Moorthy Babu Sridharan

List of Publications by Year in descending order

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172	2.314	²¹⁸⁶⁷⁷ 26	330143 37
papers	citations	h-index	g-index
172	172	172	2625
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Hydrothermally grown ZnO nanoparticles for effective photocatalytic activity. Applied Surface Science, 2017, 418, 138-146.	6.1	121
2	Study of the influence of dopants on the crystalline perfection of ferroelectric glycine phosphite single crystals using high-resolution X-ray diffraction analysis. Journal of Applied Crystallography, 2011, 44, 313-318.	4.5	83
3	Thermal, dielectric studies on pure and amino acid (l-glutamic acid, l-histidine, l-valine) doped KDP single crystals. Optical Materials, 2008, 30, 1361-1368.	3.6	63
4	Cesium lead halide (CsPbX ₃ , X = Cl , Br, I) perovskite quantum dots-synthesis, properties, and applications: a review of their present status. Journal of Photonics for Energy, 2016, 6, 042001.	1.3	58
5	Spectroscopic properties of Eu 3+ :KLa(WO 4) 2 novel red phosphors. Journal of Luminescence, 2016, 170, 547-555.	3.1	51
6	Sol–gel synthesis and photoluminescence analysis of Sm 3+ :NaGd(WO 4) 2 phosphors. Journal of Luminescence, 2016, 170, 743-748.	3.1	48
7	Spectroscopic analysis of Eu doped transparent CaF2 ceramics at different concentration. Optical Materials, 2011, 33, 735-737.	3.6	47
8	Semiconductor nanoparticles sensitized TiO 2 nanotubes for high efficiency solar cell devices. Renewable and Sustainable Energy Reviews, 2016, 57, 1307-1321.	16.4	44
9	Influence of different stabilizers on the optical and nonlinear optical properties of CdTe nanoparticles. Optics Communications, 2011, 284, 2900-2904.	2.1	43
10	Surface and bulk properties of CuGaSe2 thin films. Journal of Physics and Chemistry of Solids, 2003, 64, 1553-1557.	4.0	41
11	Photoluminescence properties of Eu3+:RbGd(WO4)2 red phosphors prepared by sol–gel method. Journal of Luminescence, 2016, 170, 825-834.	3.1	40
12	Sol–gel synthesis and characterizations of crystalline NaGd(WO4)2 powder for anisotropic transparent ceramic laser application. Optical Materials, 2013, 35, 740-743.	3.6	37
13	Growth and characterization of metal ions and dyes doped KDP single crystals for laser applications. Materials Research Bulletin, 2008, 43, 1716-1723.	5.2	34
14	Photoluminescence properties of novel Sm3+ and Dy3+ co-activated CsGd(WO4)2 phosphors. Journal of Alloys and Compounds, 2015, 637, 350-360.	5.5	32
15	Sol–gel synthesis and photoluminescence studies on colour tuneable Dy3+/Tm3+ co-doped NaGd(WO4)2 phosphor for white light emission. Journal of Luminescence, 2015, 157, 357-364.	3.1	32
16	Czochralski growth of lead tungstate single crystals and their characterization. Journal of Crystal Growth, 1998, 183, 391-397.	1.5	31
17	Efficient energy transfer between Ce3+ and Nd3+ in cerium codoped Nd: YAG laser quality transparent ceramics. Journal of Alloys and Compounds, 2010, 507, 475-478.	5.5	31
18	Optimisation of the CBD CdS deposition parameters for ZnO/CdS/CuGaSe2/Mo solar cells. Journal of Physics and Chemistry of Solids, 2003, 64, 1849-1853.	4.0	30

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19	Growth and optical properties of Cu ₂ ZnSnS ₄ decorated reduced graphene oxide nanocomposites. Dalton Transactions, 2015, 44, 15031-15041.	3.3	30
20	Crystal growth and characterization of KY(WO4)2 and KGd(WO4)2 for laser applications. Journal of Crystal Growth, 2006, 292, 368-372.	1.5	27
21	Habit modification and improvement in properties of potassium hydrogen phthalate (KAP) crystals doped with metal ions. Crystal Research and Technology, 2006, 41, 221-224.	1.3	27
22	The role of potassium tellurite as tellurium source in mercaptoacetic acid-capped CdTe nanoparticles. Current Applied Physics, 2010, 10, 317-322.	2.4	27
23	Synthesis of thiol modified CdSe nanoparticles/P3HT blends for hybrid solar cell structures. Materials Science in Semiconductor Processing, 2014, 22, 44-49.	4.0	27
24	Luminescence characterization of sol-gel derived Pr3+ doped NaGd(WO4)2 phosphors for solid state lighting applications. Materials Chemistry and Physics, 2016, 179, 295-303.	4.0	27
25	Growth and optical characterization of colloidal CdTe nanoparticles capped by a bifunctional molecule. Physica B: Condensed Matter, 2010, 405, 3279-3283.	2.7	26
26	Efficient energy transfer between Ce3+/Cr3+ and Nd3+ ions in transparent Nd/Ce/Cr:YAG ceramics. Optical Materials, 2011, 34, 303-307.	3.6	26
27	Influence of pH and microwave calcination on the morphology of KGd(WO4)2 particles derived by Pechini Sol–Gel method. Journal of Sol-Gel Science and Technology, 2011, 58, 419-426.	2.4	26
28	Novel KGd1â^'(x+y)EuxBiy (W1â^'zMozO4)2 nanocrystalline red phosphors for tricolor white LEDs. Journal of Luminescence, 2013, 134, 244-250.	3.1	25
29	Room temperature ferromagnetic behavior, linear and nonlinear optical properties of KNbO3 microrods. Ceramics International, 2018, 44, 3297-3306.	4.8	25
30	Role of co-sensitization in dye-sensitized and quantum dot-sensitized solar cells. SN Applied Sciences, 2019, 1, 1.	2.9	25
31	Synthesis and photoluminescence properties of Sm3+ doped LiGd(WO4)2 phosphors with high color purity. Optical Materials, 2020, 102, 109804.	3.6	25
32	Photoluminescence properties of sub-micron NaGd 1â^'x Eu x (WO 4) 2 red phosphor for solid state lightings application: Derived by different synthesis routes. Superlattices and Microstructures, 2016, 93, 308-321.	3.1	23
33	Growth and characterization of an organometallic tri-allylthiourea complex nonlinear optical crystals. Journal of Crystal Growth, 2008, 310, 2050-2057.	1.5	22
34	Synthesis, crystal growth and mechanical properties of lead molybdate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 47, 269-273.	3.5	21
35	Investigation of swift heavy ion irradiation effects in CdTe crystals. Journal Physics D: Applied Physics, 2006, 39, 2707-2710.	2.8	21
36	Effect of Sodium Fluoroborate (NaBF4) Doping on the NLO Properties ofl-Histidine Single Crystals. Crystal Growth and Design, 2007, 7, 1695-1698.	3.0	21

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37	Sol–gel synthesis and luminescent properties of Eu3+:CsGd(WO4)2 red emitting phosphors. Journal of Luminescence, 2014, 146, 458-463.	3.1	21
38	Optical characterization of ferroelectric glycinium phosphite single crystals. Journal of Alloys and Compounds, 2010, 490, 342-349.	5.5	20
39	Progress on synthesis and applications of hybrid perovskite semiconductor nanomaterials—A review. Synthetic Metals, 2018, 246, 64-95.	3.9	20
40	Influence of cooling rate on the dislocations and related luminescence in LPE SiGe layers grown on Si (100) substrates. Thin Solid Films, 2000, 372, 1-5.	1.8	19
41	Effect of irradiation of swift heavy ions on dyes-doped KDP crystals for laser applications. Journal of Crystal Growth, 2008, 310, 1999-2004.	1.5	19
42	SiO2/KGd(WO4)2:Eu3+ composite luminescent nanoparticles: Synthesis and characterization. Materials Chemistry and Physics, 2012, 135, 1115-1121.	4.0	19
43	Effect of rare earth ions on the properties of glycine phosphite single crystals. Journal of Crystal Growth, 2013, 362, 343-348.	1.5	19
44	Electrodeposition of CdTe by potentiostatic and periodic pulse techniques. Thin Solid Films, 1991, 202, 67-75.	1.8	17
45	Some aspects on the growth of lead molybdate single crystals and their characterization. Materials Chemistry and Physics, 1997, 49, 120-123.	4.0	17
46	Crystal growth of pure and doped-KGd(WO4)2 and their characterization for laser applications. Journal of Crystal Growth, 2005, 275, e2117-e2121.	1.5	17
47	Influence of ultrsonification in CdS thin film deposition in PCD technique. Materials Letters, 2005, 59, 1795-1800.	2.6	17
48	Synthesis and characterization of monoclinic KGd(WO4)2 particles for non-cubic transparent ceramics. Optical Materials, 2013, 35, 753-756.	3.6	17
49	Synthesis, crystal structure and growth of a new inorganic- organic hybrid compound for nonlinear optical applications: Aquadiiodo (3-aminopropanoic acid) cadmium (II). Journal of Physics and Chemistry of Solids, 2017, 111, 419-430.	4.0	17
50	Effect of fluorine doping on the structural, optical and electrical properties of spray deposited cadmium stannate thin films. Materials Science in Semiconductor Processing, 2013, 16, 1964-1970.	4.0	16
51	Bulk growth of InSb crystals for infrared device applications. Journal of Crystal Growth, 1999, 200, 96-100.	1.5	15
52	Growth of homogeneous polycrystalline Si1-xGex and Mg2Si1-xGex for thermoelectric application. Thin Solid Films, 2011, 519, 8532-8537.	1.8	15
53	A controlled approach for synthesizing CdTe@CrOOH (core-shell) composite nanoparticles. Current Applied Physics, 2011, 11, 926-932.	2.4	15
54	Investigation of structural and luminescent properties of Pr3+ activated CsGd(WO4)2 by sol–gel synthesis. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 762-767.	3.5	15

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55	Evolution of non-phosphine solvents in colloidal synthesis of I-III-VI 2 and I 2 -II-IV-VI 4 group semiconductor nanomaterials – Current status. Materials Science in Semiconductor Processing, 2017, 67, 152-174.	4.0	15
56	Composition and growth procedure-dependent properties of electrodeposited CuInSe2 thin films. Journal of Crystal Growth, 2005, 275, e1241-e1246.	1.5	14
57	Influence of swift ions and proton implantation on the formation of optical waveguides in lithium niobate. Journal of Applied Physics, 2007, 102, 084905.	2.5	14
58	FT-IR, NIR-FT-Raman and gas phase infrared spectra of 3-aminoacetophenone by density functional theory and ab initio Hartree–Fock calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 59-67.	3.9	14
59	Synthesis, growth and characterization of an organometallic complex tri-allylthiourea cadmium bromide single crystals. Current Applied Physics, 2010, 10, 858-865.	2.4	14
60	Effect of dysprosium active ions on spectral properties of KGW single crystals. Journal of Alloys and Compounds, 2011, 509, 177-180.	5.5	14
61	Colloidal synthesis of copper cadmium sulphide (CuCdS 2) nanoparticles and its structural, optical and morphological properties. Materials Science in Semiconductor Processing, 2017, 66, 123-130.	4.0	14
62	Electrocrystallization and characterization of CuInSe2 thin films. Materials Chemistry and Physics, 1995, 42, 210-213.	4.0	13
63	Growth, phase analysis and mechanical properties of InSb1â^'xBix crystals. Materials Chemistry and Physics, 2000, 66, 17-21.	4.0	13
64	Investigation of swift heavy ion irradiation effects on Au/CdTe and Au/CdZnTe Schottky barrier diode. Radiation Measurements, 2008, 43, 56-61.	1.4	13
65	Synthesis of Cu2ZnSnSe4 hierarchical nanostructures by colloidal method. Optik, 2016, 127, 10360-10365.	2.9	13
66	Thin film deposition and characterization of CuInSe2. Thin Solid Films, 1991, 198, 269-278.	1.8	12
67	Crystal growth and characterization of sucrose single crystals. Materials Chemistry and Physics, 1997, 49, 83-86.	4.0	12
68	A study of the optical and mechanical properties of PbWO4 single crystals. Journal of Crystal Growth, 1998, 191, 130-134.	1.5	12
69	Effect of co-sensitization of CdSe nanoparticles with N3 dye on TiO2 nanotubes. Solar Energy, 2014, 106, 136-142.	6.1	12
70	X-ray photoelectron spectroscopic studies of electrodeposited mercury cadmium telluride semiconductor thin films. Journal of Physics and Chemistry of Solids, 2000, 61, 765-771.	4.0	11
71	X-ray photoelectron spectroscopy, high-resolution X-ray diffraction and refractive index analyses of Ti-doped lithium niobate (Ti:LiNbO3) nonlinear optical single crystal. Pramana - Journal of Physics, 2010, 75, 1035-1040.	1.8	11
72	Characterization of paramagnetic KHo(WO4)2 nanocrystals: Synthesized by polymeric mixed-metal precursor sol–gel method. Journal of Alloys and Compounds, 2011, 509, 9890-9896.	5.5	11

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73	Hydrothermal synthesis and characterization of CuInSe2 nanoparticles using ethylenediamine as capping agent. Solar Energy, 2014, 106, 177-183.	6.1	11
74	Synthesis and characterization of hexagonal faceted copper sulfide (Cu1.8S) nanodisks. Materials Science in Semiconductor Processing, 2015, 40, 203-208.	4.0	11
75	Electrodeposition of CdSexTe1 â^' x by periodic pulse technique. Journal of Crystal Growth, 1991, 110, 423-428.	1.5	10
76	Photoconductivity studies of CdSe1â^'x Te x thin films as a function of doping concentration. Bulletin of Materials Science, 1996, 19, 437-442.	1.7	10
77	Quality assessment of Bridgman-grown CdTe single crystals using double-crystal X-ray diffractometry (DCD) and synchrotron radiation. Journal of Crystal Growth, 2000, 210, 193-197.	1.5	10
78	Growth of two-dimensional KGd(WO4)2 nanorods by modified sol–gel Pechini method. Optical Materials, 2010, 32, 1321-1324.	3.6	10
79	Enhanced efficiency of luminescence with stoichiometry control in LiGd(W (1â^'x) Mo x O 4) 2 :Eu 3+ red phosphors. Journal of Crystal Growth, 2017, 468, 766-769.	1.5	10
80	Defect distribution and morphology development of SiGe layers grown on Si(100) substrates by LPE. Thin Solid Films, 1998, 336, 116-119.	1.8	9
81	Interband transitions in bismuth germanate crystals grown from the melts of several [Ge/Bi] ratios. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 1243.	2.1	9
82	Defect analysis in Czochralski grown Bi12SiO20 crystals. Journal of Crystal Growth, 2001, 229, 233-237.	1.5	9
83	Growth and characterization of an organometallic nonlinear optical material tri-allylthiourea cadmium chloride (ATCC). Materials Chemistry and Physics, 2008, 107, 23-27.	4.0	9
84	Spectral and Morphological Studies of Nanocrystalline Silicon Thin Films Synthesized by PECVD for Solar Cells. Silicon, 2010, 2, 7-17.	3.3	9
85	Crystal growth, structural perfection, phase transition, optical, and etching studies of doped glycine phosphite ferroelectric single crystals. Journal of Alloys and Compounds, 2010, 505, 268-272.	5.5	9
86	Growth, vibrational and luminescence analysis of monoclinic KGd(1â^'x)Prx(WO4)2 (x=0.005, 0.02, 0.05) single crystals. Journal of Crystal Growth, 2013, 362, 319-323.	1.5	9
87	Size dependence of upconversion photoluminescence in MPA capped CdTe quantum dots: Existence of upconversion bright point. Journal of Luminescence, 2016, 169, 308-312.	3.1	9
88	DFT and TD-DFT Calculations of Some Metal Free Phthalonitrile Derivatives for Enhancement of the Dye Sensitized Solar Cells. Acta Physica Polonica A, 2011, 119, 395-404.	0.5	9
89	Vertical Bridgman growth of InSb1–xBix crystals for LWIR applications. Journal of Materials Science Letters, 2001, 20, 241-244.	0.5	8
90	Effect of different metal ions on structural, thermal, spectroscopic and optical properties of ATCC and ATMC single crystals. Crystal Research and Technology, 2007, 42, 838-843.	1.3	8

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91	Synthesis, crystalline perfection, optical and dielectric studies on metal–organic tri-allylthiourea cadmium chloride (ATCC) nonlinear optical single crystal by solution growth technique. Journal of Alloys and Compounds, 2012, 538, 131-135.	5.5	8
92	Synthesis, crystal growth, physio-chemical characterization and quantum chemical calculations of NLO active metal–organic crystal: dibromo(4-hydroxy- <scp>l</scp> -proline)cadmium(<scp>ii</scp>) for non-linear optical applications. New Journal of Chemistry, 2018, 42, 17464-17477.	2.8	8
93	Ligand assisted tunability of morphological and optical properties of copper sulfide nanocrystals. Materials Science in Semiconductor Processing, 2019, 104, 104685.	4.0	8
94	Investigations on electrochemical growth and properties of mercury cadmium telluride semiconductor thin films for device fabrication. Journal of Crystal Growth, 1999, 198-199, 1165-1169.	1.5	7
95	Effect of ligand exchange in optical and morphological properties of CdTe nanoparticles/P3HT blend. Solar Energy, 2014, 106, 151-158.	6.1	7
96	Facile synthesis and transformation of Te nanorods to CdTe nanoparticles. Materials Science in Semiconductor Processing, 2014, 27, 12-18.	4.0	7
97	Structural, Morphological, Vibrational, and Photoluminescence Study of Sol–Gel-Synthesized Tm3+:NaGd(WO4)2 Blue Phosphors. Journal of Electronic Materials, 2015, 44, 4199-4206.	2.2	7
98	Surface-treated Cu2ZnSnS4 nanoflakes as Pt-free inexpensive and effective counter electrode in DSSC. Journal of Materials Science: Materials in Electronics, 2020, 31, 18164-18174.	2.2	7
99	Optical properties of thiol-stabilised CdTe nanoparticles. International Journal of Nanoparticles, 2009, 2, 20.	0.3	6
100	Influence of dopant concentration on the structural and optical characteristics in Ti doped (2 and) Tj ETQq0 0 0 r	gBT /Overl 3.6	oçk 10 Tf 50
101	Synthesis, structural and vibrational studies on mixed alkali metal gadolinium double tungstate, K1â^'xNaxGd(WO4)2. Optical Materials, 2013, 35, 735-739.	3.6	6
102	Synthesis of oleylamine-capped Cu2ZnSn(S,Se)4nanoparticles using 1-dodecanethiol as sulfur source. Japanese Journal of Applied Physics, 2015, 54, 08KA10.	1.5	6
103	Structural, morphological, optical and electrical properties of Cu0.87Se thin films coated by electron beam evaporation method. Applied Physics A: Materials Science and Processing, 2015, 120, 1113-1120.	2.3	6
104	Synthesis and Characterization of Cadmium Selenide (CdSe) Nanoparticles Using Trigonal Selenium (t-Se) Nanorods as Selenium Source. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 569-575.	3.7	6
105	Morphological controlled synthesis of hierarchical copper selenide nanocrystals by Oleic acid, 1-Dodecanethiol and 1-Octadecene as surfactants. Journal of Crystal Growth, 2017, 468, 169-174.	1.5	6
106	Exploration of photoanode characteristics of a mixed ferroelectric ZnSnO3 and semiconducting Zn2SnO4 phase for photovoltaic applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 15106-15111.	2.2	6
107	Effect of CH ₃ NH ₃ I vapour evaporation temperature on the quality of the lead-free bismuth based perovskites thin-films. Materials Research Express, 2019, 6, 066418.	1.6	6

Studies on Schottky Barrier Diodes Fabricated using Singleâ€Crystal Wafers of108βâ€Ga₂O₃ Grown by the Optical Floating Zone Technique. Physica Status Solidi1.56(B): Basic Research, 2022, 259, 2100496.

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109	Growth of inclusion-free InSb crystals by vertical Bridgman method. Journal of Crystal Growth, 2000, 211, 207-210.	1.5	5
110	Growth and characterization of Ytterbium doped KGd(WO ₄) ₂ single crystal. Crystal Research and Technology, 2008, 43, 1036-1040.	1.3	5
111	Aqueous synthesis and characterization of CdTe@Co(OH)2 (core–shell) composite nanoparticles. Materials Chemistry and Physics, 2010, 124, 592-599.	4.0	5
112	Synthesis, crystal growth, structural, spectral and optical properties of tri-allylthiourea mercury bromide (ATMB) single crystals. Physica B: Condensed Matter, 2010, 405, 4303-4306.	2.7	5
113	Selective synthesis and characterization of CdTe@Mn(OH)2 (core–shell) composite nanoparticles. Journal of Alloys and Compounds, 2010, 496, 589-594.	5.5	5
114	Structural, compositional and optical analysis of InAsxSb1â^'x crystals grown by vertical directional solidification method. Journal of Alloys and Compounds, 2013, 548, 23-26.	5.5	5
115	High Power Factor of Ga-Doped Compositionally Homogeneous Si _{0.68} Ge _{0.32} Bulk Crystal Grown by the Vertical Temperature Gradient Freezing Method. Crystal Growth and Design, 2015, 15, 1380-1388.	3.0	5
116	Photoâ€enhanced catalytic activity of sprayâ€coated Cu ₂ SnSe ₃ nanoparticle counter electrode for dyeâ€sensitised solar cells. Physica Status Solidi - Rapid Research Letters, 2016, 10, 739-744.	2.4	5
117	Impact of Eu3+ concentration on the fluorescence properties of the LiGd(W0.5Mo0.5O4)2 novel red phosphors. Solid State Sciences, 2019, 98, 106028.	3.2	5
118	Solution processed Cu2ZnSnSe4 nanoink for inexpensive Pt-free counter electrode in dye-sensitized solar cells. Solid State Sciences, 2021, 116, 106612.	3.2	5
119	Morphological studies on electrodeposited mercury cadmium telluride thin films. Materials Chemistry and Physics, 1999, 59, 107-113.	4.0	4
120	Stoichiometry and doping induced modifications in the properties of Bi12SiO20 single crystals. Journal of Crystal Growth, 2005, 275, e681-e686.	1.5	4
121	High energy Sn ion implantation induced effects in InSb substrates. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 179-182.	1.4	4
122	Investigation of CdTexand Cd1â^'xZnxTe Schottky Barrier Diode Structure Based γ-Ray Detectors. Materials and Manufacturing Processes, 2007, 22, 375-378.	4.7	4
123	CdTe@Cu(OH)2 nanocomposite: Aqueous synthesis and characterization. Journal of Solid State Chemistry, 2011, 184, 1135-1140.	2.9	4
124	Improvement in Structural, Dielectric, Ferroelectric and Mechanical Properties in Metal Ions Doped Glycine Phosphite Single Crystals. Ferroelectrics, 2012, 437, 126-136.	0.6	4
125	Comparative analysis of LiGd(WO4)2:Eu3+ phosphors derived by sol gel and hydrothermal methods. Journal of Crystal Growth, 2017, 468, 159-161.	1.5	4
126	Influence of Capping Ligand and Synthesis Method on Structure and Morphology of Aqueous Phase Synthesized CuInSe2 Nanoparticles. Journal of Electronic Materials, 2017, 46, 296-305.	2.2	4

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127	Synthesis and Characterization of amine capped Cu 2 ZnSnS 4 (CZTS) nanoparticles (NPs) for Solar cell application. Materials Today: Proceedings, 2017, 4, 12484-12490.	1.8	4
128	Influence of different sulfur sources on the phase formation of Cu2ZnSnS4 (CZTS) nanoparticles (NPs). Journal of Materials Science: Materials in Electronics, 2018, 29, 9751-9756.	2.2	4
129	Ligand exchange in \$\$hbox {Cu}_{2}hbox {ZnSnS}_{4}\$\$ nanoparticles and its effect on counter electrode performance in dye-sensitized solar cells. Bulletin of Materials Science, 2019, 42, 1.	1.7	4
130	Developments in Colloidal Synthesis of Cu _{2-<i>x</i>} S (0 ≤i>x ≤) Nanocrystals—An Overview. Journal of Nanoscience and Nanotechnology, 2020, 20, 3659-3682.	0.9	4
131	Thermal stability and environmental effects on CuGaSe2 thin film solar cells. Journal of Crystal Growth, 2005, 275, e1235-e1240.	1.5	3
132	Photovoltaic effect and photoconductivity in Sc-doped near-stoichiometric LiNbO3 crystals. Optical Materials, 2008, 31, 280-283.	3.6	3
133	Nano hillock and complex crater formation by low-energy proton implantation with incident angle into lithium niobate single crystal. Radiation Effects and Defects in Solids, 2011, 166, 258-264.	1.2	3
134	Analysis of dissolution and growth process of SiGe alloy semiconductor based on penetrated X-ray intensities. Journal of Alloys and Compounds, 2014, 590, 96-101.	5.5	3
135	Colloidal synthesis and characterization of Cu ₂ ZnSnS ₄ nanoplates. Journal of Semiconductors, 2017, 38, 033007.	3.7	3
136	Coordinating Effect of Non-phosphine Solvents on the Structure and Morphological Properties of Cu2SnSe3 (CTSe) Nanoparticles Synthesized by Hot-Injection Method. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 477-482.	3.7	3
137	Effect of different nanostructures of Cu2ZnSnS4 on visible light-driven photocatalytic degradation of organic pollutants. Journal of Materials Science: Materials in Electronics, 2022, 33, 894-906.	2.2	3
138	Electrodeposition kinetics of gallium arsenide. Bulletin of Materials Science, 1990, 13, 43-49.	1.7	2
139	Growth and characterization of pure and doped KY(WO4)2 crystals. Journal of Crystal Growth, 2005, 275, e1901-e1905.	1.5	2
140	Growth and Characterization of InAsxSb1â^'xBulk Crystals and Growth Rate Measurements. Materials and Manufacturing Processes, 2007, 22, 404-408.	4.7	2
141	Investigation of Modified Bridgman Grown CdTexCrystals and Their Characterization. Materials and Manufacturing Processes, 2008, 23, 484-488.	4.7	2
142	Electronic structure of URh3up to 40 GPa. Journal of Physics: Conference Series, 2010, 215, 012115.	0.4	2
143	Recharging processes, radiation induced strain and changes of OHâ~' bands under H+ ion implantation in Ti doped lithium niobate. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 172-177. 	1.4	2
144	Synthesis, crystal growth and characterization of a metal-organic nonlinear optical tri-allylthiourea mercury chloride single crystals. Optics Communications, 2010, 283, 4368-4371.	2.1	2

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145	Nucleation kinetics and growth aspects of glycine phosphite ferroelectric single crystals. Materials Chemistry and Physics, 2011, 126, 381-385.	4.0	2
146	Synthesis and Characterization of Sodium Bis(2-ethylhexyl) Sulfonsuccinate (AOT) Capped Pure and Mn-Doped CdS Nanoparticles. Journal of Nanomaterials, 2012, 2012, 1-8.	2.7	2
147	Synthesis and Efficient Phase Transfer of CdSe Nanoparticles for Hybrid Solar Cell Applications. Conference Papers in Energy, 2013, 2013, 1-3.	0.6	2
148	Size-independent peak shift between normal and upconversion photoluminescence in MPA-capped CdTe nanoparticles. Pramana - Journal of Physics, 2014, 82, 353-358.	1.8	2
149	Crystal structure controlled synthesis and characterization of copper sulfide nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	2
150	Role of phosphine free solvents in structural and morphological properties of CulnSe2 nanoparticles. Journal of Materials Science: Materials in Electronics, 2016, 27, 12418-12426.	2.2	2
151	Influence of Morphologyâ€Controlled Cu ₂ ZnSnSe ₄ Nanoparticles for Environmental Remediation Process under Visible Light. Physica Status Solidi (B): Basic Research, 2022, 259, .	1.5	2
152	Etching and microhardness studies on lead molybdate single crystals. Journal of Materials Science Letters, 1997, 16, 1274-1276.	0.5	1
153	THERMAL, DIELECTRIC STUDIES ON PURE AND AMINO ACID (L-GLUTAMIC ACID, L-HISTIDINE, L-VALINE) DOPED POTASSIUM DIHYDROGEN PHOSPHATE SINGLE CRYSTALS. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 255-268.	1.8	1
154	Crystal growth and characterization of Deuterated Glycine Phosphite single crystals. Materials Letters, 2010, 64, 2142-2144.	2.6	1
155	Linear and Nonlinear Optical Properties of Mercaptoacetic Acid-Capped CdTe Nanoparticles by <1>Z 1 -Scan Technique. Nanoscience and Nanotechnology Letters, 2011, 3, 637-642.	0.4	1
156	Properties of ferroelectric glycine phosphite single crystals. , 2013, , .		1
157	Enhanced light absorption in CdTe nanoparticles/P3HT nanofiber blends. , 2013, , .		1
158	Synthesis and vibrational characterization of KLa(WO[sub 4])[sub 2] crystalline powders by modified pechini method. , 2013, , .		1
159	Investigation on the luminescence properties of Eu3+/Tb3+:Y3Al5O12 phosphors. AIP Conference Proceedings, 2015, , .	0.4	1
160	Synthesis, vibrational and luminescence studies on Eu3+:KY(WO4)2 red phosphors. AIP Conference Proceedings, 2015, , .	0.4	1
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