth of nonpolar and polar ZnO on LiAlO <sub>2</sub> (100) substrate by plasma-assisted molecular beam epitaxy. <b>2013</b> , 377, 82-87			11
578	Synthesis of monoclinic structure gallium oxide epitaxial film on MgAl <sub>6</sub> O <sub>10</sub> (100). <b>2013</b> , 107, 83-85			12

577	The dependence of structural and optical properties of PLD grown ZnO films on ablation parameters. <b>2013</b> , 286, 54-60	20
576	The properties of ZnO nanofluids and the role of H <sub>2</sub> O <sub>2</sub> in the disinfection activity against Escherichia coli. <b>2013</b> , 47, 4013-21	36
575	Semiconductor nanowire lasers. <b>2013</b> , 5, 216	101
574	Growth control of nonpolar and polar quantum wells by pulsed-laser deposition. <b>2013</b> , 364, 81-87	9
573	Structure and optical properties of ternary alloy BeZnO and quaternary alloy BeMgZnO films growth by molecular beam epitaxy. <b>2013</b> , 274, 341-344	33
572	Structure dependent luminescence evolution of c-axis-oriented ZnO nanofilms embedded with silver nanoparticles and clusters prepared by sputtering. <b>2013</b> , 569, 144-149	27
571	Controlled morphology and size of ZnO nanocrystals using the continuous hot compressed water technique. <b>2013</b> , 79, 268-273	3
570	Defect chemical modeling of Pd/ZnO Schottky junctions. <b>2013</b> , 233, 80-86	2
569	Substrate surface polariton splitting due to thin zinc oxide and aluminum nitride films presence. <b>2013</b> , 267, 93-96	4
568	Performance enhancement of ZnO photocatalyst via synergic effect of surface oxygen defect and graphene hybridization. <b>2013</b> , 29, 3097-105	397
567	p-Type ZnO materials: Theory, growth, properties and devices. <b>2013</b> , 58, 874-985	300
566	Rational growth of semi-polar ZnO texture on a glass substrate for optoelectronic applications. <b>2013</b> , 46, 055105	4
565	Polarity Determination of Polarity-Controlled ZnO Films Using Photoresponse Characteristics. <b>2013</b> , 42, 716-719	2
564	Single-crystalline tower-like ZnO microrod UV lasers. <b>2013</b> , 1, 202-206	45
563	Recent developments and future directions in the growth of nanostructures by van der Waals epitaxy. <b>2013</b> , 5, 3570-88	122
562	Temperature dependent thermoelectric properties of chemically derived gallium zinc oxide thin films. <b>2013</b> , 1, 4122	27
561	Hybrid functional study of structural, electronic and magnetic properties of S-doped ZnO with and without neutral vacancy. <b>2013</b> , 578, 602-608	13
560	Observation of the amorphous zinc oxide recrystalline process by molecular dynamics simulation. <b>2013</b> , 113, 73512	11

559	Structural and optical characterisations of nitrogen doped ZnO nanowires grown by MOCVD. <b>2013</b> , 136, 265-269		12
558	Investigation of the blue-green emission and UV photosensitivity of Cu-doped ZnO films. <i>Materials Science in Semiconductor Processing</i> , <b>2013</b> , 16, 1079-1085	4-3	24
557	Enhanced band-gap emission in ZnO Nanocaves by two-step thermal oxidation Zn film. <b>2013</b> , 91, 139-141		8
556	The simple hydrothermal synthesis of Ag-ZnO-SnO <sub>2</sub> nanochain and its multiple applications. <b>2013</b> , 42, 16365-74		36
555	p-Type NiZnO thin films grown by photo-assist metal-organic chemical vapor deposition. <b>2013</b> , 579, 160-164		13
554	Carrier type- and concentration-dependent absorption and photoluminescence of ZnO films doped with different Na contents. <i>Materials Science in Semiconductor Processing</i> , <b>2013</b> , 16, 647-651	4-3	10
553	Synthesis and characterization of ZnO/ZnMgO multiple quantum wells by molecular beam epitaxy. <b>2013</b> , 3, 237		20
552	Hydrothermal Synthesis of Vertically Aligned Cesium-Doped ZnO Nanorods for Solar Cell Applications. <b>2013</b> , 23, 1219-1225		15
551	Low-threshold lasing action in an asymmetric double ZnO/ZnMgO quantum well structure. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 131104	3-4	21
550	Waveguide lasing from V-shaped ZnO microstructure. <b>2013</b> , 38, 2413-5		3
549	Growth of high quality ZnO thin films with a homonucleation on sapphire. <b>2013</b> , 31, 041206		5
548	Room Temperature Growth of Al-Doped ZnO Thin Films by Reactive DC Sputtering Technique with Metallic Target. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 01AC09	1-4	2
547	Non-polar p-type Zn <sub>0.94</sub> Mn <sub>0.05</sub> Na <sub>0.01</sub> O texture: Growth mechanism and codoping effect. <b>2013</b> , 113, 083513		7
546	P-type Conductivity of MgZnO:(N:Ga) Thin Films Prepared by Remote Plasma In-Situ Atomic Layer Doping. <b>2013</b> , 2, R249-R253		4
545	Fabrication of Well-Aligned ZnO Nanorods Using a Composite Seed Layer of ZnO Nanoparticles and Chitosan Polymer. <b>2013</b> , 6, 4361-4374		31
544	Oxygen polarity and interfacial atomic arrangement in an Mg <sub>x</sub> Zn <sub>1-x</sub> O/C-MgO/sapphire heterostructure. <b>2013</b> , 46, 145303		3
543	Synthesis of ZnO Nanorod Arrays on Chalcogenated Sol-Gel-Derived ZnO Thin Films and its Optical Absorption in Visible-Light Region. <b>2013</b> , 750-752, 253-258		
542	The Fabrication of Codoped ZnO Thin Films by DC Magnetron Sputtering. <i>Key Engineering Materials</i> , <b>2013</b> , 594-595, 958-961	0-4	

541	The Role of Oxygen Ambience on the Optical Characteristics of ZnO Films. <b>2013</b> , 711, 26-31	
540	Competition between second harmonic generation and two-photon-induced luminescence in single, double and multiple ZnO nanorods. <b>2013</b> , 21, 10025-38	19
539	Some Properties of Thin Film Structures on the Base of ZnO Obtained by MOCVD Method. <b>2013</b> , 200, 3-9	4
538	Double-Core-Slab-Waveguide Semiconductor Lasers for End Optical Pumping. <b>2013</b> , 6, 062702	1
537	Synthesis and Photoluminescence Studies of Ni Substituted ZnO Nanoparticles. <b>2013</b> , 133-138	
536	Prediction of Nanostructured ZnO Thin Film Properties Based on Neural Network. <b>2013</b> , 832, 266-269	
535	Morphologies of ZnO Crystals Synthesized by Hydrothermal Method. <b>2013</b> , 313-314, 193-197	
534	Temperature-dependent structural relaxation of BeZnO alloys. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 072104.4	25
533	Huge electron-hole exchange interaction in aluminum nitride. <b>2013</b> , 87,	24
532	19.3: Morphology Controlled Single-crystal ZnO Nanostructures Fabricated by a Novel Mist Chemical Vapor Deposition. <b>2013</b> , 44, 214-216	
531	Effect of growth temperature on the structure and optical properties of ZnO nanorod arrays grown on ITO substrate. <b>2013</b> , 48, 996-1002	9
530	Orientation dependent band alignment for p-NiO/n-ZnO heterojunctions. <b>2013</b> , 113, 163704	17
529	Mn concentration dependent structural and optical properties of a-plane Zn <sub>0.99-x</sub> Mn <sub>x</sub> Na <sub>0.01</sub> O. <b>2013</b> , 114, 223508	2
528	Defect studies of ZnO films prepared by pulsed laser deposition on various substrates. <b>2013</b> , 443, 012018	1
527	Influence of optical properties of ZnO thin-films deposited by spray pyrolysis and RF magnetron sputtering on the output performance of silicon solar cell. <b>2013</b> , 43, 012002	1
526	Chemical effect of Si <sup>+</sup> ions on the implantation-induced defects in ZnO studied by a slow positron beam. <b>2013</b> , 113, 043506	4
525	Temperature dependent transport and photoresponse properties of a Mn-doped ZnO/p-Si heterojunction. <b>2014</b> , 89, 045802	3
524	Electrically Pumped Ultraviolet Random Lasing from p-ZnO:As Based on p-ZnO/N-GaN Heterojunction. <b>2014</b> , 31, 058101	

523	Infrared femtosecond laser-induced great enhancement of ultraviolet luminescence of ZnO two-dimensional nanostructures. <b>2014</b> , 117, 1923-1932		3
522	Augmentation of band gap and photoemission in ZnO by Li doping. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 5201-5207	2.1	3
521	Tailoring optical properties of TiO <sub>2</sub> in silica glass for limiting applications. <b>2014</b> , 23, 034210		2
520	The Preparation of the Highly Preferred Orientation of Wurtzite Structure Zinc Oxide Films. <b>2014</b> , 936, 287-292		
519	Optical Characterization of (CdO) <sub>x</sub> (ZnO) <sub>1-x</sub> Composite by Spray Pyrolysis Technique. <b>2014</b> , 125, 82-86		1
518	Effect of Mineralizer Concentration on ZnO Crystals Synthesized by Hydrothermal Method. <b>2014</b> , 886, 7-11		
517	Epitaxial growth of ZnO on (1 1 1) Si free of an amorphous interlayer. <b>2014</b> , 47, 105302		9
516	Fabrication and properties of planar gate field emission arrays with patterned ZnO nanowires. <b>2014</b> , 29, 313-318		3
515	Effect of Si substrate orientation on morphology and electrical properties of ZnO:Al films. <b>2014</b> , 18, S4-652-S4-656		
514	Ultraviolet random lasing from asymmetrically contacted MgZnO metal-semiconductor-metal device. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 211107	3.4	11
513	Heterojunction of ZnO nanoparticle/PMMA and its ultraviolet electroluminescence. <b>2014</b> , 39, 2633-6		4
512	Controllable color display induced by excitation-intensity-dependent competition between second and third harmonic generation in ZnO nanorods. <b>2014</b> , 53, 189-94		14
511	Ultraviolet electroluminescence from hetero p-n junction between a single ZnO microsphere and p-GaN thin film. <b>2014</b> , 22, 10026-31		6
510	Polychromatic ZnO/Cd <sub>x</sub> Zn <sub>1-x</sub> O composite nanorods prepared by simple chemical methods: nanoscale optical characteristics. <b>2014</b> , 4, 1987		1
509	Effect of hydrogen on ZnO films and Au/ZnO Schottky contacts. <b>2014</b> , 29, 045012		7
508	Room-temperature ultraviolet laser emission from ZnO hexagonal microprisms. <b>2014</b> ,		
507	The role of beryllium in the band structure of MgZnO: Lifting the valence band maximum. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 122112	3.4	2
506	Heteroepitaxial ZnO films on diamond: Optoelectronic properties and the role of interface polarity. <b>2014</b> , 115, 213508		3

505	Fabrication of hollow ZnO nanostructures by a CTAB-assisted chemical bath deposition method. <b>2014</b> , 49, 899-906		4
504	Stabilizing reconstruction induced by O protrusions of the ZnO (0001) polar surface. <i>RSC Advances</i> , <b>2014</b> , 4, 54249-54255	3.7	2
503	P-85: ZnO Thin Film Phosphor Prepared on Different Substrates by Novel Multiple Reducing Annealing. <b>2014</b> , 45, 1305-1308		
502	Band gap tuning and nonlinear optical characterization of TiO <sub>2</sub> /BiO <sub>2</sub> nanocomposites with respect to composition and phase. <i>Optical Materials</i> , <b>2014</b> , 37, 433-438	3.3	9
501	Growth of non-polar ZnO thin films with different working pressures by plasma enhanced chemical vapor deposition. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 11RA05	1.4	4
500	First-principles study of zinc oxide: The p-type doping perspective. <b>2014</b> ,		1
499	Inverted polymer solar cells based on thin ZnO films grown by Mist chemical vapor deposition system. <b>2014</b> ,		1
498	Effect of Mineralizer Concentration on ZnO Crystals Synthesized by Hydrothermal Method. <b>2014</b> , 875-877, 1372-1376		
497	Photoluminescence characteristics of catalyst free ZnO nanowires. <b>2014</b> , 1, 015023		3
496	ZnO deposited on Si (111) with Al <sub>2</sub> O <sub>3</sub> buffer layer by atomic layer deposition. <b>2014</b> , 107, 120-123		13
495	Epitaxial growth of corundum-structured wide band gap III-oxide semiconductor thin films. <b>2014</b> , 401, 588-592		102
494	Optical spectroscopy of a-plane-oriented ZnO epilayers grown by plasma-assisted molecular beam epitaxy. <b>2014</b> , 115, 257-261		
493	Na to tailor the band gap and morphology of ZnO nanograins. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 103-110	2.1	5
492	Fabrication and properties of sulfur (S)-doped ZnO nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 157-162	2.1	4
491	Defects and acceptor centers in ZnO introduced by C <sup>+</sup> -implantation. <b>2014</b> , 49, 1994-1999		8
490	Synthesis and characterization of textured Al-doped zinc oxide films prepared by template-directed deposition. <b>2014</b> , 16, 1560-1567		11
489	Characteristic properties of Raman scattering and photoluminescence on ZnO crystals doped through phosphorous-ion implantation. <b>2014</b> , 115, 053521		9
488	Theoretical and experimental studies on electronic structure and optical properties of Cu-doped ZnO. <b>2014</b> , 589, 604-608		42



487	Efficient Pump Photon Recycling via Gain-Assisted Waveguiding Energy Transfer. <b>2014</b> , 1, 246-253		5
486	Characterizations of ZnO and Zn(1-x)Cd <sub>x</sub> O thin films grown on Zn- and O-face ZnO substrates by metal organic chemical vapor deposition. <b>2014</b> , 395, 14-21		10
485	SAXS and WAXS analysis of MgO doped ZnO nanostructured ceramics grown on Si and glass substrate. <b>2014</b> , 70, 125-132		2
484	Optical and electrical characterization of AZO films grown on c-plane sapphire substrates by atomic layer deposition. <b>2014</b> , 10, 259-262		9
483	Extended photoresponse and multi-band luminescence of ZnO/ZnSe core/shell nanorods. <b>2014</b> , 9, 31		17
482	ZnO nanostructured thin films: Structural and optical properties controlled by ruthenium content. <i>Superlattices and Microstructures</i> , <b>2014</b> , 67, 144-155	2.8	6
481	Synthesis of CdS/ZnO/graphene composite with high-efficiency photoelectrochemical activities under solar radiation. <b>2014</b> , 299, 12-18		132
480	Effect of annealing on the structural, morphological and photoluminescence properties of ZnO thin films prepared by spin coating. <b>2014</b> , 428, 8-15		83
479	The wurtzite rocksalt phase transition for a Be <sub>x</sub> Mg <sub>1-x</sub> Zn <sub>1-x</sub> O alloy: Be content vs Mg content. <b>2014</b> , 608, 197-201		5
478	Whiter, brighter, and more stable cellulose paper coated with antibacterial carboxymethyl starch stabilized ZnO nanoparticles. <b>2014</b> , 2, 3057-3064		30
477	Homoepitaxy of ZnO and MgZnO Films at 90°C. <b>2014</b> , 214, 96-100		3
476	On the Optical and Magnetic Properties of Doped-ZnO. <i>Springer Series in Materials Science</i> , <b>2014</b> , 309-320.	9	1
475	Facile fabrication of core-shell Pr <sub>6</sub> O <sub>11</sub> -ZnO modified silane coatings for anti-corrosion applications. <b>2014</b> , 288, 60-68		22
474	Self-assembled ZnO/Ag nanocomposite thin films with enhanced multiple-phonon resonant Raman scattering. <b>2014</b> , 115, 172-175		4
473	Optical signatures of photoinduced Zn vacancies in ZnO single crystal. <b>2014</b> , 115, 013101		4
472	Transmission Electron Microscopy Characterization of Nanomaterials. <b>2014</b> ,		30
471	Post-annealing effects on the structural and optical properties of vertically aligned undoped ZnO nanorods grown by radio frequency magnetron sputtering. <i>RSC Advances</i> , <b>2014</b> , 4, 5030	3.7	27
470	Challenges and opportunities of ZnO-related single crystalline heterostructures. <b>2014</b> , 1, 011303		99

- 469 Rapid synthesis and thermal catalytic performance of N-doped ZnO/Ag nanocomposites. **2014**, 40, 1489-1494 14
- 468 Synthesis, structural and morphological characteristics, magnetic and optical properties of Co doped ZnO nanoparticles. **2014**, 40, 2835-2846 51
- 467 Microstructure of ZnO-Li<sub>2</sub>CO<sub>3</sub> compound studied by positron annihilation spectroscopy. **2014**, 211, 206-212 3
- 466 Theoretical study of ultraviolet ZnO/Zn<sub>0.8</sub>Mg<sub>0.2</sub>O laser diodes on GaN or Al<sub>2</sub>O<sub>3</sub> substrates: Toward electrically pumped devices. **2014**, 211, 2105-2108
- 465 Observation of the inverse spin Hall effect in ZnO thin films: An all-electrical approach to spin injection and detection. *Applied Physics Letters*, **2014**, 104, 122402 3-4 9
- 464 Structural and Optical Properties of Nickel-Doped Zinc Oxide Thin Film on Nickel Seed Layer Deposited by RF Magnetron Sputtering Technique. **2014**, 895, 3-7 2
- 463 The impact of different ZnO growth methods on the electrical and optical properties of a n-ZnO/p-GaN:Mg/c-plane sapphire UV LED. *RSC Advances*, **2014**, 4, 13593-13600 3-7 11
- 462 Facile fabrication of highly efficient, reusable heterostructured Ag<sub>2</sub>ZnO<sub>2</sub> and its twin applications of dye degradation under natural sunlight and self-cleaning. *RSC Advances*, **2014**, 4, 4353-4362 3-7 68
- 461 First-principles calculations of structural, electronic, and thermodynamic properties of ZnO 1x S x alloys. **2014**, 23, 106108 7
- 460 Morphological evolution of ZnO nanostructures and their aspect ratio-induced enhancement in photocatalytic properties. *RSC Advances*, **2014**, 4, 29249 3-7 72
- 459 Room temperature diluted magnetism in Li, Na and K co-doped ZnO synthesized by solution combustion method. *Superlattices and Microstructures*, **2014**, 75, 621-633 2.8 22
- 458 Controlled synthesis of zinc oxide nanoflowers by succinate-assisted hydrothermal route and their morphology-dependent photocatalytic performance. *Materials Science in Semiconductor Processing*, **2014**, 27, 197-206 4-3 14
- 457 Polyethylenimine-assisted growth of high-aspect-ratio nitrogen-doped ZnO (NZO) nanorod arrays and their effect on performance of dye-sensitized solar cells. **2014**, 6, 10028-43 21
- 456 Photoluminescence Property Study on Patterned Growth of Aligned ZnO Nanowire Arrays. **2014**, 556-562, 11-14
- 455 Optical properties of Mg Zn<sub>1-x</sub> thin films deposited on silicon and sapphire substrate by rf magnetron sputtering. **2014**, 125, 5167-5170 1
- 454 Surface morphology study of recrystallization dynamics of amorphous ZnO layers prepared on different substrates. **2014**, 117, 1353-1358 1
- 453 Wet chemical synthesis of ZnO nanocrystals: dependence of growth and morphology on the solvent composition. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 3242-3250 2.1 6
- 452 p-type doping of ZnO films and growth of ternary ZnMgO and ZnCdO: application to light emitting diodes and laser diodes. **2014**, 59, 61-83 25

451	Growth temperature dependent properties of ZnO nanorod arrays on glass substrate prepared by wet chemical method. <b>2014</b> , 40, 5467-5471		12
450	A low-cost and large-scale synthesis of nano-zinc oxide from smithsonite. <b>2014</b> , 43, 138-141		4
449	Research progress in ZnO single-crystal: growth, scientific understanding, and device applications. <b>2014</b> , 59, 1235-1250		39
448	Effect of Thermal Annealing on the Characteristics of Phosphorus-Implanted ZnO Crystals. <b>2014</b> , 43, 2688-2693		5
447	Na mole concentration dependence on optical p-type behaviors of Na-doped ZnO nanowires. <b>2014</b> , 14, S103-S106		11
446	Near-surface structure of polar ZnO surfaces prepared by pulsed laser deposition. <b>2014</b> , 559, 88-91		4
445	Optical and photocatalytic properties of composite TiO <sub>2</sub> /ZnO thin films. <b>2014</b> , 230, 174-180		48
444	Photoelectron spectroscopic study on band alignment of poly(3-hexylthiophene-2,5-diyl)/polar-ZnO heterointerface. <b>2014</b> , 554, 194-198		3
443	Ultraviolet microphotoluminescence resonance and lasing action in a single ZnO micro-tetrapod. <b>2014</b> , 442, 70-73		
442	Room-temperature blue-violet laser emission from individual ultra-long ZnO microbelts. <b>2014</b> , 121, 231-233	11	
441	Photoluminescence and Two-Photon Lasing of ZnO:Sn Microdisks. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 14542-14547	3.8	9
440	Ultra-smooth and lattice relaxed ZnO thin films. <i>Superlattices and Microstructures</i> , <b>2014</b> , 73, 268-274	2.8	7
439	Effect of high temperature thermal treatment of (100) LiAlO <sub>2</sub> substrate on epitaxial growth of ZnO films by plasma-assisted molecular beam epitaxy. <b>2014</b> , 564, 156-159		3
438	Defect studies of thin ZnO films prepared by pulsed laser deposition. <b>2014</b> , 505, 012021		1
437	Fabrication of ZnO Nanostructures. <b>2014</b> , 1-42		
436	ZnO:B thin films made by two-step growth method. <b>2015</b> , 1771, 73-77		
435	Template-free and low temperature CVD synthesis of vertically aligned 1-D ZnO nanostructures for photovoltaic devices by precursor oxidation protection. <b>2015</b> , 1785, 35-40		1
434	Effect of Nitrogen implantation on the optical characteristics of Zn <sub>0.85</sub> Mg <sub>0.15</sub> O thin film at low temperature. <b>2015</b> , 1805, 1		

433	Influence of growth temperature, working gas ratio, and buffer layer in ZnO films grown on (001) Si substrates by using rf-sputtering. <b>2015</b> , 67, 676-681		2
432	Three-photon-induced blue emission with narrow bandwidth from hot flower-like ZnO nanorods. <b>2015</b> , 23, 29231-44		11
431	H-stabilized shallow acceptors in N-doped ZnO. <b>2015</b> , 92,		17
430	Thermoelectric properties of rocksalt ZnO from first-principles calculations. <b>2015</b> , 118, 165101		11
429	Thermoelectric properties of the 3C, 2H, 4H, and 6H polytypes of the wide-band-gap semiconductors SiC, GaN, and ZnO. <b>2015</b> , 5, 097204		7
428	Effect of Annealing Atmosphere on the Structural and Optical Properties of ZnO Thin Films on Si (100) Substrates Grown by Atomic Layer Deposition. <b>2015</b> , 37, 92-98		3
427	Substrate lattice relaxations, spectral distortions, and nanoparticle inclusions of ion implanted zinc oxide. <b>2015</b> , 118, 095703		3
426	Ro-vibrational cooling of molecules and prospects. <b>2015</b> , 48, 182001		17
425	P-83: Oxygen Annealing Effect on Enhancement of Green Emission from ZnO Nanorods Recrystallized Growth from Sputtered ZnO Thin Film. <b>2015</b> , 46, 1462-1464		
424	Blue and white light emission from zinc oxide nanoforests. <b>2015</b> , 6, 2463-2469		3
423	Influence of etching on the optical properties of a-plane-oriented ZnO epilayers grown by plasma-assisted molecular beam epitaxy. <b>2015</b> , 10, 584-589		
422	Synthesis of Nano-Cadmium Sulfide by Pulsed Laser Ablation in Liquid Environment. <b>2015</b> , 48, 638-645		53
421	Investigations on the structural and optical properties of band gap engineered $\text{Zn}_{1-x}(\text{Cd}, \text{Mg})_x\text{O}$ thin films deposited by sol-gel technique. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 5489-5494	2.1	8
420	Terahertz dielectric properties of (ZnS and ZnO)/Si nano-structures. <b>2015</b> , 126, 1166-1170		3
419	Transform process study of amorphous ZnO/nanocrystalline ZnO. <b>2015</b> ,		0
418	Study on the intrinsic defects in ZnO by combining first-principle and thermodynamic calculations. <b>2015</b> , 29, 1550194		2
417	Realizing semiconductor to metal transition in graphitic ZnO and MoS <sub>2</sub> nanocomposite with external electric field. <i>RSC Advances</i> , <b>2015</b> , 5, 99153-99163	3.7	17
416	Effect of gas ratio on p type phosphorus doped ZnO film. <b>2015</b> , 31, 770-774		4

415	Effect of Calcination on Properties of Cobalt Doped ZnO Nanoparticles. <b>2015</b> , 2, 5765-5770		2
414	Zinc Oxide Nanophotonics. <b>2015</b> , 4, 437-458		15
413	Comparative characterisations of structural and optical properties of zinc oxide modified by carbon nanotubes and graphene. <b>2015</b> , 12, 793		0
412	A template-free CVD route to synthesize hierarchical porous ZnO films. <i>Superlattices and Microstructures</i> , <b>2015</b> , 88, 501-507	2.8	17
411	Zn(1,3-DAP)[B4O7]: a rare chiral zeolitic framework constructed of four-connected [B4O9] clusters with a single-stranded helical channel. <b>2015</b> , 51, 753-6		29
410	Doping properties of MoS <sub>2</sub> /ZnO (0001) heterojunction ruled by interfacial micro-structure: From first principles. <b>2015</b> , 204, 67-71		17
409	Electron Transport Properties of Two-Dimensional Electron Gas in BexZn1-xO/ZnO Heterostructures. <b>2015</b> , 95, 79-89		1
408	Nanoscale interface engineering in ZnO twin nanorods for proposed phonon tunnel devices. <b>2015</b> , 17, 4277-82		12
407	Near-infrared optical constants and optical polarization properties of ZnO thin films. <b>2015</b> , 578, 139-147		5
406	Ab initio study on the stability of N-doped ZnO under high pressure. <i>RSC Advances</i> , <b>2015</b> , 5, 16774-16779	3.7	2
405	Improved photoluminescence performance of MgZnO films by alloying beryllium. <b>2015</b> , 379, 912-915		9
404	Stabilization of Rock Salt ZnO Nanocrystals by Low-Energy Surfaces and Mg Additions: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 5648-5656	3.8	24
403	Interfacial Emission Adjustment in ZnO Quantum Dots/p-GaN Heterojunction Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 2798-2803	3.8	21
402	Laser doping of Sb into ZnO nanowires in the Sb nanoparticle-dispersed liquid. <b>2015</b> , 119, 463-467		2
401	First-principle Studies of Lattice and Electronic Structure of BexZn1-xO. <b>2015</b> , 574, 012049		1
400	Ultraviolet random lasing from Mg0.12Zn0.88O:N/ZnO:Ga single-heterostructure diode. <b>2015</b> , 118, 817-821		2
399	Electro-pumped whispering gallery mode ZnO microlaser array. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 021114	3.4	19
398	Ultraviolet stimulated emission from high-temperature-annealed MgO microcrystals at room temperature. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 041116	3.4	8

397	Understanding the origin of phase segregation of nano-crystalline in a Be(x)Zn(1-x)O random alloy: a novel phase of Be(1/3)Zn(2/3)O. <b>2015</b> , 7, 9852-8		7
396	Thickness Dependence of Crystalline Structure of Al-doped ZnO Thin Films Deposited by Spray Pyrolysis. <b>2015</b> , 9, 221-229		11
395	Effect of H <sub>2</sub> O <sub>2</sub> concentration on electrochemical growth and properties of vertically oriented ZnO nanorods electrodeposited from chloride solutions. <i>Materials Science in Semiconductor Processing</i> , <b>2015</b> , 40, 585-590	4.3	20
394	Optical and Exciton Dynamical Properties of a Screw-Dislocation-Driven ZnO:Sn Microstructure. <b>2015</b> , 7, 12655-62		7
393	Band gap engineering of ZnO by doping with Mg. <b>2015</b> , 90, 085502		19
392	A valence states approach for luminescence enhancement by low dopant concentration in Eu-doped ZnO nanoparticles. <b>2015</b> , 50, 6075-6086		23
391	Label-free monitoring of the nanoparticle surface modification effects on cellular uptake, trafficking and toxicity. <b>2015</b> , 4, 169-176		9
390	Effect of growth temperature on the optical properties of ZnO nanostructures grown by simple hydrothermal method. <i>RSC Advances</i> , <b>2015</b> , 5, 60365-60372	3.7	46
389	Ethanol Vapour Sensing Property of Nitrogen Doped ZnO Fabricated by Spray Pyrolysis. <b>2015</b> , 1110, 231-234		1
388	Structural, microstructural, and optical properties of Zn <sub>1-x</sub> Mg <sub>x</sub> O thin films grown onto glass substrate by ultrasonic spray pyrolysis. <b>2015</b> , 120, 745-755		24
387	Effect of nitrogen as codoping on transition metal doped (ZnS) <sub>12</sub> clusters. <b>2015</b> , 394, 397-403		4
386	Comparative study of the effect of H <sub>2</sub> addition on ZnO films grown by different zinc and oxygen precursors. <b>2015</b> , 30, 935-945		3
385	Controlled Growth of ZnO with Different Morphologies on Zn Foils by a Simple Aqueous Solution Method. <b>2015</b> , 814, 13-18		
384	Fluorine-doped zinc oxide thin films: influence of precursor flow rate on violet luminescence. <b>2015</b> , 119, 941-948		1
383	Structural and optical properties of silica capped ZnS:Mn quantum dots. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 3939-3946	2.1	12
382	Realization of Cu-Doped p-Type ZnO Thin Films by Molecular Beam Epitaxy. <b>2015</b> , 7, 8894-9		91
381	Development of prototype apparatus for creating ZnO at low temperatures using diethyl zinc and O <sub>2</sub> plasmas. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 01AA05	1.4	2
380	Habit-modifying additives and their morphological consequences on photoluminescence and glucose sensing properties of ZnO nanostructures, grown via aqueous chemical synthesis. <b>2015</b> , 116, 21-26		21

379	Morphology effects in photoactive ZnO nanostructures: photooxidative activity of polar surfaces. <b>2015</b> , 3, 8782-8792		31
378	Evaluation of the Tauc method for optical absorption edge determination: ZnO thin films as a model system. <b>2015</b> , 252, 1700-1710		562
377	Effect of annealing temperature on optical and electrical properties of nitrogen implanted p-type ZnMgO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 9759-9765	2.1	6
376	60-fold photoluminescence enhancement in Pt nanoparticle-coated ZnO films: role of surface plasmon coupling and conversion of non-radiative recombination. <b>2015</b> , 40, 2782-5		8
375	Fabrication and Characterization of Zn <sub>1-x</sub> Mg <sub>x</sub> O Films for Photovoltaic Application. <b>2015</b> , 521-533		
374	Exciton-polariton effects in a pencil-like ZnO microwire. <b>2015</b> , 223, 24-27		1
373	Regulating the hydrothermal synthesis of ZnO nanorods to optimize the performance of spirally hierarchical structure-based glucose sensors. <i>RSC Advances</i> , <b>2015</b> , 5, 85988-85995	3-7	9
372	Enhanced internal quantum efficiency in non-polar ZnO/Zn <sub>0.81</sub> Mg <sub>0.19</sub> O multiple quantum wells by Pt surface plasmons coupling. <b>2015</b> , 40, 3639-42		10
371	Manipulation of exciton and photon lasing in a membrane-type ZnO microcavity. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 131106	3-4	8
370	Enhanced photoluminescence of nonpolar p-type ZnO film by surface plasmon resonance and electron transfer. <b>2015</b> , 40, 649-52		13
369	First-principles study on the lattice dynamics of the layered ZnO in comparison with the wurtzite structure. <b>2015</b> , 223, 19-23		3
368	The impact of time-varying phosphorus doping on ZnMgO thin films and achievement of dominant acceptor-bound-exciton peak. <b>2015</b> ,		
367	Different wavelength ranges' WGM lasing from a ZnO microrod/R6G:PMMA microcavity. <b>2015</b> , 110, 67007		8
366	Optical Band Transitions and Excitonic States in ZnO:Cu Films. <b>2015</b> , 1112, 3-6		2
365	Composition dependence of the optical properties and band structure of the zinc-blende ZnS <sub>1-x</sub> O <sub>x</sub> : a first principles study. <b>2015</b> , 95, 2627-2638		3
364	A potentially optimal interface of ZnO/Si predicted by the good-matching-site approach. <b>2015</b> , 432, 129-132		
363	Hydrothermal synthesis of hexagonal ZnO microstructures in HPMC polymer matrix and their catalytic activities. <b>2015</b> , 212, 665-670		11
362	The properties of gallium oxide thin film grown by pulsed laser deposition. <b>2015</b> , 359, 847-852		32



361	Enhanced upconversion luminescence from ZnO/Zn hybrid nanostructures induced on a Zn foil by femtosecond laser ablation. <b>2015</b> , 23, 30118-26	5
360	Random lasing of ZnO thin films grown by pulsed-laser deposition. <b>2015</b> , 336, 103-107	23
359	Effect of thickness on structural and electrical properties of Al-doped ZnO films. <b>2015</b> , 574, 162-168	22
358	A facile method for fabricating Au-nanoparticles-decorated ZnO nanorods with greatly enhanced near-band-edge emission. <b>2015</b> , 41, 2673-2679	29
357	Investigations on electrical conductivity and dielectric properties of Na doped ZnO synthesized from sol gel method. <b>2015</b> , 622, 687-694	85
356	Large degree of polarization of photoluminescence caused by anisotropic strain in nonpolar a-plane Mg <sub>x</sub> Zn <sub>1-x</sub> O layers grown by plasma-assisted molecular beam epitaxy. <b>2016</b> , 41, 4727-4730	2
355	Plasmon-enhanced Electrically Light-emitting from ZnO Nanorod Arrays/p-GaN Heterostructure Devices. <b>2016</b> , 6, 25645	35
354	Enhanced random lasing from Au-ZnO nanowire Schottky diode by using distributed Bragg reflector. <b>2016</b> ,	
353	The influence on intensity ratio of peak emission between recombination of free-excitons and deep-defect for ZnO nanostructure evolution from nanorods to nanotubes. <b>2016</b> ,	
352	Improving electrical properties of sol-gel derived zinc oxide thin films by plasma treatment. <b>2016</b> , 120, 155303	8
351	Photo-electrical and transport properties of hydrothermal ZnO. <b>2016</b> , 119, 135705	6
350	Enhanced random lasing from distributed Bragg reflector assisted Au-ZnO nanowire Schottky diode. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 192101	3-4 7
349	ZnO thin films for applications in surface acoustic wave actuators. <b>2016</b> ,	1
348	Rapid Growth of Zinc Oxide Nanotube-Nanowire Hybrid Architectures and Their Use in Breast Cancer-Related Volatile Organics Detection. <b>2016</b> , 16, 3014-21	73
347	Characterization of ZnO Thin Films Prepared by Thermal Oxidation of Zn. <b>2016</b> , 45, 3307-3313	7
346	Efficient Z-scheme charge separation in novel vertically aligned ZnO/CdSSe nanotrees. <b>2016</b> , 27, 135401	7
345	Enhanced resonant Raman scattering and optical emission of ZnO/ZnMgO multiple quantum wells. <b>2016</b> , 680, 232-236	10
344	H <sub>2</sub> - and NH <sub>3</sub> -treated ZnO nanorods sensitized with CdS for photoanode enhanced in photoelectrochemical performance. <b>2016</b> , 317, 169-176	17



343	Low-Temperature Facile Synthesis of Sb-Doped p-Type ZnO Nanodisks and Its Application in Homo Junction Light-Emitting Diode. <b>2016</b> , 8, 13018-26	44
342	Photoactive Langmuir-Blodgett, Freely Suspended and Free Standing Films of Carboxylate Ligand-Coated ZnO Nanocrystals. <b>2016</b> , 8, 13532-41	18
341	The effect of Cd substitution doping on the bandgap and absorption spectrum of ZnO. <b>2016</b> , 30, 1650215	
340	Sol-gel derived oriented multilayer ZnO thin films with memristive response. <b>2016</b> , 615, 427-436	7
339	Size and orientation effect on the mechanical properties of LiAlO <sub>2</sub> single crystal. <b>2016</b> , 677, 302-306	3
338	Distribution and self-assisted diffusion of Be and Mg impurities in ZnO. <b>2016</b> , 18, 19631-6	4
337	Investigation of nanostructured PdAg/n-ZnO thin film based Schottky junction for methane sensing. <b>2016</b> , 6, 199-210	7
336	Frequency-resolved optical gating measurement of ultrashort pulses by using single nanowire. <b>2016</b> , 6, 33181	9
335	Q-switched ytterbium-doped fiber laser with zinc oxide based saturable absorber. <b>2016</b> , 26, 115107	20
334	Effect of Electrodeposition Time on Microstructure, Wettability and Optical Properties of ZnO Nanorod Arrays. <b>2016</b> , 163, E328-E332	4
333	Microwave-assisted Facile and Ultrafast Growth of ZnO Nanostructures and Proposition of Alternative Microwave-assisted Methods to Address Growth Stoppage. <b>2016</b> , 6, 24870	45
332	Synthesis of Hierarchical ZnO/CdS <sub>Se</sub> Heterostructure Nanotrees. <b>2016</b> ,	
331	Blue emitting ZnO nanostructures grown through cellulose bio-templates. <b>2016</b> , 31, 978-85	5
330	PVP Assisted Shape-Controlled Synthesis of Self-Assembled 1D ZnO and 3D CuO Nanostructures. <b>2016</b> , 120, 408-414	15
329	Three-dimensional deposition of ZnO thin layer on nanopatterned silicon substrate. <b>2016</b> , 181, 34-37	1
328	Sensitive measurement of nonlinear absorption and optical limiting in undoped and Fe-doped ZnO quantum dots using pulsed laser. <b>2016</b> , 90, 1293-1298	2
327	First-principles study on the physical properties of a layered ZnO with hexagonal BN structure. <b>2016</b> , 233, 41-45	0
326	Revealing the origin of high-energy Raman local mode in nitrogen doped ZnO nanowires. <b>2016</b> , 10, 334-338	3

325	ZnO nanorod arrays prepared by chemical bath deposition combined with rapid thermal annealing: structural, photoluminescence and field emission characteristics. <b>2016</b> , 49, 025306	13
324	An Sb-doped p-type ZnO nanowire based random laser diode. <b>2016</b> , 27, 065204	46
323	Enhanced visible photocatalytic activity of cotton ball like nano structured Cu doped ZnO for the degradation of organic pollutant. <b>2016</b> , 134, 412-420	40
322	Influence of Bi concentration on structural and optical properties of Bi doped p-type ZnO thin films prepared by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 2360-2366	2.1 8
321	Analysis of defect luminescence in Ga-doped ZnO nanoparticles. <b>2016</b> , 18, 9586-93	25
320	High-resolution emission spectroscopy of random lasing in GaN films pumped by UV-pulsed laser. <b>2016</b> , 368, 49-53	12
319	Effect of oxygen pressure on the p-type conductivity of Ga, P co-doped ZnO thin film grown by pulsed laser deposition. <b>2016</b> , 42, 4136-4142	19
318	Fabrication and X-Ray Excited Luminescence of Ga- and In-Doped ZnO Nanorods. <b>2016</b> , 63, 471-474	8
317	Influence of oxygen partial pressure on optical and structural properties of RF sputtered ZnO thin films. <b>2016</b> ,	
316	Effect of nitrogen doping on structural, morphological, optical and electrical properties of radio frequency magnetron sputtered zinc oxide thin films. <b>2016</b> , 490, 16-20	7
315	Emission of Cu-related complexes in ZnO:Cu nanocrystals. <b>2016</b> , 75, 156-162	9
314	Transport characteristics of n-ZnO/p-Si heterojunction as determined from temperature dependent current-voltage measurements. <b>2016</b> , 480, 68-71	7
313	Investigation of factors affecting the synthesis of nano-cadmium sulfide by pulsed laser ablation in liquid environment. <b>2016</b> , 153, 315-20	56
312	Solution-phase synthesis of transition metal oxide nanocrystals: Morphologies, formulae, and mechanisms. <b>2017</b> , 244, 199-266	58
311	Visible luminescence from highly textured Tb <sup>3+</sup> doped RF sputtered zinc oxide films. <b>2017</b> , 184, 273-286	13
310	Photoelectron spectroscopic study on monolayer pentacene thin-film/polar ZnO single-crystal hybrid interface. <b>2017</b> , 10, 025702	3
309	Nanopore diameter-dependent properties of thin three-dimensional ZnO layers deposited onto nanoporous silicon substrates. <b>2017</b> , 43, 5173-5181	3
308	Electron hopping transport in 2D zinc oxide nanoflakes. <b>2017</b> , 4, 025028	10

307	Functional properties and enhanced visible light photocatalytic performance of V3O4 nanostructures decorated ZnO nanorods. <b>2017</b> , 418, 171-178		15
306	RGB emission of Mn <sup>2+</sup> doped zinc phosphate glass. <b>2017</b> , 466-467, 58-63		13
305	Influence of Mn dopant concentration on film thickness, structural, morphological, compositional and optical properties of zinc oxide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 11576-11583	2.1	4
304	Crystallographic polarity effect of ZnO on thin film growth of pentacene. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 04CJ03	1.4	2
303	First-principles study of (Ga, Al)-codoped ZnO for optoelectronic device application. <b>2017</b> , 4, 075902		4
302	In-vitro efficacy of different morphology zinc oxide nanopowders on <i>Streptococcus sobrinus</i> and <i>Streptococcus mutans</i> . <b>2017</b> , 78, 868-877		10
301	Suppression of near band edge emission in specially engineered ZnO twin nanorods. <b>2017</b> , 19, 14012-14019		6
300	Effect of a ZnO buffer layer on structural and electrical properties of ZnO:Al,P thin films grown by RF magnetron sputtering. <b>2017</b> , 43, 11163-11169		11
299	Electrochemical growth of controlled tip shapes of ZnO nanorod arrays on silicon substrate and enhanced photoluminescence emission from nanopyramid arrays compared with flat-head nanorods. <i>Optical Materials</i> , <b>2017</b> , 72, 276-282	3.3	5
298	First-principles calculations of the thermodynamics of wurtzite and zincblende ZnO <sub>1-x</sub> S <sub>x</sub> alloys. <b>2017</b> , 520, 1-6		5
297	Effect of Calcination Temperature on Non-linear Absorption Co-efficient of Nano Sized Titanium Dioxide (TiO <sub>2</sub> ) Synthesised by Sol-Gel Method. <b>2017</b> , 4, 4372-4379		13
296	Influence of Ba doping concentration on the physical properties and gas sensing performance of ZnO nanocrystalline films: Automated nebulizer spray pyrolysis (ANSP) method. <b>2017</b> , 141, 83-89		10
295	Fast and accurate approximate quasiparticle band structure calculations of ZnO, CdO, and MgO polymorphs. <b>2017</b> , 95,		18
294	Fabrication of High Sensitive UV Photodetector Based on n-ZnO Nanowire/n-Porous-Si Heterojunction. <b>2017</b> , 12, 1750044		6
293	Structural and magnetic properties of Co-doped ZnO thin films grown by ultrasonic spray pyrolysis method. <i>Superlattices and Microstructures</i> , <b>2017</b> , 104, 553-569	2.8	24
292	Origin of polychromatic emission and defect distribution within annealed ZnO nanoparticles. <b>2017</b> , 88, 156-165		9
291	Study on Co-doped ZnO comparatively by first-principles calculations and relevant experiments. <b>2017</b> , 250, 123-128		14
290	Tunable optical properties in atomic layer deposition grown ZnO thin films. <b>2017</b> , 35, 01B108		22

289	Purely excitonic lasing in ZnO microcrystals: Temperature-induced transition between exciton-exciton and exciton-electron scattering. <b>2017</b> , 96,			19
288	Extinction of the zero-phonon line and the first-order phonon sideband in excitonic luminescence of ZnO at room temperature: the self-absorption effect. <b>2017</b> , 62, 1525-1529			10
287	Fabrication of ZnO homojunction-based color-switchable bidirectional LEDs by using a hydrothermal growth method. <b>2017</b> , 5, 9479-9487			13
286	Optical study on intrinsic exciton states in high-quality CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> single crystals. <b>2017</b> , 96,			26
285	Synthesis of Cu and Ce co-doped ZnO nanoparticles: crystallographic, optical, molecular, morphological and magnetic studies. <b>2017</b> , 35, 427-434			2
284	Enhancement of the piezoelectric coefficient in hexagonal Mg <sub>x</sub> Zn <sub>1-x</sub> O films at lower Mg compositions. <b>2017</b> , 728, 1248-1253			19
283	Analytical Model for 2DEG Density in Graded MgZnO/ZnO Heterostructures With Cap Layer. <b>2017</b> , 64, 3661-3667			13
282	The solid state physics programme at ISOLDE: recent developments and perspectives. <b>2017</b> , 44, 104001			22
281	Influence of the sol gel synthesis parameters on the photoluminescence properties of ZnO nanoparticles. <i>Materials Science in Semiconductor Processing</i> , <b>2017</b> , 71, 181-187	4-3		45
280	Structural, optical and electrical evolution of Al and Ga co-doped ZnO/SiO <sub>2</sub> /glass thin film: role of laser power density. <i>RSC Advances</i> , <b>2017</b> , 7, 35858-35868	3-7		20
279	Wet chemical etching of ZnO films using NH <sub>4</sub> <sup>+</sup> -based (NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> and NH <sub>4</sub> OH alkaline solution. <b>2017</b> , 52, 13054-13063			2
278	A novel ultra-thin-walled ZnO microtube cavity supporting multiple optical modes for bluish-violet photoluminescence, low-threshold ultraviolet lasing and microfluidic photodegradation. <b>2017</b> , 9, e442-e442			23
277	The p-type ZnO thin films obtained by a reversed substitution doping method of thermal oxidation of Zn <sub>3</sub> N <sub>2</sub> precursors. <b>2017</b> , 26, 117101			4
276	Low temperature produced calcium-doped zinc oxide thick film via screen printing technique as thermal interface material in LED application. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 13371-13378	2.1		1
275	Electrically driven deep ultraviolet MgZnO lasers at room temperature. <b>2017</b> , 7, 2677			17
274	Assessment of Sterilization and/or cross linking effects on orthopedic biomaterial using optical diffuse reflectance spectroscopy. <b>2017</b> , 144, 387-392			7
273	Effect of substrates and thickness on optical properties in atomic layer deposition grown ZnO thin films. <b>2017</b> , 421, 341-348			20
272	Plasmon-exciton interaction and screening of exciton in ZnO-based thin film on bulk Pt as analyzed by spectroscopic ellipsometry. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 01AD06	1.4		10

271	Density functional theory model of amorphous zinc oxide (a-ZnO) and a-X <sub>0.375</sub> Zn <sub>0.625</sub> O (X= Al, Ga and In). <b>2017</b> , 455, 98-101	8
270	Zn <sub>1-x</sub> Cd <sub>x</sub> O Microtubes: Synthesis and Optical Properties Using Direct Microwave Irradiation. <b>2017</b> , 36, 921-926	1
269	Structural, optical and dielectric study of Cu doped ZnO nanoparticles synthesised by high energy ball milling. <b>2017</b> , 7, 140	1
268	Great photoluminescence enhancement in Al-sputtered ZnMgO films. <b>2017</b> , 42, 5129-5132	3
267	Modification of morphological and optical properties of ZnO thin film. <b>2017</b> , 3, 103-110	7
266	Growth Method-Dependent and Defect Density-Oriented Structural, Optical, Conductive, and Physical Properties of Solution-Grown ZnO Nanostructures. <i>Nanomaterials</i> , <b>2017</b> , 7, 5-4	10
265	Optical and Structural Properties of Solvent Free Synthesized Starch/Chitosan-ZnO Nanocomposites. <b>2017</b> , 2017, 1-8	12
264	Effect of Fe Doping on Structural, Optical and Electrical Properties of ZnO Thin Films. <b>2017</b> ,	
263	Structure and Raman scattering of Mg-doped ZnO nanoparticles prepared by sol-gel method. <b>2018</b> , 37, 881-885	21
262	Organic/Inorganic Metal Halide Perovskite Optoelectronic Devices beyond Solar Cells. <b>2018</b> , 5, 1700780	100
261	Large enhancement of UV luminescence emission of ZnO nanoparticles by coupling excitons with Ag surface plasmons. <b>2018</b> , 123, 154302	11
260	Effects of Na Doping on Structural, Optical, and Electronic Properties of ZnO Thin Films Fabricated by Sol-Gel Technique. <b>2018</b> , 47, 3847-3854	6
259	Effect of Fe doping on optical and structural properties of ZnO thin film prepared by spray pyrolysis method. <b>2018</b> , 5, 9173-9176	1
258	Reinventing a p-type doping process for stable ZnO light emitting devices. <b>2018</b> , 51, 225104	5
257	Backscattering analysis of short period ZnO/MgO superlattices. <b>2018</b> , 355, 45-49	10
256	Facile synthesis and characterization of Sc <sub>2</sub> O <sub>3</sub> nanoparticles for electrocatalytic oxidation of ethanol: Cyclic voltammetry and chronoamperometry studies. <b>2018</b> , 43, 4961-4966	2
255	Ultrafast carrier dynamics and optical pumping of lasing from Ar-plasma treated ZnO nanoribbons. <b>2018</b> , 29, 095701	7
254	Influence of substrate temperature on the properties of spray deposited nanofibrous zinc oxide thin films. <b>2018</b> , 124, 1	10

253	Electrically driven plasmon-exciton coupled random lasing in ZnO metal-semiconductor-metal devices. <b>2018</b> , 439, 525-532		7
252	Oxygen vacancies induced room temperature ferromagnetism in Li, Na and K co-doped ZnO synthesized by solution combustion technique. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 5124-5133	2.1	7
251	Thermoluminescence properties of Al doped ZnO nanoparticles. <b>2018</b> , 44, 13929-13933		5
250	Band-Gap Engineering in ZnO Thin Films: A Combined Experimental and Theoretical Study. <b>2018</b> , 9,		17
249	Temperature dependence of bulk luminescence from ZnO. <b>2018</b> , 33, 654-659		9
248	The Effect of Sn/Si Dopant on Optical and Structural Properties of Nanostructured Zinc Oxide Thin Films. <b>2018</b> , 10, 503-508		2
247	Size effects on electrical properties of sol-gel grown chromium doped zinc oxide nanoparticles. <b>2018</b> , 34, 488-495		22
246	Influence of a NiO intermediate layer on the properties of ZnO grown on Si by chemical bath deposition. <b>2018</b> , 535, 119-123		3
245	Investigation of the growth parameters of hydrothermal ZnO nanowires for scale up applications. <b>2018</b> , 22, 538-545		25
244	Strong Visible Light Photocatalytic Activity of Magnetically Recyclable Sol-Gel-Synthesized ZnFe <sub>2</sub> O <sub>4</sub> for Rhodamine B Degradation. <b>2018</b> , 47, 536-541		39
243	Defect induced room temperature ferromagnetism in single crystal, poly-crystal, and nanorod ZnO: A comparative study. <b>2018</b> , 123, 161507		26
242	First-principles study of adsorption mechanism of NH <sub>3</sub> on different ZnO surfaces on organics photocatalytic degradation purpose. <b>2018</b> , 141, 133-140		8
241	Synthesis and Optical Properties of Pb Doped ZnO Nanoparticles. <b>2018</b> , 449, 346-357		73
240	Study on electrical structure and magneto-optical properties of W-doped ZnO. <b>2018</b> , 451, 697-703		12
239	Low-threshold ultraviolet stimulated emissions from large-sized single crystalline ZnO transferable membranes. <b>2018</b> , 26, 31965-31975		3
238	Seed layer morphology influencing on ZnO nanorod growth by hydrothermal synthesis. <b>2018</b> , 43, 349-353		
237	Low temperature synthesis and optical and electrical characterization of ZnO thin films. <b>2018</b> , 5, 21285-21291		
236	Plasmonic enhancement of random lasing from dye-doped polymer with dispersed Au nanoparticles. <b>2018</b> , 124, 1		3

235	Growth Condition-Oriented Defect Engineering for Changes in Au/ZnO Contact Behavior from Schottky to Ohmic and Vice Versa. <i>Nanomaterials</i> , <b>2018</b> , 8,	5-4	2
234	Ultrafast electron hole plasma dynamics in chemically pristine and Ag-doped ZnO nanorods. <b>2018</b> , 124, 243103		2
233	Preparation and Optical Properties of ZnO Nanocrystals by Chemical Bath Deposition. <b>2018</b> , 281, 865-871		
232	Synthesis of ZnO particles with multi-layer and biomorphic porous microstructures and ZnO/rGO composites and their applications for photocatalysis. <b>2018</b> , 711, 100-106		45
231	Optical properties of ZnO nanorod films prepared by CBD method. <b>2018</b> , 712, 155-159		17
230	Effect of size and shape on the excitonic stimulated emission process in ZnO microstructures. <b>2018</b> , 124, 063103		2
229	Extraction of ZnO thin film parameters for modeling a ZnO/Si solar cell. <b>2018</b> , 164, 871-880		22
228	Pronounced effects of argon plasma etching on photoluminescence and Schottky contact properties of Pt/ZnO nanorods. <i>Optical Materials</i> , <b>2018</b> , 84, 404-408	3-3	2
227	A few-picosecond and high-peak-power passively mode-locked erbium-doped fibre laser based on zinc oxide polyvinyl alcohol film saturable absorber. <b>2018</b> , 28, 075105		16
226	Transparent, crystalline ZnO thin films: Effect of spin coating parameters on the structural and optical properties. <b>2018</b> ,		1
225	Photoluminescence identification of surface contaminants on zinc oxide from their phase transitions. <b>2018</b> , 51, 274-278		4
224	Understanding W Doping in Wurtzite ZnO. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 19082-19089	3.8	3
223	Single-mode ultraviolet whispering gallery mode lasing from a floating GaN microdisk. <b>2018</b> , 43, 647-650		21
222	Photoluminescence enhancement in non-polar ZnO films through metallodielectric mediated Al surface plasmons. <b>2018</b> , 43, 2288-2291		2
221	Zno Micro/Nanostructures Grown on Sapphire Substrates Using Low-Temperature Vapor-Trapped Thermal Chemical Vapor Deposition: Structural and Optical Properties. <b>2017</b> , 11,		2
220	Ultraviolet Detectors Based on Wide Bandgap Semiconductor Nanowire: A Review. <b>2018</b> , 18,		114
219	Al decorated ZnO thin-film photoanode for SPR-enhanced photoelectrochemical water splitting. <b>2018</b> , 124, 1		3
218	Zinc Oxide Materials and Devices Grown by Molecular Beam Epitaxy. <b>2018</b> , 343-375		7

217	Investigation on field-emission properties of graphdiyne/ZnO composite. <b>2018</b> , 32, 1850285		2
216	Structural instability and dynamic emission fluctuations in zinc oxide random lasers. <b>2018</b> , 124, 063104		1
215	Wurtzite Mg <sub>0.3</sub> Zn <sub>0.7</sub> O film and UV detector. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 13052-13057	2.1	4
214	Coherent dynamics of localized excitons and trions in ZnO/(Zn,Mg)O quantum wells studied by photon echoes. <b>2018</b> , 97,		6
213	Transition metal (Mn) and rare earth (Nd) di-doped novel ZnO nanoparticles: a facile sol-gel synthesis and characterization. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 13077-13086		8
212	Effect of Fe doping on structural and optical properties of ZnO films and nanorods. <b>2019</b> , 770, 854-863		48
211	Perovskite-based lasers: An introductory survey. <b>2019</b> , 41-74		0
210	Progress on Transition Metal-Doped ZnO Nanoparticles and Its Application. <b>2019</b> , 58, 17130-17163		63
209	Creation of Acceptor Centers in ZnO Single Crystals by Annealing in Sb Vapor. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 20769-20773	3.8	1
208	Enhanced UV light induced photocatalytic degradation of Methyl Orange by Fe doped spray pyrolysis deposited ZnO thin films. <b>2019</b> , 494, 116-123		14
207	Impacts of phase transformation on the thermoelectric properties of ZnO nanowires. <b>2019</b> , 383, 3118-3122		3
206	Zinc-oxide nanoparticle-based saturable absorber deposited by simple evaporation technique for Q-switched fiber laser. <b>2019</b> , 28, 084207		2
205	Epitaxial ZnO on p-Si and its MSM Structure Photoconductive Ultraviolet Detector. <b>2019</b> , 569, 022019		1
204	Postannealed Structural Relaxation and Phase Evolution of Quaternary Alloy BeMgZnO. <b>2019</b> , 1, 2061-2068		3
203	DFT+U study of small ZnO nanoclusters. <b>2019</b> ,		
202	The Role of a Liquid Al Sublayer As a Catalyst for the Directional Growth of ZnO Nanocrystals. <b>2019</b> , 45, 643-646		2
201	Critical point analysis of dielectric constant in ZnO thin films on different electronic environments. <b>2019</b> , 1204, 012118		
200	Two-photon absorption induced nanowelding for assembling ZnO nanowires with enhanced photoelectrical properties. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 103101	3-4	7



199	Spatially-Resolved Photoluminescence Study of Temperature Dependence of Exciton Inelastic Scattering Processes in a ZnO Thin Film. <b>2019</b> , 88, 083706		0
198	Deep Ultraviolet Luminescence Due to Extreme Confinement in Monolayer GaN/Al(Ga)N Nanowire and Planar Heterostructures. <b>2019</b> , 19, 7852-7858		20
197	Synthesis and characterization of ZnO nano-particles for solar cell application by the cost effective co-precipitation method without any surfactants. <b>2019</b> ,		2
196	Photoluminescence, conductivity and structural study of terbium doped ZnO films grown on different substrates. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 94, 51-56	4-3	9
195	Study of point defect on the stability and magneto-optical properties of ZnO:Cu by first-principles. <b>2019</b> , 117, 1858-1870		4
194	High internal quantum efficiency ZnO/ZnMgO multiple quantum wells prepared on GaN/sapphire templates for ultraviolet light emitting diodes. <b>2019</b> , 7, 6534-6538		9
193	Synthesis and structural, electrical, optical properties of Lu <sup>3+</sup> -doped ZnO nanorods. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 101, 230-237	4-3	7
192	Temperature and excitation dependent ultraviolet lasing in vertically oriented ZnO nanowires. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 8814-8819	2-1	2
191	Photocatalytic decomposition of rhodamine B by newly designed one-dimension ZnO using chemical method. <b>2019</b> , 1, 1		1
190	Structural and optical characterization of Sm-doped ZnO nanoparticles. <b>2019</b> , 42, 1		11
189	Effect of annealing on the photocatalytic activity of chemically prepared TiO <sub>2</sub> thin films under visible light. <b>2019</b> , 193, 163006		5
188	Passivation Mechanism of Nitrogen in ZnO under Different Oxygen Ambience. <b>2019</b> , 9, 204		3
187	Magnetron Sputtering for ZnO:Ga Scintillation Film Production and Its Application Research Status in Nuclear Detection. <b>2019</b> , 9, 263		13
186	The enhancement of near-band-edge emission by hydrogen plasma treatment for Ga-doped ZnO, ZnO and ZnMgO films. <i>Optical Materials</i> , <b>2019</b> , 92, 11-15	3-3	9
185	Study of Molarity Concentration Variation Over Optical, Structural and Gas Sensing Response for ZnO Thin Film Based NO <sub>x</sub> Gas Sensor. <b>2019</b> , 20, 309-314		6
184	Theoretical insight into magnetic and thermoelectric properties of Au doped ZnO compounds using density functional theory. <b>2019</b> , 562, 67-74		19
183	Room-temperature BTEX sensing characterization of nanostructured ZnO thin films. <b>2019</b> , 7, 141-146		9
182	Study on the effect of copper ion doping in zinc oxide nanomaterials for photocatalytic applications. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 230, 162-171	4-4	15

181	Structural characterization of magnetron sputtered ZnO thin films on Si(100) using RBS, scanning and high resolution transmission electron microscopy methods. <b>2019</b> , 15, 239-243	7
180	Structural, optical and electrical properties of the fabricated Schottky diodes based on ZnO, Ce and Sm doped ZnO films prepared via wet chemical technique. <b>2019</b> , 115, 12-18	18
179	Sb-doped p-ZnO quantum dots: Templates for ZnO nanorods homojunction white light-emitting diodes by low-temperature solution process. <b>2019</b> , 480, 122-130	19
178	Enhancing Acceptor-Based Optical Behavior in Phosphorus-Doped ZnO Thin Films Using Boron as Compensating Species. <b>2019</b> , 1, 325-339	5
177	Electronic Defects in Amorphous Oxide Semiconductors: A Review. <b>2019</b> , 216, 1800372	103
176	First principle studies of ZnO <sub>1-x</sub> S <sub>x</sub> alloys under high pressure. <b>2019</b> , 788, 905-911	5
175	Investigation of electronic and optical properties of wurtzite MgZnO using GGA + U formalism. <b>2019</b> , 99, 424-433	
174	Silver doped sputtered ZnO thin films. <b>2019</b> ,	
173	Structural and optical characterizations of (Cu, Ce) iso-co-doped ZnO aerogel structures grown in supercritical ethanol. <b>2019</b> , 26, 755-763	1
172	Surface plasmon-enhanced UV-emission from ZnO by aluminum bowtie nanoantenna arrays. <b>2019</b> , 772, 460-464	8
171	X-ray diffraction lineshape analysis of pulsed laser deposited ZnO nano-structured thin films. <b>2019</b> , 473, 298-302	8
170	Towards understanding the enhancement of antibacterial activity in manganese doped ZnO nanoparticles. <b>2019</b> , 471, 960-972	20
169	Vacancies inducing electronic and optical properties in 2D ZnO:Be/Mg. <b>2019</b> , 555, 47-52	3
168	Nanohybrid Photocatalysts for Recalcitrant Organic Pollutant Degradation. <b>2019</b> , 155-200	2
167	Structural study of MgO and Mg-doped ZnO thin films grown by atomic layer deposition. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 93, 6-11	4-3 9
166	Structural and optical properties of porous ZnO nanorods synthesized by a simple two-step method. <i>Superlattices and Microstructures</i> , <b>2019</b> , 128, 30-36	2.8 2
165	Enhancing ultraviolet photoresponsivity of an oversized Sn-doped ZnO microwire based photodetector. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 518-524	2.1 1
164	First-principle studies of optical properties of Be Zn <sub>1-x</sub> O ternary mixed crystal. <b>2019</b> , 178, 691-697	6

163	Tuning the optical properties of ZnO: Cd by doping La and Y. <i>Superlattices and Microstructures</i> , <b>2019</b> , 128, 127-135	2.8	3
162	Role of hexamine in ZnO morphologies at different growth temperature with potential application in dye sensitized solar cell. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 92, 108-115	4.3	25
161	Structural, optical, and electrical properties of Zn Al O nanoparticles near the Al solubility limit. <b>2020</b> , 814, 152015		5
160	A review on piezo-/ferro-electric properties of morphologically diverse ZnO nanostructures. <b>2020</b> , 816, 152491		36
159	Synthesis, structural and optical properties of Ni doped ZnO nanoparticle A chemical approach. <b>2020</b> , 26, 148-153		4
158	Study of the electronic structure and absorption spectrum of Co and H doped ZnO by first-principles. <b>2020</b> , 528, 110460		2
157	Synthesis of Si NPs from River Sand Using the Mechanochemical Process and its Applications in Metal Oxide Heterojunction Solar Cells. <b>2020</b> , 12, 1723-1733		5
156	Transformations in the photoluminescent, electrical and structural properties of Tb <sup>3+</sup> and Eu <sup>3+</sup> co-doped ZnO films under high-temperature annealing. <b>2020</b> , 217, 116739		5
155	Effect of Al concentration on optically pumped random lasing in Zn <sub>1-x</sub> Al <sub>x</sub> O (0 ≤ x ≤ 0.10) thin films fabricated via pulsed laser deposition technique. <b>2020</b> , 124, 105978		2
154	Optical, structural and electrical properties of ZnO thin films doped with Mn. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 7389-7397	2.1	13
153	Dual acceptor (N, Cu) doping effects on the electronic and optical properties of ZnO. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 242, 122463	4.4	9
152	Effect of Mn doping on defect-related photoluminescence and nanostructure of dense 3-D nano-root network of ZnO. <b>2020</b> , 46, 10135-10141		10
151	Short-cavity random distributed feedback fiber laser with ultra-low threshold. <b>2020</b> , 13, 012008		1
150	First-principles investigations of structural parameters, electronic structures and optical spectra of 5B- and BeO-type of ZnO <sub>1-S</sub> alloys. <b>2020</b> , 262, 114697		8
149	Enhanced UV emission of solution processed highly transparent Alq <sub>3</sub> /ZnO hybrid thin films. <b>2020</b> , 710, 138265		5
148	STRUCTURAL AND OPTICAL PROPERTIES OF UNDOPED AND SILVER, LITHIUM AND COBALT-DOPED ZnO THIN FILMS. <b>2020</b> , 27, 1950138		2
147	Effects of annealing temperature, thickness and substrates on optical properties of m-plane ZnO films studied by photoluminescence and temperature dependent ellipsometry. <b>2020</b> , 848, 156631		6
146	Role of oxygen vacancies on the green photoluminescence of microwave-assisted grown ZnO nanorods. <b>2020</b> , 849, 156684		18

145	Experimental Evidence on Stability of N Substitution for O in ZnO Lattice. <b>2020</b> , 11, 8901-8907		8
144	Columnar structure growth of Mn-doped ZnO (MZO) thin films by radio frequency co-sputtering and studies on films properties. <b>2020</b> , 1-7		5
143	Visible Light Response in Defect Engineered Wrinkle Network Nanostructured ZnO. <b>2020</b> ,		
142	Structural, Optical and Sensing Properties of ZnO:Cu Films Prepared by Pulsed Laser Deposition. <b>2020</b> , 1591, 012088		
141	Redistribution of Tb and Eu ions in ZnO films grown on different substrates under thermal annealing and its impact on Tb-Eu energy transfer. <b>2020</b> , 528, 146913		5
140	Effect of multiple-step annealing on the structural, optical and electrical properties of ZnO:In-N films. <b>2020</b> , 527, 146933		1
139	A brief review of formation energies calculation of surfaces and edges in semiconductors. <b>2020</b> , 41, 061101		4
138	Sol-gel precursor inks and films. <b>2020</b> , 41-61		0
137	Morphological and Optical Characterization of Sol-Gel Synthesized Ni-Doped ZnO Nanoparticles. <b>2020</b> , 205, 1-13		23
136	Study of structural and optical properties of MBE grown nonpolar (10-10) ZnO/ZnMgO photonic structures. <i>Optical Materials</i> , <b>2020</b> , 100, 109709	3-3	6
135	Excitonic emission in heavily Ga-doped zinc oxide films grown on GaN. <b>2020</b> , 223, 117265		4
134	Scalable manufacture of vertical p-GaN/n-SnO <sub>2</sub> heterostructure for self-powered ultraviolet photodetector, solar cell and dual-color light emitting diode. <b>2021</b> , 3, 598-610		3
133	First-principles investigations of electronic structures and optical spectra of wurtzite and sphalerite types of ZnO <sub>1-x</sub> S <sub>x</sub> (x=0, 0.25, 0.50, 0.75 & 1) alloys. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 121, 105326	4-3	12
132	Structural and optical properties of RF sputtered ZnO thin films: Annealing effect. <b>2021</b> , 605, 412421		6
131	Effect of oxygen pressure and post-annealing on the properties of reactively sputtered zinc oxide thin films. <b>2021</b> , 39, 1163-1169		0
130	Status and Outlook of Metal-Inorganic Semiconductor-Metal Photodetectors. <b>2021</b> , 15, 2000401		23
129	Dielectric and magnetic properties of Allium cepa and Raphanus sativus extracts biogenic ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 590-603	2-1	0
128	Homoepitaxial ZnO/ZnMgO Laser Structures and Their Properties. <b>2021</b> , 218, 2000344		0

127	Photocatalytic treatment of pollutants in aqueous media. <b>2021</b> , 32, 725-759	1
126	Surface and interface effects: properties of nanostructured ZnO. <b>2021</b> , 253-287	
125	Synthesis and modification of ZnO thin films by energetic ion beams. <b>2021</b> , 176, 145-166	1
124	Effect of magnesium content and growth temperature on structural and optical properties of USCVD-grown MgZnO films. <b>2021</b> , 127, 1	1
123	Synthesis and Applications of ZnO/Polymer Nanohybrids. <b>2021</b> , 3, 599-621	16
122	Epitaxial growth of highly textured ZnO thin films on Si using an AlN buffer layer by atomic layer deposition. <b>2021</b> , 39, 032401	2
121	Phosphorus doping of ZnO using spin-on dopant process: A better choice than costly and destructive ion-implantation technique. <b>2021</b> , 233, 117921	3
120	Semiconducting ZnO&WS <sub>2</sub> heterojunction composite films: Fabrication, characterization and ultrafast nonlinear properties. <b>2021</b> , 863, 158664	2
119	Arrangement of polyhedral units for [0001]-symmetrical tilt grain boundaries in zinc oxide. <b>2021</b> , 212, 116864	2
118	Excellent improvement in photocatalytic nature of ZnO nanoparticles via Fe doping content. <b>2021</b> , 130, 108668	3
117	A review on defect related emissions in undoped ZnO nanostructures. <b>2021</b> ,	1
116	Switch type PANI/ZnO core-shell microwire heterojunction for UV photodetection. <b>2021</b> , 105, 259-259	60
115	Two-dimensional suprawavelength periodic surface structuring of a ZnO single crystal with a UV femtosecond laser. <b>2021</b> , 29, 30772-30782	2
114	Gamma-ray induced thermoluminescence emission of green synthesized zinc oxide nanophosphors. <b>2021</b> , 98, 100153	
113	Anisotropic optical gains in a-plane ZnO/Zn <sub>0.8</sub> Mg <sub>0.2</sub> O multiple quantum wells grown via pulsed-laser deposition. <b>2021</b> , 565, 150401	1
112	Temperature dependence of ZnO crystals from ion-beam-induced luminescence. <b>2022</b> , 241, 118465	
111	Organic-inorganic hybrid lead halide perovskites for optoelectronic and electronic applications. <b>2021</b> , 267-289	2
110	Controlled Growth and Optical Properties of Zinc Oxide Nanostructures. <b>2003</b> , 139-156	1

109	Investigation on Hybrid Green Light-Emitting Diode. <b>2014</b> , 281-283		1
108	ZnO Nanostructures: Optical Resonators and Lasing. <b>2009</b> , 39-56		2
107	ZnO and GaN Nanostructures and their Applications. <b>2009</b> , 459-505		1
106	Structural Defects in GaN and ZnO. <b>2009</b> , 261-310		1
105	Photoluminescence Processes in ZnO Thin Films and Quantum Structures. <i>Springer Series in Materials Science</i> , <b>2014</b> , 49-89	0.9	1
104	Electron and phonon transport anisotropy of ZnO at and above room temperature. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 043903	3.4	7
103	Influence of Oxygen in Sputtering and Annealing Processes on Properties of ZnO:Ag Films Deposited by rf Sputtering. <b>2011</b> , 28, 036105		2
102	Oxygen vacancy in ZnO- w phase: pseudohybrid Hubbard density functional study. <b>2020</b> , 32, 315503		1
101	Stability of wurtzite semipolar surfaces: Algorithms and practices. <b>2018</b> , 2,		7
100	Interface Engineering in Heteroepitaxy. <b>2002</b> , 102, 541-554		1
99	Realization of p-Type Conductivity in ZnO via Potassium Doping. <b>2016</b> , 129, 1155-1158		7
98	Effect of Nitridation and Pre-Growth Annealing of the Sapphire Substrate on the Quality of Zinc Oxide Thin Films Grown by RF-Magnetron Sputtering. <b>2017</b> , 132, 1325-1328		2
97	Formation and Exciton Emission of an Epitaxial ZnO Thin Film by Oxidation of ZnS Film on Si Substrate.. <b>2002</b> , 23, 492-496		1
96	Synthesis and Characterization of Te Doped ZnO Nanosheets For Photocatalytic Application. <b>2015</b> , 15-20		6
95	Effect of Oxygen Pressure on the Growth Behavior and Optical Properties of ZnO Films. <b>2008</b> , 23, 1096-1100		1
94	Effects of Substrate on the Structure, Morphology and Optical Properties of Vertically Aligned ZnO Nanorod Arrays Grown by Low-temperature CBD Method. <b>2010</b> , 25, 1115-1120		7
93	Enhancement of anticorrosion properties of stainless steel 304L using nanostructured ZnO thin films. <b>2018</b> , 5, 932-944		6
92	Recent Progress in Synthesis of Plate-like ZnO and its Applications: A Review. <b>2017</b> , 54, 167-183		20

91	Photoluminescence and Structural Properties of ZnO Nanorods Growth by Assisted-Hydrothermal Method. <b>2013</b> , 03, 152-157	16
90	Monodisperse ZnO Solid Spheres by an Assisted Structure Directing Agent-Hydrothermal Method. <b>2015</b> , 05, 332-338	1
89	Synthesis, Structural Characterization, and Catalytic Activity of Flower Like ZnO Nanostructures. <b>2014</b> , 35, 1091-1097	3
88	Single Nanoparticle Photoluminescence Studies of Visible Light-Sensitive TiO <sub>2</sub> and ZnO Nanostructures. <b>2013</b> , 2, 9-17	1
87	The Effect of Precursor Concentration on ZnO Nanorod Grown by Low-temperature Aqueous Solution Method. <b>2013</b> , 20, 33-37	1
86	Electronic structures and ferroelectric properties of Ba-doped ZnO. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2018</b> , 67, 107701	0.6 2
85	Effect of Oxygen Partial Pressure on the Properties ZnO Film Grown on Macroporous Si by HF Magnetron Sputtering. <b>2021</b> ,	
84	Fabrication and Near-UV Emission of p-SrCu <sub>2</sub> O <sub>2</sub> /n-ZnO Heterojunction LED.. <b>2001</b> , 22, 419-424	
83	Chemical Vapor Deposition of Nanometric Materials by Optical Near-Fields: Toward Nano-Photonic Integration. <b>2001</b> , 219-234	
82	Growth of widegap II-VI quantum structures and their optical properties. <b>2001</b> , 106-137	
81	Near-Field Optical Microscopy and Application to Nanophotonics. <b>2003</b> , 339-356	
80	Oxide Nanowires and Nanolasers. <b>2003</b> , 21-44	
79	Wide Band-Gap Semiconductor Nanowires Synthesized by Vapor Phase Growth. <b>2003</b> , 343-391	
78	Growth of Heteroepitaxial ZnO Thin Film by Off-axis RF Magnetron Sputtering. <b>2003</b> , 40, 262-267	0
77	Studies on New Light Emitting Materials Using Environmentally Friendly Semiconductor Nanocrystals. <b>2004</b> , 12, 36-41	
76	Laser synthesis of aligned ZnO nano crystals for large area UV emitter. <b>2005</b> ,	
75	Size Dependent Absorption Spectrum of ZnO Nanocrystals. <b>2005</b> , 15, 431-434	
74	Effect of Ga Addition on the Electrical and Structural Properties of (Zn,Mg)O Transparent Electrode Films. <b>2005</b> , 15, 491-495	

73	Nanobelts and Nanowires of Functional Oxides. <b>2005</b> ,		
72	Strategies of Nanoscale Semiconductor Lasers. <b>2007</b> , 105-169		
71	Epitaxial Growth and Transport Properties of High-Mobility ZnO-Based Heterostructures. <b>2008</b> , 77-85		
70	GaN and ZnO Light Emitters. <b>2009</b> , 415-457		
69	Optical Properties of GaN and ZnO. <b>2009</b> , 311-354		1
68	Structural and Optical Properties of Sol-gel Derived Mg <sub>x</sub> Zn <sub>1-x</sub> Thin Films. <b>2009</b> , 19, 125-131		
67	BLUE LIGHT-EMITTING DIODE BASED ON ZnO NANOWIRE/POLYACRYLAMIDE FILM ON SILICON SUBSTRATE. <b>2009</b> , 009, 1-6		
66	Blue Luminescent Center in Undoped ZnO Thin Films Grown by Plasma-assisted Molecular Beam Epitaxy. <b>2009</b> , 19, 281-287		1
65	Optical Gas Sensing Properties of ZnO Nanowires. <b>2010</b> , 173-176		
64	First-principles calculations of ZnO polar surfaces and N adsorption mechanism. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2010</b> , 59, 4170	0.6	5
63	Effects of the concentration of Ga high doping on electric conductivity and red shift of ZnO from first-principles. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2010</b> , 59, 4156	0.6	10
62	First-principles study on electronic structure of In-doped wurtzite ZnO. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2010</b> , 59, 4925	0.6	12
61	The Effect of Catalytic Metal Contact on Methane Sensing Performance of Nanoporous ZnO -Si Heterojunction. <b>2010</b> , 3, 273-291		1
60	Fabrication and optical properties of ZnO/ZnMgO multiple quantum wells on m-sapphire substrates. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2011</b> , 60, 096801	0.6	3
59	Electronic structure and optical property of Boron adsorption on wurtzite ZnO(0001) surface. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2011</b> , 60, 066802	0.6	
58	High-quality ZnO nanowire arrays directly synthesized from Zn vapor deposition without catalyst. <i>Journal of the Korean Crystal Growth and Crystal Technology</i> , <b>2011</b> , 21, 137-146		
57	Energy band properties and phase stability of Be <sub>1-x</sub> Mg <sub>x</sub> O alloy. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2012</b> , 61, 237101	0.6	1
56	Study on the structure, optical, electrical and magnetic properties of Mn-Na codoping ZnO nonpolar thin films. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2012</b> , 61, 036701	0.6	1



55	A Study of Stacked Buffer Layers for the Epitaxial Growth of Zn <sub>0.58</sub> Mg <sub>0.42</sub> O Films on-Sapphire by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 09MF06	1.4	
54	Formulation, Characterization and LPG-Sensing Properties of CuO-Doped ZnO Thick Film Resistor. <b>2013</b> , 283-298		0
53	Structural and Optical Properties of ZnO Thin Films Grown on MgO(111) Substrates by Molecular Beam Epitaxy. <b>2013</b> , 03, 116-120		
52	Different morphologies of three dimensional ZnO structures synthesized by thermal evaporation method without a catalyst. <i>Journal of the Korean Crystal Growth and Crystal Technology</i> , <b>2013</b> , 23, 8-13		1
51	Time and Spatially Resolved Luminescence Spectroscopy of ZnO Nanostructures. <i>Springer Series in Materials Science</i> , <b>2014</b> , 195-216	0.9	
50	Transmission Electron Microscopy of 1D-Nanostructures. <b>2014</b> , 657-701		
49	First-principles study on p-type ZnO codoped with F and Na. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2014</b> , 63, 077101	0.6	4
48	Properties of Epitaxial ZnO Thin Films for Gan and Related Applications. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>1999</b> , 4, 339-343		
47	Quantum Dots: Cadmium Selenide. 4013-4022		
46	Effect of Mn on the Growth of ZnO Crystals via a Thermal Evaporation of Zn-Mn Mixture. <i>Journal of the Korean Institute of Electrical and Electronic Material Engineers</i> , <b>2014</b> , 27, 443-447		
45	Performance Improvement of ZnO Thin Films for SAW Bandpass Filter. <i>The Journal of Korean Institute of Electromagnetic Engineering and Science</i> , <b>2014</b> , 25, 1219-1227	0.3	
44	Time-resolved phase-change recording mark formation with zinc oxide near-field optical active layer. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 09MG03	1.4	1
43	Assessing the Limits of Accuracy for the Tauc Method for Optical 3 Band Gap Determination. 1-15		
42	ZnO Thin Films. <b>2017</b> , 212-239		
41	Production and Characterization of Nanoparticle ZnO Thin Film by Using Black Tea ( <i>Camellia sinensis</i> ) Aqueous Extract. <i>Journal of the Institute of Science and Technology</i> , 163-170	0	
40	Characterization of Mn doped ZnO wrinkle-network nanostructured thin films deposited by sol-gel spin coating technique. <b>2019</b> ,		
39	Zno-Based Dilute Magnetic Semiconductors. <i>Materials Horizons</i> , <b>2020</b> , 233-269	0.6	1
38	Changes in Schottky Barrier Height Behavior of PtRu Alloy Contacts on Single-Crystal ZnO. <i>NIMS Monographs</i> , <b>2020</b> , 5-26	0.3	

37	Optical study of ZnO nanorods grown via vapour solid growth method for energy harvesting applications. <b>2020</b> ,		1
36	ZnO Plasmonic Structure on a Tapered Optical Fiber. <b>2021</b> ,		
35	Electrical Properties of ZnO Nanoparticles. <i>International Journal of Scientific Research in Science, Engineering and Technology</i> , <b>2020</b> , 01-05	0.1	
34	Near-Field Optical Microscopy and Application to Nanophotonics. <b>2007</b> , 437-454		
33	The theoretical study on formation energy of zinc-blende and wurtzite ZnO <sub>1-x</sub> S <sub>x</sub> alloys. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 585, 012203	0.3	
32	Investigation of Structural and Optical Properties of ZnO Thin Films Grown on Different Substrates by Mist-CVD Enhanced with Ozone Gas Produced by Corona Discharge Plasma. <i>Advances in Condensed Matter Physics</i> , <b>2021</b> , 2021, 1-8	1	0
31	Study on Low Temperature Conduction Mechanism of Al Doped ZnO/SiO <sub>2</sub> /P-Si Heterojunction. <i>Key Engineering Materials</i> , 904, 363-368	0.4	
30	Enhanced ferromagnetism in Cu-Substituted ZnO nanoparticles. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 278, 125606	4.4	0
29	UV electroluminescence emissions from high-quality ZnO/ZnMgO multiple quantum well active layer light-emitting diodes.. <i>RSC Advances</i> , <b>2021</b> , 11, 38949-38955	3.7	1
28	Experimental and theoretical study on structural and electronic properties of Zn <sub>1-x</sub> Mg <sub>x</sub> O from (x=0 to 0.375) in wurtzite phase. <i>Superlattices and Microstructures</i> , <b>2022</b> , 107155	2.8	
27	Defects and band gap shrinkage in ZnO/rGO composite nano-pebbles prepared by solid-state reaction. <i>Diamond and Related Materials</i> , <b>2022</b> , 123, 108886	3.5	0
26	Advances in ZnO: Manipulation of defects for enhancing their technological potentials. <i>Nanotechnology Reviews</i> , <b>2022</b> , 11, 575-619	6.3	7
25	Synthesis, structural and optical properties of ZnS/ZnO heterostructure-alloy hexagonal micropylramids. <i>Optical Materials</i> , <b>2022</b> , 125, 112077	3.3	1
24	Electroactive ZnO: Mechanisms, Conductivity, and Advances in Zn Alkaline Battery Cycling. <i>Advanced Energy Materials</i> , 2103294	21.8	4
23	Doping Nature of Group V Elements in ZnO Single Crystals Grown from Melts at High Pressure. <i>Crystal Growth and Design</i> , <b>2022</b> , 22, 2452-2461	3.5	1
22	Effect of gold nanoparticles on the optoelectronic properties of oxygen-deficient ZnO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0
21	First principles study on the structures and properties of SnO <sub>2</sub> /ZnO alloys under high pressure. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 144, 106566	4.3	0
20	Polarization Angle Dependence of Optical Gain in a Hybrid Structure of Alexa-Fluor 488/M13 Bacteriophage.. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	

19	ZnO Fin Optical Cavities. <i>Journal of Physical Chemistry C</i> , 2022, 126, 12450-12456	3.8
18	Plasmonic structure of zinc (Zn) and zinc oxide (ZnO) on a tapered optical fiber.	1
17	Self-passivated Edges of ZnO Nanoribbon: A Global Search.	0
16	Synthesis and characterization of ZnO nanoflowers under temperature effect. 189-200	0
15	Investigation on the effect of NiO content on spray deposited ZnO for selective ammonia detection. <b>2022</b> , 33, 21615-21627	0
14	Interference Phenomena and Stimulated Emission in ZnO Films on Sapphire. <b>2022</b> , 15, 6409	0
13	Gain-Guiding Anisotropic Polarized Amplified Spontaneous Emissions from C-Plane ZnO/ZnMgO Multiple Quantum Wells. <b>2022</b> , 15, 6668	0
12	Enhancement of photodegradation activity of ZnO nanoparticles prepared by one-pot flash combustion route: an effect of Ag doping. <b>2022</b> , 54,	0
11	Structural Morphology and Optical Properties of Strontium-Doped Cobalt Aluminate Nanoparticles Synthesized by the Combustion Method. <b>2022</b> , 15, 8180	0
10	Solution processed highly transparent nitrogen-doped carbon quantum dots/ZnO hybrid thin films: A study on structural and enhanced UV emission. <b>2023</b> , 611, 155664	0
9	Morphological features and photoluminescence of ZnO and ZnO decorated S,N-doped few-layered graphene (ZnO@S,N-FLGs). <b>2023</b> , 174, 111175	0
8	Application of Piezoelectric Material and Devices in Bone Regeneration. <b>2022</b> , 12, 4386	1
7	Sensitization of ZnO Photoconductivity in the Visible Range by Colloidal Cesium Lead Halide Nanocrystals. <b>2022</b> , 12, 4316	0
6	Research Trends of Piezoelectric Nanomaterials in Biomedical Engineering. 2200088	0
5	Modification of optical constants at nanospherical ZnO:Al thin film. <b>2023</b> , 34,	0
4	Tunable performance of indium tin oxide-zinc oxide as Q-switcher. <b>2023</b> , 281, 170852	0
3	Improved field emission stability with a high current density of decorated CNTs for electron emission devices. <b>2023</b> , 34,	0
2	Electron paramagnetic resonance. <b>2023</b> ,	0

- 1 Zn Vacancies as Hydrogen Trap Sites in Polar Surfaces: A New Stabilization Mechanism for the ZnO(0001)-(2×2) Surface Reconstruction. o