

# Moorthy Babu Sridharan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7457006/publications.pdf>

Version: 2024-02-01

172  
papers

2,314  
citations

218381  
26  
h-index

329751  
37  
g-index

172  
all docs

172  
docs citations

172  
times ranked

2625  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermally grown ZnO nanoparticles for effective photocatalytic activity. Applied Surface Science, 2017, 418, 138-146.	3.1	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.	1.9	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.	1.7	63
4	Cesium lead halide ( $\text{CsPbX}_3$ , 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.	0.8	58
5	Spectroscopic properties of $\text{Eu}^{3+}:\text{KLa}(\text{WO}_4)_2$ novel red phosphors. Journal of Luminescence, 2016, 170, 547-555.	1.5	51
6	Sol-gel synthesis and photoluminescence analysis of $\text{Sm}^{3+}:\text{NaGd}(\text{WO}_4)_2$ phosphors. Journal of Luminescence, 2016, 170, 743-748.	1.5	48
7	Spectroscopic analysis of Eu doped transparent $\text{CaF}_2$ ceramics at different concentration. Optical Materials, 2011, 33, 735-737.	1.7	47
8	Semiconductor nanoparticles sensitized $\text{TiO}_2$ nanotubes for high efficiency solar cell devices. Renewable and Sustainable Energy Reviews, 2016, 57, 1307-1321.	8.2	44
9	Influence of different stabilizers on the optical and nonlinear optical properties of CdTe nanoparticles. Optics Communications, 2011, 284, 2900-2904.	1.0	43
10	Surface and bulk properties of $\text{CuGaSe}_2$ thin films. Journal of Physics and Chemistry of Solids, 2003, 64, 1553-1557.	1.9	41
11	Photoluminescence properties of $\text{Eu}^{3+}:\text{RbGd}(\text{WO}_4)_2$ red phosphors prepared by sol-gel method. Journal of Luminescence, 2016, 170, 825-834.	1.5	40
12	Sol-gel synthesis and characterizations of crystalline $\text{NaGd}(\text{WO}_4)_2$ powder for anisotropic transparent ceramic laser application. Optical Materials, 2013, 35, 740-743.	1.7	37
13	Growth and characterization of metal ions and dyes doped KDP single crystals for laser applications. Materials Research Bulletin, 2008, 43, 1716-1723.	2.7	34
14	Photoluminescence properties of novel $\text{Sm}^{3+}$ and $\text{Dy}^{3+}$ co-activated $\text{CsGd}(\text{WO}_4)_2$ phosphors. Journal of Alloys and Compounds, 2015, 637, 350-360.	2.8	32
15	Sol-gel synthesis and photoluminescence studies on colour tuneable $\text{Dy}^{3+}/\text{Tm}^{3+}$ co-doped $\text{NaGd}(\text{WO}_4)_2$ phosphor for white light emission. Journal of Luminescence, 2015, 157, 357-364.	1.5	32
16	Czochralski growth of lead tungstate single crystals and their characterization. Journal of Crystal Growth, 1998, 183, 391-397.	0.7	31
17	Efficient energy transfer between $\text{Ce}^{3+}$ and $\text{Nd}^{3+}$ in cerium codoped Nd: YAG laser quality transparent ceramics. Journal of Alloys and Compounds, 2010, 507, 475-478.	2.8	31
18	Optimisation of the CBD CdS deposition parameters for $\text{ZnO}/\text{CdS}/\text{CuGaSe}_2/\text{Mo}$ solar cells. Journal of Physics and Chemistry of Solids, 2003, 64, 1849-1853.	1.9	30

#	ARTICLE	IF	CITATIONS
19	Growth and optical properties of Cu <sub>2</sub> ZnSn <sub>4</sub> decorated reduced graphene oxide nanocomposites. Dalton Transactions, 2015, 44, 15031-15041.	1.6	30
20	Crystal growth and characterization of KY(WO <sub>4</sub> ) <sub>2</sub> and KGd(WO <sub>4</sub> ) <sub>2</sub> for laser applications. Journal of Crystal Growth, 2006, 292, 368-372.	0.7	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.	0.6	27
22	The role of potassium tellurite as tellurium source in mercaptoacetic acid-capped CdTe nanoparticles. Current Applied Physics, 2010, 10, 317-322.	1.1	27
23	Synthesis of thiol modified CdSe nanoparticles/P3HT blends for hybrid solar cell structures. Materials Science in Semiconductor Processing, 2014, 22, 44-49.	1.9	27
24	Luminescence characterization of sol-gel derived Pr <sup>3+</sup> doped NaGd(WO <sub>4</sub> ) <sub>2</sub> phosphors for solid state lighting applications. Materials Chemistry and Physics, 2016, 179, 295-303.	2.0	27
25	Growth and optical characterization of colloidal CdTe nanoparticles capped by a bifunctional molecule. Physica B: Condensed Matter, 2010, 405, 3279-3283.	1.3	26
26	Efficient energy transfer between Ce <sup>3+</sup> /Cr <sup>3+</sup> and Nd <sup>3+</sup> ions in transparent Nd/Ce/Cr:YAG ceramics. Optical Materials, 2011, 34, 303-307.	1.7	26
27	Influence of pH and microwave calcination on the morphology of KGd(WO <sub>4</sub> ) <sub>2</sub> particles derived by Pechini Sol-Gel method. Journal of Sol-Gel Science and Technology, 2011, 58, 419-426.	1.1	26
28	Novel KGd <sup>1-x-y</sup> Eu <sup>x</sup> Bi <sup>y</sup> (W <sub>1-z</sub> Mo <sub>z</sub> O <sub>4</sub> ) <sub>2</sub> nanocrystalline red phosphors for tricolor white LEDs. Journal of Luminescence, 2013, 134, 244-250.	1.5	25
29	Room temperature ferromagnetic behavior, linear and nonlinear optical properties of KNbO <sub>3</sub> microrods. Ceramics International, 2018, 44, 3297-3306.	2.3	25
30	Role of co-sensitization in dye-sensitized and quantum dot-sensitized solar cells. SN Applied Sciences, 2019, 1, 1.	1.5	25
31	Synthesis and photoluminescence properties of Sm <sup>3+</sup> doped LiGd(WO <sub>4</sub> ) <sub>2</sub> phosphors with high color purity. Optical Materials, 2020, 102, 109804.	1.7	25
32	Photoluminescence properties of sub-micron NaGd <sup>1-x</sup> Eu <sup>x</sup> (WO <sub>4</sub> ) <sub>2</sub> red phosphor for solid state lightings application: Derived by different synthesis routes. Superlattices and Microstructures, 2016, 93, 308-321.	1.4	23
33	Growth and characterization of an organometallic tri-allylthiourea complex nonlinear optical crystals. Journal of Crystal Growth, 2008, 310, 2050-2057.	0.7	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.	1.7	21
35	Investigation of swift heavy ion irradiation effects in CdTe crystals. Journal Physics D: Applied Physics, 2006, 39, 2707-2710.	1.3	21
36	Effect of Sodium Fluoroborate (NaBF <sub>4</sub> ) Doping on the NLO Properties of L-Histidine Single Crystals. Crystal Growth and Design, 2007, 7, 1695-1698.	1.4	21

#	ARTICLE	IF	CITATIONS
37	Sol-gel synthesis and luminescent properties of $\text{Eu}^{3+}:\text{CsGd}(\text{WO}_4)_2$ red emitting phosphors. Journal of Luminescence, 2014, 146, 458-463.	1.5	21
38	Optical characterization of ferroelectric glycinium phosphite single crystals. Journal of Alloys and Compounds, 2010, 490, 342-349.	2.8	20
39	Progress on synthesis and applications of hybrid perovskite semiconductor nanomaterials-A review. Synthetic Metals, 2018, 246, 64-95.	2.1	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.	0.8	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.	0.7	19
42	$\text{SiO}_2/\text{KGd}(\text{WO}_4)_2:\text{Eu}^{3+}$ composite luminescent nanoparticles: Synthesis and characterization. Materials Chemistry and Physics, 2012, 135, 1115-1121.	2.0	19
43	Effect of rare earth ions on the properties of glycine phosphite single crystals. Journal of Crystal Growth, 2013, 362, 343-348.	0.7	19
44	Electrodeposition of CdTe by potentiostatic and periodic pulse techniques. Thin Solid Films, 1991, 202, 67-75.	0.8	17
45	Some aspects on the growth of lead molybdate single crystals and their characterization. Materials Chemistry and Physics, 1997, 49, 120-123.	2.0	17
46	Crystal growth of pure and doped- $\text{KGd}(\text{WO}_4)_2$ and their characterization for laser applications. Journal of Crystal Growth, 2005, 275, e2117-e2121.	0.7	17
47	Influence of ultrasonication in CdS thin film deposition in PCD technique. Materials Letters, 2005, 59, 1795-1800.	1.3	17
48	Synthesis and characterization of monoclinic $\text{KGd}(\text{WO}_4)_2$ particles for non-cubic transparent ceramics. Optical Materials, 2013, 35, 753-756.	1.7	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.	1.9	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.	1.9	16
51	Bulk growth of InSb crystals for infrared device applications. Journal of Crystal Growth, 1999, 200, 96-100.	0.7	15
52	Growth of homogeneous polycrystalline $\text{Si}_{1-x}\text{Ge}_x$ and $\text{Mg}_2\text{Si}_{1-x}\text{Ge}_x$ for thermoelectric application. Thin Solid Films, 2011, 519, 8532-8537.	0.8	15
53	A controlled approach for synthesizing $\text{CdTe}@\text{CrOOH}$ (core-shell) composite nanoparticles. Current Applied Physics, 2011, 11, 926-932.	1.1	15
54	Investigation of structural and luminescent properties of $\text{Pr}^{3+}$ activated $\text{CsGd}(\text{WO}_4)_2$ by sol-gel synthesis. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 762-767.	1.7	15

#	ARTICLE	IF	CITATIONS
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. <i>Materials Science in Semiconductor Processing</i> , 2017, 67, 152-174.	1.9	15
56	Composition and growth procedure-dependent properties of electrodeposited CuInSe <sub>2</sub> thin films. <i>Journal of Crystal Growth</i> , 2005, 275, e1241-e1246.	0.7	14
57	Influence of swift ions and proton implantation on the formation of optical waveguides in lithium niobate. <i>Journal of Applied Physics</i> , 2007, 102, 084905.	1.1	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. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 59-67.	2.0	14
59	Synthesis, growth and characterization of an organometallic complex tri-allylthiourea cadmium bromide single crystals. <i>Current Applied Physics</i> , 2010, 10, 858-865.	1.1	14
60	Effect of dysprosium active ions on spectral properties of KGW single crystals. <i>Journal of Alloys and Compounds</i> , 2011, 509, 177-180.	2.8	14
61	Colloidal synthesis of copper cadmium sulphide (CuCdS <sub>2</sub> ) nanoparticles and its structural, optical and morphological properties. <i>Materials Science in Semiconductor Processing</i> , 2017, 66, 123-130.	1.9	14
62	Electrocrystallization and characterization of CuInSe <sub>2</sub> thin films. <i>Materials Chemistry and Physics</i> , 1995, 42, 210-213.	2.0	13
63	Growth, phase analysis and mechanical properties of InSb <sub>1-x</sub> Bi <sub>x</sub> crystals. <i>Materials Chemistry and Physics</i> , 2000, 66, 17-21.	2.0	13
64	Investigation of swift heavy ion irradiation effects on Au/CdTe and Au/CdZnTe Schottky barrier diode. <i>Radiation Measurements</i> , 2008, 43, 56-61.	0.7	13
65	Synthesis of Cu <sub>2</sub> ZnSnSe <sub>4</sub> hierarchical nanostructures by colloidal method. <i>Optik</i> , 2016, 127, 10360-10365.	1.4	13
66	Thin film deposition and characterization of CuInSe <sub>2</sub> . <i>Thin Solid Films</i> , 1991, 198, 269-278.	0.8	12
67	Crystal growth and characterization of sucrose single crystals. <i>Materials Chemistry and Physics</i> , 1997, 49, 83-86.	2.0	12
68	A study of the optical and mechanical properties of PbWO <sub>4</sub> single crystals. <i>Journal of Crystal Growth</i> , 1998, 191, 130-134.	0.7	12
69	Effect of co-sensitization of CdSe nanoparticles with N3 dye on TiO <sub>2</sub> nanotubes. <i>Solar Energy</i> , 2014, 106, 136-142.	2.9	12
70	X-ray photoelectron spectroscopic studies of electrodeposited mercury cadmium telluride semiconductor thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 765-771.	1.9	11
71	X-ray photoelectron spectroscopy, high-resolution X-ray diffraction and refractive index analyses of Ti-doped lithium niobate (Ti:LiNbO <sub>3</sub> ) nonlinear optical single crystal. <i>Pramana - Journal of Physics</i> , 2010, 75, 1035-1040.	0.9	11
72	Characterization of paramagnetic KHo(WO <sub>4</sub> ) <sub>2</sub> nanocrystals: Synthesized by polymeric mixed-metal precursor sol-gel method. <i>Journal of Alloys and Compounds</i> , 2011, 509, 9890-9896.	2.8	11

#	ARTICLE	IF	CITATIONS
73	Hydrothermal synthesis and characterization of CuInSe <sub>2</sub> nanoparticles using ethylenediamine as capping agent. <i>Solar Energy</i> , 2014, 106, 177-183.	2.9	11
74	Synthesis and characterization of hexagonal faceted copper sulfide (Cu <sub>1.8</sub> S) nanodisks. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 203-208.	1.9	11
75	Electrodeposition of Cd <sub>1-x</sub> Se <sub>x</sub> Te <sub>1-x</sub> by periodic pulse technique. <i>Journal of Crystal Growth</i> , 1991, 110, 423-428.	0.7	10
76	Photoconductivity studies of CdSe <sub>1-x</sub> Te <sub>x</sub> thin films as a function of doping concentration. <i>Bulletin of Materials Science</i> , 1996, 19, 437-442.	0.8	10
77	Quality assessment of Bridgman-grown CdTe single crystals using double-crystal X-ray diffractometry (DCD) and synchrotron radiation. <i>Journal of Crystal Growth</i> , 2000, 210, 193-197.	0.7	10
78	Growth of two-dimensional KGd(WO <sub>4</sub> ) <sub>2</sub> nanorods by modified sol-gel Pechini method. <i>Optical Materials</i> , 2010, 32, 1321-1324.	1.7	10
79	Enhanced efficiency of luminescence with stoichiometry control in LiGd(W <sub>1-x</sub> Mo <sub>x</sub> O <sub>4</sub> ) <sub>2</sub> :Eu <sup>3+</sup> red phosphors. <i>Journal of Crystal Growth</i> , 2017, 468, 766-769.	0.7	10
80	Defect distribution and morphology development of SiGe layers grown on Si(100) substrates by LPE. <i>Thin Solid Films</i> , 1998, 336, 116-119.	0.8	9
81	Interband transitions in bismuth germanate crystals grown from the melts of several [Ge/Bi] ratios. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 1243.	0.9	9
82	Defect analysis in Czochralski grown Bi <sub>12</sub> SiO <sub>20</sub> crystals. <i>Journal of Crystal Growth</i> , 2001, 229, 233-237.	0.7	9
83	Growth and characterization of an organometallic nonlinear optical material tri-allylthiourea cadmium chloride (ATCC). <i>Materials Chemistry and Physics</i> , 2008, 107, 23-27.	2.0	9
84	Spectral and Morphological Studies of Nanocrystalline Silicon Thin Films Synthesized by PECVD for Solar Cells. <i>Silicon</i> , 2010, 2, 7-17.	1.8	9
85	Crystal growth, structural perfection, phase transition, optical, and etching studies of doped glycine phosphite ferroelectric single crystals. <i>Journal of Alloys and Compounds</i> , 2010, 505, 268-272.	2.8	9
86	Growth, vibrational and luminescence analysis of monoclinic KGd(1-x)Prx(WO <sub>4</sub> ) <sub>2</sub> (x=0.005, 0.02, 0.05) single crystals. <i>Journal of Crystal Growth</i> , 2013, 362, 319-323.	0.7	9
87	Size dependence of upconversion photoluminescence in MPA capped CdTe quantum dots: Existence of upconversion bright point. <i>Journal of Luminescence</i> , 2016, 169, 308-312.	1.5	9
88	DFT and TD-DFT Calculations of Some Metal Free Phthalonitrile Derivatives for Enhancement of the Dye Sensitized Solar Cells. <i>Acta Physica Polonica A</i> , 2011, 119, 395-404.	0.2	9
89	Vertical Bridgman growth of InSb <sub>1-x</sub> Bi <sub>x</sub> crystals for LWIR applications. <i>Journal of Materials Science Letters</i> , 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. <i>Crystal Research and Technology</i> , 2007, 42, 838-843.	0.6	8

#	ARTICLE	IF	CITATIONS
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.	2.8	8
92	Synthesis, crystal growth, physio-chemical characterization and quantum chemical calculations of NLO active metal-organic crystal: dibromo(4-hydroxy-L-proline)cadmium(II) for non-linear optical applications. New Journal of Chemistry, 2018, 42, 17464-17477.	1.4	8
93	Ligand assisted tunability of morphological and optical properties of copper sulfide nanocrystals. Materials Science in Semiconductor Processing, 2019, 104, 104685.	1.9	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.	0.7	7
95	Effect of ligand exchange in optical and morphological properties of CdTe nanoparticles/P3HT blend. Solar Energy, 2014, 106, 151-158.	2.9	7
96	Facile synthesis and transformation of Te nanorods to CdTe nanoparticles. Materials Science in Semiconductor Processing, 2014, 27, 12-18.	1.9	7
97	Structural, Morphological, Vibrational, and Photoluminescence Study of Sol-Gel-Synthesized Tm <sup>3+</sup> :NaGd(WO <sub>4</sub> ) <sub>2</sub> Blue Phosphors. Journal of Electronic Materials, 2015, 44, 4199-4206.	1.0	7
98	Surface-treated Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoflakes as Pt-free inexpensive and effective counter electrode in DSSC. Journal of Materials Science: Materials in Electronics, 2020, 31, 18164-18174.	1.1	7
99	Optical properties of thiol-stabilised CdTe nanoparticles. International Journal of Nanoparticles, 2009, 2, 20.	0.1	6
100	Influence of dopant concentration on the structural and optical characteristics in Ti doped (2 and) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.7	6
101	Synthesis, structural and vibrational studies on mixed alkali metal gadolinium double tungstate, K <sub>1-x</sub> Na <sub>x</sub> Gd(WO <sub>4</sub> ) <sub>2</sub> . Optical Materials, 2013, 35, 735-739.	1.7	6
102	Synthesis of oleylamine-capped Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> nanoparticles using 1-dodecanethiol as sulfur source. Japanese Journal of Applied Physics, 2015, 54, 08KA10.	0.8	6
103	Structural, morphological, optical and electrical properties of Cu <sub>0.87</sub> Se thin films coated by electron beam evaporation method. Applied Physics A: Materials Science and Processing, 2015, 120, 1113-1120.	1.1	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.	1.9	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.	0.7	6
106	Exploration of photoanode characteristics of a mixed ferroelectric ZnSnO <sub>3</sub> and semiconducting Zn <sub>2</sub> SnO <sub>4</sub> phase for photovoltaic applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 15106-15111.	1.1	6
107	Effect of CH <sub>3</sub> NH <sub>3</sub> vapour evaporation temperature on the quality of the lead-free bismuth based perovskites thin-films. Materials Research Express, 2019, 6, 066418.	0.8	6
108	Studies on Schottky Barrier Diodes Fabricated using Single-Crystal Wafers of Ga <sub>2</sub> O <sub>3</sub> Grown by the Optical Floating Zone Technique. Physica Status Solidi (B): Basic Research, 2022, 259, 2100496.	0.7	6



#	ARTICLE	IF	CITATIONS
109	Growth of inclusion-free InSb crystals by vertical Bridgman method. Journal of Crystal Growth, 2000, 211, 207-210.	0.7	5
110	Growth and characterization of Ytterbium doped $\text{KGd}(\text{WO}_4)_2$ single crystal. Crystal Research and Technology, 2008, 43, 1036-1040.	0.6	5
111	Aqueous synthesis and characterization of $\text{CdTe@Co}(\text{OH})_2$ (core-shell) composite nanoparticles. Materials Chemistry and Physics, 2010, 124, 592-599.	2.0	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.	1.3	5
113	Selective synthesis and characterization of $\text{CdTe@Mn}(\text{OH})_2$ (core-shell) composite nanoparticles. Journal of Alloys and Compounds, 2010, 496, 589-594.	2.8	5
114	Structural, compositional and optical analysis of $\text{InAs}_x\text{Sb}_{1-x}$ crystals grown by vertical directional solidification method. Journal of Alloys and Compounds, 2013, 548, 23-26.	2.8	5
115	High Power Factor of Ga-Doped Compositionally Homogeneous $\text{Si}_{0.68}\text{Ge}_{0.32}$ Bulk Crystal Grown by the Vertical Temperature Gradient Freezing Method. Crystal Growth and Design, 2015, 15, 1380-1388.	1.4	5
116	Photo-enhanced catalytic activity of spray-coated $\text{Cu}_2\text{SnSe}_3$ nanoparticle counter electrode for dye-sensitized solar cells. Physica Status Solidi - Rapid Research Letters, 2016, 10, 739-744.	1.2	5
117	Impact of $\text{Eu}^{3+}$ concentration on the fluorescence properties of the $\text{LiGd}(\text{WO}_4)_2$ novel red phosphors. Solid State Sciences, 2019, 98, 106028.	1.5	5
118	Solution processed $\text{Cu}_2\text{ZnSnSe}_4$ nanoink for inexpensive Pt-free counter electrode in dye-sensitized solar cells. Solid State Sciences, 2021, 116, 106612.	1.5	5
119	Morphological studies on electrodeposited mercury cadmium telluride thin films. Materials Chemistry and Physics, 1999, 59, 107-113.	2.0	4
120	Stoichiometry and doping induced modifications in the properties of $\text{Bi}_{12}\text{SiO}_{20}$ single crystals. Journal of Crystal Growth, 2005, 275, e681-e686.	0.7	4
121	High energy Sn ion implantation induced effects in InSb substrates. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 179-182.	0.6	4
122	Investigation of $\text{CdTe}$ and $\text{Cd}_{1-x}\text{Zn}_x\text{Te}$ Schottky Barrier Diode Structure Based $\text{I}^3\text{-Ray}$ Detectors. Materials and Manufacturing Processes, 2007, 22, 375-378.	2.7	4
123	$\text{CdTe@Cu}(\text{OH})_2$ nanocomposite: Aqueous synthesis and characterization. Journal of Solid State Chemistry, 2011, 184, 1135-1140.	1.4	4
124	Improvement in Structural, Dielectric, Ferroelectric and Mechanical Properties in Metal Ions Doped Glycine Phosphite Single Crystals. Ferroelectrics, 2012, 437, 126-136.	0.3	4
125	Comparative analysis of $\text{LiGd}(\text{WO}_4)_2:\text{Eu}^{3+}$ phosphors derived by sol gel and hydrothermal methods. Journal of Crystal Growth, 2017, 468, 159-161.	0.7	4
126	Influence of Capping Ligand and Synthesis Method on Structure and Morphology of Aqueous Phase Synthesized $\text{CuInSe}_2$ Nanoparticles. Journal of Electronic Materials, 2017, 46, 296-305.	1.0	4



#	ARTICLE	IF	CITATIONS
127	Synthesis and Characterization of amine capped Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) nanoparticles (NPs) for Solar cell application. <i>Materials Today: Proceedings</i> , 2017, 4, 12484-12490.	0.9	4
128	Influence of different sulfur sources on the phase formation of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) nanoparticles (NPs). <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9751-9756.	1.1	4
129	Ligand exchange in Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticles and its effect on counter electrode performance in dye-sensitized solar cells. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	0.8	4
130	Developments in Colloidal Synthesis of Cu <sub>2</sub> S (0 ≤ x ≤ 1) Nanocrystals An Overview. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3659-3682.	0.9	4
131	Thermal stability and environmental effects on CuGaSe <sub>2</sub> thin film solar cells. <i>Journal of Crystal Growth</i> , 2005, 275, e1235-e1240.	0.7	3
132	Photovoltaic effect and photoconductivity in Sc-doped near-stoichiometric LiNbO <sub>3</sub> crystals. <i>Optical Materials</i> , 2008, 31, 280-283.	1.7	3
133	Nano hillock and complex crater formation by low-energy proton implantation with incident angle into lithium niobate single crystal. <i>Radiation Effects and Defects in Solids</i> , 2011, 166, 258-264.	0.4	3
134	Analysis of dissolution and growth process of SiGe alloy semiconductor based on penetrated X-ray intensities. <i>Journal of Alloys and Compounds</i> , 2014, 590, 96-101.	2.8	3
135	Colloidal synthesis and characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoplates. <i>Journal of Semiconductors</i> , 2017, 38, 033007.	2.0	3
136	Coordinating Effect of Non-phosphine Solvents on the Structure and Morphological Properties of Cu <sub>2</sub> SnSe <sub>3</sub> (CTSe) Nanoparticles Synthesized by Hot-Injection Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 477-482.	1.9	3
137	Effect of different nanostructures of Cu <sub>2</sub> ZnSnS <sub>4</sub> on visible light-driven photocatalytic degradation of organic pollutants. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 894-906.	1.1	3
138	Electrodeposition kinetics of gallium arsenide. <i>Bulletin of Materials Science</i> , 1990, 13, 43-49.	0.8	2
139	Growth and characterization of pure and doped KY(WO <sub>4</sub> ) <sub>2</sub> crystals. <i>Journal of Crystal Growth</i> , 2005, 275, e1901-e1905.	0.7	2
140	Growth and Characterization of InAs <sub>x</sub> Sb <sub>1-x</sub> Bulk Crystals and Growth Rate Measurements. <i>Materials and Manufacturing Processes</i> , 2007, 22, 404-408.	2.7	2
141	Investigation of Modified Bridgman Grown CdTe Crystals and Their Characterization. <i>Materials and Manufacturing Processes</i> , 2008, 23, 484-488.	2.7	2
142	Electronic structure of URh <sub>3</sub> up to 40 GPa. <i>Journal of Physics: Conference Series</i> , 2010, 215, 012115.	0.3	2
143	Recharging processes, radiation induced strain and changes of OH bands under H <sup>+</sup> ion implantation in Ti doped lithium niobate. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 172-177.	0.6	2
144	Synthesis, crystal growth and characterization of a metal-organic nonlinear optical tri-allylthiourea mercury chloride single crystals. <i>Optics Communications</i> , 2010, 283, 4368-4371.	1.0	2

#	ARTICLE	IF	CITATIONS
145	Nucleation kinetics and growth aspects of glycine phosphite ferroelectric single crystals. Materials Chemistry and Physics, 2011, 126, 381-385.	2.0	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.	1.5	2
147	Synthesis and Efficient Phase Transfer of CdSe Nanoparticles for Hybrid Solar Cell Applications. Conference Papers in Energy, 2013, 2013, 1-3.	0.5	2
148	Size-independent peak shift between normal and upconversion photoluminescence in MPA-capped CdTe nanoparticles. Pramana - Journal of Physics, 2014, 82, 353-358.	0.9	2
149	Crystal structure controlled synthesis and characterization of copper sulfide nanoparticles. AIP Conference Proceedings, 2016, , .	0.3	2
150	Role of phosphine free solvents in structural and morphological properties of CuInSe <sub>2</sub> nanoparticles. Journal of Materials Science: Materials in Electronics, 2016, 27, 12418-12426.	1.1	2
151	Influence of Morphologyâ€Controlled Cu <sub>2</sub> ZnSnSe <sub>4</sub> Nanoparticles for Environmental Remediation Process under Visible Light. Physica Status Solidi (B): Basic Research, 2022, 259, .	0.7	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.	1.1	1
154	Crystal growth and characterization of Deuterated Glycine Phosphite single crystals. Materials Letters, 2010, 64, 2142-2144.	1.3	1
155	Linear and Nonlinear Optical Properties of Mercaptoacetic Acid-Capped CdTe Nanoparticles by Z-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> ) <sub>2</sub> crystalline powders by modified pechini method. , 2013, , .		1
159	Investigation on the luminescence properties of Eu <sup>3+</sup> /Tb <sup>3+</sup> :Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> phosphors. AIP Conference Proceedings, 2015, , .	0.3	1
160	Synthesis, vibrational and luminescence studies on Eu <sup>3+</sup> :KY(WO <sub>4</sub> ) <sub>2</sub> red phosphors. AIP Conference Proceedings, 2015, , .	0.3	1
161	Synthesis and Magnetic Characterization of SolGelâ€Derived Submicrometer NaGd(WO <sub>4</sub> ) <sub>2</sub> . International Journal of Applied Ceramic Technology, 2016, 13, 876-883.	1.1	1
162	Top Seeded Solution Growth, Structural and Vibrational Analyses of K <sub>1-x</sub> Na <sub>x</sub> Gd(WO <sub>4</sub> ) <sub>2</sub> (0.0â‰‰0.2) Single Crystals. Journal of Electronic Materials, 2016, 45, 4460-4467.	1.0	1

#	ARTICLE	IF	CITATIONS
163	Synthesis, crystal structure, thermal and nonlinear optical properties of new metal-organic single crystal: Tetrabromo (piperazinium) zincate (II) (TBPZ). AIP Conference Proceedings, 2018, , .	0.3	1
164	Gas-Sensing Characteristics of SrFeO <sub>3</sub> Thin Film Probed by a Homemade Apparatus. Journal of Electronic Materials, 2018, 47, 4678-4682.	1.0	1
165	A modified high-temperature vapour deposition technique for fabricating $\text{CH}_3\text{NH}_3\text{PbI}_3$ thin films under an ambient atmosphere. Bulletin of Materials Science, 2019, 42, 1.	0.8	1
166	Structural Investigations on Lithium Niobate Grown by Czochralski Technique. Journal of Applied Sciences, 2005, 5, 1744-1748.	0.1	1
167	Novel "Photochemical deposition" and conventional "Electrochemical deposition" of CdS and Hg <sub>x</sub> Cd <sub>1-x</sub> Te thin films and their characterization for solar cell device applications. Materials Research Society Symposia Proceedings, 2001, 668, 1.	0.1	0
168	Polymerized Complex Sol-Gel Synthesis, Structural and Optical Properties of Monoclinic Eu <sup>3+</sup> Doped KGd(WO <sub>4</sub> ) <sub>2</sub> Crystalline Red Phosphors. , 2011, , .		0
169	Synthesis structural and luminescence analysis of NaGd <sub>1-x</sub> Tb <sub>x</sub> (WO <sub>4</sub> ) <sub>2</sub> solid solution for white LED application. , 2013, , .		0
170	Synthesis and characterization of Eu <sup>3+</sup> :YAG nanopowder by precipitation method. , 2013, , .		0
171	The effect of deuteration and doping on the phase transition temperature of grown glycine phosphite single crystals. , 2014, , .		0
172	Colloidal synthesis and characterisation of oleic acid capped TiO <sub>2</sub> nanorods. International Journal of Nanotechnology, 2017, 14, 710.	0.1	0