

## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Li doped and undoped ZnO nanocrystalline thin films: a comparative study of structural and optical properties. Journal of Sol-Gel Science and Technology, 2007, 43, 171-177.	2.4	132
2	Microâ€Raman scattering spectroscopy study of Liâ€doped and undoped ZnO needle crystals. Journal of Raman Spectroscopy, 2009, 40, 556-561.	2.5	57
3	Growth and characterization of Bis Thiourea Zinc Acetate (BTZA). Crystal Research and Technology, 2006, 41, 37-40.	1.3	48
4	Study on photoluminescence from tris-(8-hydroxyquinoline)aluminum thin films and influence of light. Applied Physics Letters, 2006, 89, 082106.	3.3	47
5	Raman spectral investigation of thiourea complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 73, 263-267.	3.9	47
6	XRD, XPS, SEM, PL and Raman scattering analysis of synthesised GaN powder. Materials Chemistry and Physics, 2003, 77, 341-345.	4.0	46
7	Cesium doped and undoped ZnO nanocrystalline thin films: a comparative study of structural and microâ€Raman investigation of optical phonons. Journal of Raman Spectroscopy, 2010, 41, 1594-1600.	2.5	44
8	Influence of Al dopant on microstructure and optical properties of ZnO thin films prepared by sol–gel spin coating method. Optical Materials, 2007, 30, 314-317.	3.6	39
9	Infrared absorption spectra in bulk Feâ€doped InP. Applied Physics Letters, 1990, 56, 638-640.	3.3	35
10	Deposition and characterization of indium oxide and indium tin oxide semiconducting thin films by reactive thermal deposition technique. Journal of Electronic Materials, 1995, 24, 719-724.	2.2	35
11	Influence of post-deposition annealing on the structural, optical and electrical properties of Li and Mg co-doped ZnO thin films deposited by sol–gel technique. Superlattices and Microstructures, 2011, 49, 527-536.	3.1	34
12	Oxidation dependent crystallization behaviour of IO and ITO thin films deposited by reactive thermal deposition technique. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 55, 195-200.	3.5	33
13	Investigations on the structural and optical properties of Li, N and (Li, N) co-doped ZnO thin films prepared by sol–gel technique. Materials Science in Semiconductor Processing, 2010, 13, 46-50.	4.0	28
14	Low energy proton irradiation induced interface defects on Pd/n-GaAs Schottky diodes and its characteristics. Nuclear Instruments & Methods in Physics Research B, 1998, 140, 119-123.	1.4	26
15	Electrical characterisation of high energy 12C irradiated Au/n-GaAs Schottky Barrier Diodes. Nuclear Instruments & Methods in Physics Research B, 1999, 156, 110-115.	1.4	26
16	Influence of particle size on the phonon confinement of TiO <sub>2</sub> nanoparticles. Journal of Experimental Nanoscience, 2014, 9, 661-668.	2.4	26
17	Investigations on the effect of alpha particle irradiation-induced defects near Pd/n-GaAs interface. Vacuum, 2000, 57, 51-59.	3.5	25
18	Studies on influence of light on fluorescence of Tris-(8-hydroxyquinoline)aluminum thin films. Applied Surface Science, 2009, 255, 5760-5763.	6.1	24

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19	Microhardness studies of doped and undoped InP crystals. Journal of Materials Science Letters, 1991, 10, 559-561.	0.5	22
20	Structural studies on synthesised gallium nitride. Journal of Crystal Growth, 2000, 211, 184-188.	1.5	22
21	Observation of a 0.7eV electron trap in dilute GaAsN layers grown by liquid phase epitaxy. Applied Physics Letters, 2004, 85, 964-966.	3.3	22
22	Investigations on the vibrational spectroscopy and on the thermal behaviour of bis-thiourea zinc acetate—BTZA. Physica B: Condensed Matter, 2006, 371, 1-4.	2.7	20
23	Theoretical investigations on ZnCdO2 and ZnMgO2 alloys: A first principle study. Solid State Communications, 2006, 137, 507-511.	1.9	20
24	Effect of Fe substitution on the electronic structure, magnetic and thermoelectric properties of Co 2 FeSi full Heusler alloy: A first principle study. Computational Materials Science, 2015, 109, 34-40.	3.0	20
25	Effect of swift heavy ions of silver and oxygen on GaN. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 145-148.	1.4	19
26	Investigations on the 100 MeV Au7+ion irradiation of GaN. Semiconductor Science and Technology, 2007, 22, 511-516.	2.0	19
27	On the enhancement of effective barrier height in Schottky barrier diodes. Nuclear Instruments & Methods in Physics Research B, 1996, 119, 519-522.	1.4	18
28	Growth of dilute GaSbN layers by liquid-phase epitaxy. Journal of Crystal Growth, 2006, 297, 4-6.	1.5	18
29	Investigations on cobalt doped GaN for spintronic applications. Journal of Crystal Growth, 2011, 318, 432-435.	1.5	17
30	Magnetic properties of Ni doped gallium nitride with vacancy induced defect. Journal of Magnetism and Magnetic Materials, 2010, 322, 238-241.	2.3	16
31	Density functional study of half-metallic property on B2 disordered Co2FeSi. Journal of Materials Science, 2015, 50, 1287-1294.	3.7	16
32	High Quality GaAs Epitaxial Layers Grown from Ga–As–Bi Solutions by Liquid Phase Epitaxy. Japanese Journal of Applied Physics, 1997, 36, 3385-3388.	1.5	15
33	Vibrational spectra of Y3Al5O12 crystals grown from Ba- and Pb-based flux systems. Infrared Physics, 1986, 26, 101-103.	0.5	14
34	Growth and properties of bulk indium phosphide doubly doped with cadmium and sulphur. Journal of Crystal Growth, 1989, 96, 795-801.	1.5	14
35	On the chloride vapor-phase epitaxy growth of GaN and its characterization. Journal of Crystal Growth, 2004, 260, 43-49.	1.5	14
36	Metastable zone width, induction period and interfacial energy of bis thiourea zinc acetate (BTZA). Journal of Crystal Growth, 2005, 276, 243-246.	1.5	14

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37	TiO <sub>2</sub> nanocomposite for the controlled release of drugs against pathogens causing wound infections. Materials Research Express, 2018, 5, 024003.	1.6	14
38	Investigations on the concentration profiles of arsenic atoms during liquid phase epitaxial growth of GaAs from Ga-As-Bi solution. Materials Chemistry and Physics, 1997, 49, 141-145.	4.0	13
39	First principle calculations of the ground state properties and structural phase transformation for ternary chalcogenide semiconductor under high pressure. Computational Materials Science, 2007, 40, 193-200.	3.0	13
40	Role of dopant induced defects on the properties of Nd and Cr doped PZNT single crystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 185, 60-66.	3.5	13
41	Study on photoluminescence from tris-(8-hydroxyquinoline)indium thin films and influence of light. Optik, 2012, 123, 1393-1396.	2.9	12
42	Raman scattering studies in H+ and He+ implanted n-GaAs. Nuclear Instruments & Methods in Physics Research B, 1998, 145, 395-400.	1.4	11
43	Investigations on H+ and He+ implantation effects in n-InP Using Raman Scattering. Physica B: Condensed Matter, 1999, 262, 329-335.	2.7	11
44	Investigations on the nucleation kinetics of tris thiourea zinc cadmium sulphate. Journal of Crystal Growth, 2006, 292, 528-531.	1.5	11
45	Structural, optical and electrical properties of high energy irradiated Cl-VPE grown gallium nitride. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 129, 121-125.	3.5	11
46	Ab initio prediction of half-metallic ferromagnetism in Zn(TM)O2 (TM=Cr, Mn, Fe, Co, Ni) compounds. Journal of Magnetism and Magnetic Materials, 2008, 320, 774-778.	2.3	11
47	Crystal growth of PZNâ€₽T single crystals and critical issues for higher piezoelectric coefficient. Crystal Research and Technology, 2012, 47, 523-529.	1.3	11
48	Investigations on the Annealing Effects on Reactively Deposited ITO Thin Films. Physica Status Solidi A, 1997, 160, 97-104.	1.7	10
49	Investigations on Al/BaTiO3/GaN MFS structures. Materials Letters, 2002, 52, 80-84.	2.6	10
50	Electrical and optical isolation of GaN by high energy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2003, 207, 308-313.	1.4	10
51	Growth and characterization of gallium nitride nanowire. Journal of Crystal Growth, 2005, 275, e2367.	1.5	10
52	Growth and characterization of l-tryptophan-doped ferroelectric TGS crystals. Journal of Crystal Growth, 2008, 310, 1497-1500.	1.5	10
53	On the Neel temperature and magnetic domain wall movements of Ga2â^'xFexO3 single crystals grown by floating-zone technique. Journal of Alloys and Compounds, 2014, 590, 459-464.	5.5	10
54	Photovoltaic properties of sprayed In2O3î—,InP junctions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 14, 365-368.	3.5	9

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55	On the Bismuth Composition Dependent Concentration of Arsenic Atoms during LPE Growth of GaAs Layers from Ga–As–Bi Solution. Physica Status Solidi A, 1998, 165, 437-443.	1.7	9
56	Investigations of cobalt and carbon codoping in gallium nitride for spintronic applications. Journal of Magnetism and Magnetic Materials, 2012, 324, 1528-1533.	2.3	9
57	Magnetic properties of gadolinium and carbon co-doped gallium nitride. Solid State Communications, 2017, 249, 7-11.	1.9	9
58	Raman spectroscopic study of He ion implanted 4H and 6H-SiC. Materials Letters, 2018, 213, 208-210.	2.6	9
59	Growth, morphological and structural investigations of neodymium aluminium borate crystals from different flux systems. Journal of Crystal Growth, 1990, 100, 651-654.	1.5	8
60	Spray-pyrolytic-grown ITO/InP junctions: effect of tin doping. Semiconductor Science and Technology, 1993, 8, 437-440.	2.0	8
61	Investigations on 40MeV Li3+ ions irradiated GaN epilayers. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1799-1803.	1.4	8
62	Effect of 100MeV Ni9+ ion irradiation on MOCVD grown n-GaN. Physica B: Condensed Matter, 2011, 406, 4210-4213.	2.7	8
63	Micro Raman analysis of MOCVD grown gallium nitride epilayers irradiated with light and heavy ions. Materials Chemistry and Physics, 2012, 132, 494-499.	4.0	8
64	Growth and spectroscopic characterization of NdAl3(BO3)4 crystals grown using BaO-B2O3 flux. Journal of Materials Science Letters, 1987, 6, 1241-1242.	0.5	7
65	Structural and mechanical properties of ion implanted GaAs and InP single crystals grown by the liquid encapsulated Czochralski technique. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1994, 28, 461-464.	3.5	7
66	Raman Scattering Studies on the Thin Graded Band Gap AlGaAs Hetero-Epitaxial Layer. Crystal Research and Technology, 1999, 34, 1293-1298.	1.3	7
67	Investigations on the nanostructures of GaN, InN and InxGa1â^'xN. Materials Science in Semiconductor Processing, 2016, 49, 61-67.	4.0	7
68	Thermal cycling, DLTS, and PEC studies on LEC gallium arsenide. Crystal Research and Technology, 1994, 29, 223-228.	1.3	6
69	Improved electrical properties on the anodic oxide/InP interface for MOS structures. Journal of Electronic Materials, 1998, 27, 1358-1361.	2.2	6
70	Investigations on the CdS passivated anodic oxide–InP interface for MOS structures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 60, 25-30.	3.5	6
71	Raman scattering studies on hydrogen ion-implanted GaN. Nuclear Instruments & Methods in Physics Research B, 2001, 179, 193-199.	1.4	6
72	Investigations on the influence of 100ÂMeV O7+ion irradiation on the structural, surface morphology and optical studies of gallium nitride epilayers. Radiation Effects and Defects in Solids, 2007, 162, 229-236.	1.2	6

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73	First-principle calculations of structural stability of II-O1â^'xVIx (II-Zn, Cd and VI-S, Se, Te) ordered chalcopyrite semiconductors. Physica B: Condensed Matter, 2008, 403, 1824-1830.	2.7	6
74	Electrical characteristics of 100 MeV 28Si implanted LEC grown GaAsã€^100〉. Nuclear Instruments & Methods in Physics Research B, 1996, 117, 243-248.	1.4	5
75	A new etchant to reveal the subsurface damage on polished gallium arsenide substrates. Journal of Crystal Growth, 1997, 178, 229-232.	1.5	5
76	Growth of GaN films by chloride vapour phase epitaxy. Journal of Crystal Growth, 2004, 268, 475-477.	1.5	5
77	First-principle study of structural stability and electronic properties of Zn1–xBex O semiconductor alloy. Physica Status Solidi (B): Basic Research, 2007, 244, 3183-3189.	1.5	5
78	Growth and characterization of gallium nitride nanocrystals on carbon nanotubes. Journal of Crystal Growth, 2008, 310, 2260-2263.	1.5	5
79	Investigations on the effect of 100MeV Ni ions irradiated chloride vapour phase epitaxy (Cl-VPE) grown GaN epilayers. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 79-82.	1.4	5
80	Theoretical investigation of the electronic and optical properties of Zn2OX (X=S, Se, Te) in chalcopyrite phase by full potential methods. Journal of Alloys and Compounds, 2009, 479, 414-419.	5.5	5
81	Investigations on Au, Ag, and Al schottky diodes on liquid encapsulated czochralski grown n-GaAs〈100〉. Journal of Electronic Materials, 1995, 24, 813-817.	2.2	4
82	Annealing behaviour of 1 MeV hydrogen-implanted LEC grown InP <100>. Nuclear Instruments & Methods in Physics Research B, 1995, 101, 240-242.	1.4	4
83	Current-voltage characteristics of low energy proton and alpha particle irradiated Au and Schottky barrier diodes. Solid-State Electronics, 1997, 41, 802-805.	1.4	4
84	Effect of bismuth on liquid-phase epitaxy (LPE) grown GaAs layer using Ga–As–Bi melt. Journal of Crystal Growth, 1999, 200, 341-347.	1.5	4
85	Structural characterisation of remelt liquid phase epitaxy (LPE) grown AlGaAs heteroepitaxial layer. Journal of Crystal Growth, 1999, 203, 327-332.	1.5	4
86	Investigations on the undersaturated liquid phase epitaxial growth of AlxGa1â^'xAs. Journal of Crystal Growth, 2000, 212, 29-34.	1.5	4
87	Investigations on the annealing behavior of high-energy carbon irradiated Au/n-GaAs Schottky barrier diodes. Materials Science in Semiconductor Processing, 2000, 3, 195-199.	4.0	4
88	Effect of H+ implantation on the structural properties of GaN. Materials Science in Semiconductor Processing, 2001, 4, 585-589.	4.0	4
89	Transition metal swift heavy ion implantation on 4H-SiC. Nuclear Instruments & Methods in Physics Research B, 2016, 370, 101-106.	1.4	4
90	Effect of substrate on the structural and magnetic properties of DC sputtered Co2FeSi full Heusler alloy thin films. Journal of Crystal Growth, 2017, 468, 220-224.	1.5	4

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91	Effect of irradiation on the microhardness of the LEC grown semi-insulating GaAs single crystals. Journal of Nuclear Materials, 1995, 225, 314-317.	2.7	3
92	Liquid Encapsulated Czochralski Growth of Large size Gallium Arsenide and Indium Phosphide Single Crystals and their Characterisation—A Review. IETE Journal of Research, 1997, 43, 125-130.	2.6	3
93	Deep Level Transient Spectroscopic Analysis on Au/SiO2/InP MOS Structures. Physica Status Solidi A, 1999, 175, 591-596.	1.7	3
94	BaTiO3 as an insulating layer for InP-based metal-insulator–semiconductor structures. Materials Letters, 2001, 51, 56-60.	2.6	3
95	First-principles prediction of half-metallic ferromagnetism in Cd(TM)O2 (TM=Cr, Mn, Fe, Co, Ni) compounds. Physica B: Condensed Matter, 2008, 403, 2768-2772.	2.7	3
96	Microâ€Raman analysis of GaAs Schottky barrier solar cell. Journal of Raman Spectroscopy, 2011, 42, 422-428.	2.5	3
97	Studies on structural and magnetic properties of NdFeO3 single crystals grown by optical floating zone technique. Bulletin of Materials Science, 2020, 43, 1.	1.7	3
98	Inclusions in co-doped InP single crystals. Semiconductor Science and Technology, 1992, 7, A141-A145.	2.0	2
99	Investigations on the estimation of arsenic atoms and growth of GaAs epitaxial layers from bismuth solution. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 58, 229-233.	3.5	2
100	Investigations on thermal, mechanical properties and micro morphological studies on Tris thiourea zinc cadmium sulphate (TTZCS) single crystal. EPJ Applied Physics, 2008, 41, 69-73.	0.7	2
101	Investigations on the evaluation of schottky barrier diode parameters of the proton irradiated Ti/n-GaAs. Radiation Effects and Defects in Solids, 2000, 152, 39-47.	1.2	1
102	Progress in III-nitrides: Process issue and purity perspective. Bulletin of Materials Science, 2005, 28, 355-360.	1.7	1
103	Effect of tungsten doping on the properties of PZN-PT single crystals. AIP Conference Proceedings, 2021, , .	0.4	1
104	Growth and spectroscopic characterisation of Neodymium Aluminium Barium Borate using floating zone apparatus. Crystal Research and Technology, 1988, 23, 1337-1341.	1.3	0
105	Investigations on the swift heavy ion implanted GaAs substrates. Vacuum, 2002, 68, 291-296.	3.5	0
106	Studies on the Fluorescence of Tris-(8-hydroxyquinoline)Aluminum and the Effect of Light Exposure. Polymer-Plastics Technology and Engineering, 2010, 49, 1289-1291.	1.9	0
107	Investigations on the mechanical, optical and structural properties on L-methionine-doped triglycine sulfate single crystals. EPJ Applied Physics, 2012, 58, 10701.	0.7	0
108	Investigations on the Growth and Microhardness Studies of Ga2 – xFexO3 Single Crystals. Physics of Metals and Metallography, 2021, 122, 1234-1240.	1.0	0