

Mukannan Arivanandhan

List of Publications by Year in descending order

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papers

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201385

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173
all docs

173
docs citations

173
times ranked

3556
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene decorated with MoS ₂ nanosheets: a synergetic energy storage composite electrode for supercapacitor applications. Dalton Transactions, 2016, 45, 2637-2646.	1.6	200
2	Synthesis and Electrochemical Studies of rGO/ZnO Nanocomposite for Supercapacitor Application. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2046-2055.	1.9	113
3	Facile synthesis of graphene-CeO ₂ nanocomposites with enhanced electrochemical properties for supercapacitors. Dalton Transactions, 2015, 44, 9901-9908.	1.6	97
4	Synthesis, structural, dielectric, magnetic and optical properties of Cr substituted CoFe ₂ O ₄ nanoparticles by co-precipitation method. Journal of Magnetism and Magnetic Materials, 2014, 362, 122-129.	1.0	83
5	Facile synthesis of RuO ₂ nanoparticles anchored on graphene nanosheets for high performance composite electrode for supercapacitor applications. Journal of Physics and Chemistry of Solids, 2018, 121, 339-349.	1.9	76
6	Size and Surface Effects of Ce-Doped NiO and Co ₃ O ₄ Nanostructures on Ferromagnetism Behavior Prepared by the Microwave Route. Journal of Physical Chemistry C, 2014, 118, 23335-23348.	1.5	65
7	Recent advances in rare earth-based borate single crystals: Potential materials for nonlinear optical and laser applications. Progress in Crystal Growth and Characterization of Materials, 2013, 59, 113-132.	1.8	59
8	Role of SDS surfactant concentrations on the structural, morphological, dielectric and magnetic properties of CoFe ₂ O ₄ nanoparticles. RSC Advances, 2015, 5, 27060-27068.	1.7	57
9	Characterization of spray pyrolytically deposited high mobility praseodymium doped CdO thin films. Ceramics International, 2016, 42, 12675-12685.	2.3	53
10	CTAB cationic surfactant assisted synthesis of CoFe ₂ O ₄ magnetic nanoparticles. Ceramics International, 2016, 42, 19320-19328.	2.3	52
11	Functional properties of amine-passivated ZnO nanostructures and dye-sensitized solar cell characteristics. Chemical Engineering Journal, 2012, 213, 70-77.	6.6	50
12	Niobium pentoxide (Nb ₂ O ₅) thin films: rf Power and substrate temperature induced changes in physical properties. Optik, 2015, 126, 1945-1950.	1.4	48
13	Effect of Mn doping on the electrical and optical properties of SnO ₂ thin films deposited by chemical spray pyrolysis technique. Thin Solid Films, 2016, 598, 195-203.	0.8	42
14	Efficient Photoreduction of Hexavalent Chromium Using the Reduced Graphene Oxide@Sm ₂ MoO ₆ @TiO ₂ Catalyst under Visible Light Illumination. ACS Omega, 2020, 5, 6414-6422.	1.6	42
15	Investigation on ozone-sensing characteristics of surface sensitive hybrid rGO/WO ₃ nanocomposite films at ambient temperature. Advanced Composites and Hybrid Materials, 2020, 3, 16-30.	9.9	42
16	Highly textured ZnO thin films: a novel economical preparation and approachment for optical devices, UV lasers and green LEDs. Materials Chemistry and Physics, 2004, 85, 257-262.	2.0	41
17	A novel way of modifying the thermal gradient in Vertical Bridgman-Stockbarger Technique and studies on its effect on the growth of benzophenone single crystals. Crystal Research and Technology, 2004, 39, 692-698.	0.6	39
18	Shape controlled synthesis of hierarchical nickel sulfide by the hydrothermal method. Dalton Transactions, 2014, 43, 17445-17452.	1.6	38

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19	Rational fabrication of needle with spherical shape ternary reduced Graphene Oxide-HoVO ₄ -TiO ₂ photocatalyst for degradation of ibuprofen under visible light. Applied Surface Science, 2020, 513, 145803.	3.1	37
20	A facile preparation, performance and emission analysis of pongamia oil based novel biodiesel in diesel engine with CeO ₂ :Gd nanoparticles. Fuel, 2019, 255, 115756.	3.4	36
21	Antimonene nanosheets with enhanced electrochemical performance for energy storage applications. Dalton Transactions, 2020, 49, 13717-13725.	1.6	33
22	An investigation of flower shaped NiO nanostructures by microwave and hydrothermal route. Journal of Materials Science: Materials in Electronics, 2014, 25, 5231-5240.	1.1	32
23	Effect of PVP concentrations on the structural, morphological, dielectric and magnetic properties of CoFe ₂ O ₄ magnetic nanoparticles. Nano Structures Nano Objects, 2017, 11, 112-123.	1.9	32
24	Defect assisted room temperature ferromagnetism on rf sputtered Mn doped CeO ₂ thin films. Ceramics International, 2017, 43, 399-406.	2.3	31
25	Surfactant-Free Synthesis of Nb ₂ O ₅ Nanoparticles Anchored Graphene Nanocomposites with Enhanced Electrochemical Performance for Supercapacitor Electrodes. Nanomaterials, 2020, 10, 160.	1.9	31
26	Growth of urea doped benzophenone single crystal for nonlinear optical applications. Optical Materials, 2006, 28, 324-330.	1.7	29
27	A Facile Synthesis of Ferrocene Functionalized Graphene Oxide Nanocomposite for Electrochemical Sensing of Lead. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1021-1028.	1.9	29
28	Enhanced dielectric and magnetic properties of polystyrene added CoFe ₂ O ₄ magnetic nanoparticles. Journal of Physics and Chemistry of Solids, 2017, 102, 1-11.	1.9	28
29	CuO/MoS ₂ nanocomposites for rapid and high sensitive non-enzymatic glucose sensors. Ceramics International, 2020, 46, 16879-16885.	2.3	28
30	Directional growth of organic NLO crystal by different growth methods: A comparative study by means of XRD, HRXRD and laser damage threshold. Journal of Crystal Growth, 2008, 310, 4587-4592.	0.7	27
31	Structural and magnetic properties of cobalt-doped iron oxide nanoparticles prepared by solution combustion method for biomedical applications. International Journal of Nanomedicine, 2015, 10 Suppl 1, 189.	3.3	27
32	Enhancing effects of Te substitution on the thermoelectric power factor of nanostructured SnSe _{1-x} Te _x . Physical Chemistry Chemical Physics, 2019, 21, 15725-15733.	1.3	25
33	Growth of In _x Ga _{1-x} Sb alloy semiconductor at the International Space Station (ISS) and comparison with terrestrial experiments. Npj Microgravity, 2015, 1, 15011.	1.9	24
34	Facile preparation of Mn ₃ O ₄ /rGO hybrid nanocomposite by sol-gel in situ reduction method with enhanced energy storage performance for supercapacitor applications. Journal of Sol-Gel Science and Technology, 2020, 93, 703-713.	1.1	24
35	Green approach to the preparation of reduced graphene oxide for photocatalytic and supercapacitor application. Optik, 2019, 190, 21-27.	1.4	23
36	Synthesis of wurtzite ZnS nanorods by microwave assisted chemical route. Materials Letters, 2012, 66, 276-279.	1.3	22

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37	Impact of graphene on the enhancement of electrochemical and photocatalytic performance of Gd ₂ O ₃ - Graphene nanocomposites. <i>Solid State Sciences</i> , 2018, 83, 171-180.	1.5	22
38	Enhanced electrochemical performance of $\text{MoO}_3/\text{graphene}$ nanocomposites prepared by an in situ microwave irradiation technique for energy storage applications. <i>RSC Advances</i> , 2020, 10, 22836-22847.	1.7	22
39	Solvothermal preparation of nano-HgS from a precursor, bis(dibenzylthiocarbamate)mercury(II). <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	21
40	Tailoring bismuth telluride nanostructures using a scalable sintering process and their thermoelectric properties. <i>CrystEngComm</i> , 2014, 16, 7956-7962.	1.3	21
41	Production, characterization and effectiveness of cellulose acetate functionalized ZnO nanocomposite adsorbent for the removal of Se (VI) ions from aqueous media. <i>Environmental Science and Pollution Research</i> , 2019, 26, 528-543.	2.7	21
42	Growth of organic single crystals by transparent vertical Bridgman technique and its characterization. <i>Thin Solid Films</i> , 2005, 477, 2-6.	0.8	20
43	Templated synthesis of atomically thin platy hematite nanoparticles within a layered silicate exhibiting efficient photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5166-5171.	5.2	20
44	Molybdenum Oxide/Graphene Nanocomposite Electrodes with Enhanced Capacitive Performance for Supercapacitor Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 50-62.	1.9	20
45	A Facile Synthesis of Cellulose Acetate Functionalized Zinc Oxide Nanocomposite for Electrochemical Sensing of Cadmium ions. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 989-999.	1.9	20
46	Enhanced thermoelectric performance of band structure engineered $\text{GeSe}_{1-x}\text{Te}_x$ alloys. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1734-1746.	2.5	20
47	Ethyl p-amino benzoate (EPAB): A novel organic non-linear optical material for optical devices. <i>Optics Communications</i> , 2005, 251, 172-178.	1.0	19
48	Chemical synthesis of ZnO hexagonal thin nanodisks and dye-sensitized solar cell performance. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 120-122.	1.2	19
49	A facile synthesis of hybrid nanocomposites of reduced graphene oxide/ZnO and its surface modification characteristics for ozone sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3074-3086.	1.1	19
50	Effect of Gd and Nb co-substitution on enhancing the thermoelectric power factor of nanostructured SrTiO ₃ . <i>Ceramics International</i> , 2021, 47, 3201-3208.	2.3	19
51	UV-visible and near-infrared active NaGdF ₄ :Yb:Er/Ag/TiO ₂ nanocomposite for enhanced photocatalytic applications. <i>RSC Advances</i> , 2016, 6, 80655-80665.	1.7	18
52	Effects of varying indium composition on the thermoelectric properties of $\text{In}_x\text{Ga}_{1-x}\text{Sb}$ ternary alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	17
53	Optical frequency doubling in microtube Czochralski ($\frac{1}{4}$ T-CZ) grown benzophenone single crystals. <i>Journal of Crystal Growth</i> , 2005, 281, 596-603.	0.7	16
54	Ga segregation in Czochralski-Si crystal growth with B codoping. <i>Journal of Crystal Growth</i> , 2008, 310, 3335-3341.	0.7	16

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55	Effects of B and Ge codoping on minority carrier lifetime in Ga-doped Czochralski-silicon. <i>Journal of Applied Physics</i> , 2009, 106, 013721.	1.1	16
56	In-situ observations of dissolution process of GaSb into InSb melt by X-ray penetration method. <i>Journal of Crystal Growth</i> , 2010, 312, 2677-2682.	0.7	16
57	Effect of fluorine doping on the structural, optical and electrical properties of spray deposited cadmium stannate thin films. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1964-1970.	1.9	16
58	Effect of Erbium on the Photocatalytic Activity of TiO ₂ /Ag Nanocomposites under Visible Light Irradiation. <i>ChemPhysChem</i> , 2015, 16, 3084-3092.	1.0	16
59	A facile synthesis of novel μ -Fe ₂ O ₃ grafted 2D h-BN nanostructures for enhanced visible active photocatalytic applications. <i>New Journal of Chemistry</i> , 2020, 44, 12289-12298.	1.4	16
60	Growth of homogeneous polycrystalline Si _{1-x} Gex and Mg ₂ Si _{1-x} Gex for thermoelectric application. <i>Thin Solid Films</i> , 2011, 519, 8532-8537.	0.8	15
61	Investigations on the growth aspects and characterization of semiorganic nonlinear optical single crystals of l-histidine and its hydrochloride derivative. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 508-513.	2.0	15
62	Crystal growth, structural, thermal and mechanical behavior of l-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP) single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 396-402.	2.0	15
63	Synthesis and characterization of Y ₂ O ₃ -reduced graphene oxide nanocomposites for photocatalytic applications. <i>Materials Research Express</i> , 2016, 3, 075502.	0.8	15
64	High-performance electrochemical capacitor based on cuprous oxide/graphene nanocomposite electrode material synthesized by microwave irradiation method. <i>Emergent Materials</i> , 2019, 2, 495-504.	3.2	15
65	Effect of sintering temperatures on mixed phases and thermoelectric properties of nanostructured copper telluride. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155276.	2.8	15
66	Effects of solutal convection on the dissolution of GaSb into InSb melt and solute transport mechanism in InGaSb solution: Numerical simulations and in-situ observation experiments. <i>Journal of Crystal Growth</i> , 2011, 324, 157-162.	0.7	14
67	Synthesis, growth, crystal structure and characterization of a new organic NLO crystal: l-Lysine 4-nitrophenolate monohydrate (LLPNP). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 130, 416-422.	2.0	14
68	Determination of gas sensing properties of thermally evaporated WO ₃ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1389-1394.	1.1	14
69	Non linear optical studies on semiorganic single crystal: L-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP). <i>Optics and Laser Technology</i> , 2017, 92, 168-172.	2.2	14
70	Facile synthesis of pervoskite type BiYO ₃ embedded reduced graphene oxide (RGO) composite for supercapacitor applications. <i>Ceramics International</i> , 2020, 46, 3471-3478.	2.3	14
71	Effect of co-sensitization of InSb quantum dots on enhancing the photoconversion efficiency of CdS based quantum dot sensitized solar cells. <i>RSC Advances</i> , 2020, 10, 14837-14845.	1.7	14
72	Chemical Vapor Deposition of μ -HgS Nanoparticles From a Precursor, bis(cinnamyl)piperazinedithiocarbamate Mercury(II). <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015, 45, 217-224.	0.6	13

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73	Synthesis of Micro-dumbbell Shaped rGO/ZnO Composite Rods and Its Application Towards as Electrochemical Sensor for the Simultaneous Determination of Ammonia and Formaldehyde Using Hexamine and Its Structural Analysis. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 943-954.	1.9	13
74	Facile synthesis of Yb ₂ O ₃ @graphene nanocomposites for enhanced energy and environmental applications. <i>Polymer Bulletin</i> , 2020, 77, 3891-3906.	1.7	13
75	TiO ₂ nanostructures with controlled morphology for improved electrical properties of photoanodes and quantum dot sensitized solar cell characteristics. <i>Surfaces and Interfaces</i> , 2019, 17, 100350.	1.5	12
76	Homogeneous InGaSb crystal grown under microgravity using Chinese recovery satellite SJ-10. <i>Npj Microgravity</i> , 2019, 5, 8.	1.9	12
77	Microbial inhibition, growth of Li ⁺ -doped LAP single crystals and their characterization. <i>Optical Materials</i> , 2004, 26, 275-280.	1.7	11
78	Microtube-Czochralski (1/4T-CZ) growth of bulk benzophenone single crystal for nonlinear optical applications. <i>Optical Materials</i> , 2005, 27, 1864-1868.	1.7	11
79	Growth of longest ~100% oriented benzophenone single crystal from solution at ambient temperature. <i>Journal of Crystal Growth</i> , 2008, 310, 1493-1496.	0.7	11
80	Studies on the growth aspects and characterization of sodium para-nitro phenolate single crystals for nonlinear optical applications. <i>Optik</i> , 2014, 125, 5515-5518.	1.4	11
81	Investigation of directionally solidified InGaSb ternary alloys from Ga and Sb faces of GaSb(111) under prolonged microgravity at the International Space Station. <i>Npj Microgravity</i> , 2016, 2, 16026.	1.9	11
82	Synthesis and characterization of g/Ni@SiO ₂ composite for enhanced hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23249-23256.	3.8	11
83	Investigation of nano ceramics added bismuth antimony telluride for energy harvesting applications. <i>Materials Today: Proceedings</i> , 2020, 22, 879-883.	0.9	11
84	Growth aspects and characteristic properties of pure and Li-doped L-arginine acetate (LAA) single crystals: A promising nonlinear optical material. <i>Journal of Crystal Growth</i> , 2009, 311, 572-575.	0.7	10
85	Growth of Si _{1-x} Ge bulk crystals with highly homogeneous composition for thermoelectric applications. <i>Journal of Crystal Growth</i> , 2011, 318, 324-327.	0.7	10
86	The impact of Ge codoping on the enhancement of photovoltaic characteristics of B-doped Czochralski grown Si crystal. <i>Journal of Applied Physics</i> , 2012, 111, 043707.	1.1	10
87	Effects of Al composition on the secondary phase formation and thermoelectric properties of Zn _{1-x} Al _x O nanocrystals. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 122, 162-166.	1.9	10
88	Synthesis, experimental and computational spectroscopic investigations of third-order nonlinear optical material (E)-N-(benzo[d][1,3]dioxol-5-ylmethylene)benzohydrazide. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 395102.	1.3	10
89	Facile synthesis of morphology-controlled La ₃ BaSnO ₃ for the enhancement of thermoelectric power factor. <i>CrystEngComm</i> , 2020, 22, 5363-5374.	1.3	10
90	Growth, experimental and theoretical investigations on 4-hydroxy-3-methoxybenzaldehyde 5-chloro-2-hydroxybenzoic acid: A new high second order nonlinear optical material. <i>Journal of Molecular Structure</i> , 2020, 1217, 128406.	1.8	10

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91	Enhancement of thermoelectric power factor of hydrothermally synthesised SrTiO ₃ nanostructures. Materials Research Express, 2020, 7, 015094.	0.8	10
92	High minority carrier lifetime in Ga-doped Czochralski-grown silicon by Ge codoping. Applied Physics Letters, 2009, 94, .	1.5	9
93	Electrochemical Sensor Based on Fe Doped Hydroxyapatite-Carbon Nanotubes Composite for L-Dopa Detection in the Presence of Uric Acid. Journal of Nanoscience and Nanotechnology, 2016, 16, 6185-6192.	0.9	9
94	Effect of rare earth doping on the enhancement of photocatalytic performance of ceria nanocrystals under natural sunlight. Journal of Materials Science: Materials in Electronics, 2018, 29, 9564-9572.	1.1	9
95	Crystallization and re-melting of Si _{1-x} Ge _x alloy semiconductor during rapid cooling. Journal of Alloys and Compounds, 2019, 798, 493-499.	2.8	9
96	Growth, structural and optical studies of a novel nonlinear optical material: p-Toluidinium L-Tartrate. Optik, 2019, 185, 651-656.	1.4	9
97	Effect of Bismuth substitution on the enhancement of thermoelectric power factor of nanostructured Bi _x Co _{3-x} O ₄ . Ceramics International, 2019, 45, 6782-6787.	2.3	9
98	Crystal growth, structural, optical, thermal, and mechanical properties of new bis(2-amino-6-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Chinese Journal of Physics, 2020, 68, 436-460.	2.0	9
99	Metal oxide grafted graphene nanocomposites for energy storage applications. Emergent Materials, 2021, 4, 1143-1165.	3.2	9
100	Chitosan anchored zinc oxide nanocomposite as modified electrochemical sensor for the detection of Cd(II) ions. , 0, 97, 295-303.		9
101	Bulk Growth of InGaSb Alloy Semiconductor under Terrestrial Conditions: A Preliminary Study for Microgravity Experiments at ISS. Defect and Diffusion Forum, 0, 323-325, 539-544.	0.4	8
102	In-situ observation of faceted growth of benzophenone single crystals. Materials Chemistry and Physics, 2014, 144, 402-408.	2.0	8
103	The effect of hippuric acid on crystal growth, structural and optical properties of ZTS single crystals. Journal of Crystal Growth, 2014, 401, 874-877.	0.7	8
104	Orientation-dependent dissolution and growth kinetics of In _x Ga _{1-x} Sb by vertical gradient freezing method under microgravity. Journal of Crystal Growth, 2018, 496-497, 15-17.	0.7	8
105	Bifunctional investigation of ultra-small SnO ₂ nanoparticle decorated rGO for ozone sensing and supercapacitor applications. RSC Advances, 2021, 11, 856-866.	1.7	8
106	Enhancing the thermoelectric performance of nanostructured ZnSb by heterovalent bismuth substitution. Journal of Physics and Chemistry of Solids, 2022, 160, 110303.	1.9	8
107	A rutile TiO ₂ nanobundle as a precursor of an efficient visible-light photocatalyst embedded with Fe ₂ O ₃ . Inorganic Chemistry Frontiers, 2021, 8, 4423-4430.	3.0	8
108	In Situ Binder-Free and Hydrothermal Growth of Nanostructured NiCo ₂ S ₄ /Ni Electrodes for Solid-State Hybrid Supercapacitors. Energies, 2021, 14, 7114.	1.6	8

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109	Anisotropy of hardness and laser damage threshold of unidirectional organic NLO crystal in relation to the internal structure. <i>Materials Chemistry and Physics</i> , 2011, 130, 154-158.	2.0	7
110	Organic ligand assisted low temperature synthesis of lead sulfide nanocubes and its optical properties. <i>Materials Letters</i> , 2012, 71, 44-47.	1.3	7
111	Effect of solvents on the bulk growth of 4-aminobenzophenone single crystals: A potential material for blue and green lasers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 329-332.	2.0	7
112	Crystal growth, structural and optical properties of a novel benzophenone derivative: 2-Chloro 5-nitro benzophenone. <i>Optik</i> , 2016, 127, 5887-5893.	1.4	7
113	Electrical and optical properties of Co ²⁺ :SnO ₂ thin films deposited by spray pyrolysis technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1662-1669.	1.1	7
114	The effect of graphene quantum dots/ $\langle \text{ZnS} \rangle$ co-passivation on enhancing the photovoltaic performance of $\langle \text{CdS} \rangle$ quantum dot sensitized solar cells. <i>International Journal of Energy Research</i> , 2021, 45, 15879-15891.	2.2	7
115	Studies on large uniaxially grown benzophenone single crystals. <i>Crystal Research and Technology</i> , 2007, 42, 578-582.	0.6	6
116	Growth and characterization of a novel nonlinear optical borate crystal " Yttrium calcium borate (YCB). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 110, 391-394.	2.0	6
117	A Review on InGaSb Growth under Microgravity and Terrestrial Conditions Towards Future Crystal Growth Project Using Chinese Recovery Satellite SJ-10. <i>Microgravity Science and Technology</i> , 2016, 28, 143-154.	0.7	6
118	The effect of mixed solvents on solute-solvent interactions and bulk growth of 3,4-diamino benzophenone: A novel benzophenone derivative for NLO applications. <i>Optical Materials</i> , 2020, 100, 109603.	1.7	6
119	Enhancing the thermoelectric power factor of nanostructured ZnCo ₂ O ₄ by Bi substitution. <i>RSC Advances</i> , 2020, 10, 18769-18775.	1.7	6
120	Melt growth of novel organic nonlinear optical material and its characterization. <i>Materials Letters</i> , 2007, 61, 4836-4838.	1.3	5
121	Ga segregation during Czochralski-Si crystal growth with Ge codoping. <i>Journal of Crystal Growth</i> , 2010, 312, 2865-2870.	0.7	5
122	Room temperature ethanol sensing property of cubic nanostructure tungsten oxide (WO ₃). <i>AIP Conference Proceedings</i> , 2013, , .	0.3	5
123	High Power Factor of Ga-Doped Compositionally Homogeneous Si _{0.68} Ge _{0.32} Bulk Crystal Grown by the Vertical Temperature Gradient Freezing Method. <i>Crystal Growth and Design</i> , 2015, 15, 1380-1388.	1.4	5
124	<i>In situ</i> Growth of Phase-Controlled Nickel Sulfide Nanostructures on Reduced Graphene Oxide Nanosheets : A Improved Cost-effective Catalyst for 4-Nitrophenol Reduction. <i>ChemistrySelect</i> , 2017, 2, 2187-2196.	0.7	5
125	Facile synthesis of CdS Quantum dots for QDSSC with high photo current density. <i>Materials Research Express</i> , 2020, 7, 015528.	0.8	5
126	Facile synthesis and characteristics of NiMoS ₂ /rGO nanocomposites for energy and environmental application. <i>Carbon Letters</i> , 2022, 32, 753-765.	3.3	5

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127	Effect of pure and mixed solvents on the solubility, crystal growth and morphology of ethyl p-dimethylamino benzoate (EDMAB): An organic nonlinear optical material. <i>Physica B: Condensed Matter</i> , 2011, 406, 1410-1414.	1.3	4
128	Thermal properties of molten InSb, GaSb, and In _x Ga _{1-x} Sb alloy semiconductor materials in preparation for crystal growth experiments on the international space station. <i>Advances in Space Research</i> , 2014, 53, 689-695.	1.2	4
129	Fabrication of high quality, thin Ge-on-insulator layers by direct wafer-bonding for nanostructured thermoelectric devices. <i>Semiconductor Science and Technology</i> , 2017, 32, 035021.	1.0	4
130	The impact of sintering temperature on structural, morphological and thermoelectric properties of zinc titanate nanocrystals. <i>Materials Research Express</i> , 2017, 4, 075036.	0.8	4
131	Structural, Spectral, Morphological, Dielectric, Magnetic, and Optical Properties of La-Ni ions co-substituted CoFe ₂ O ₄ Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 441-453.	0.8	4
132	High Sensitive Electrochemical Nitrite Sensor Using Fe ₂ O ₃ /MoS ₂ Nanocomposites Synthesized by Facile Method. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 1564-1570.	2.0	4
133	Effect of Sb substitution on structural, morphological and electrical properties of BaSnO ₃ for thermoelectric application. <i>Physica B: Condensed Matter</i> , 2020, 597, 412387.	1.3	4
134	Effect of B ₄ C and SiC nanoparticle reinforcement on the wear behavior and surface structure of aluminum (Al6063-T6) matrix composite. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	4
135	Crystal Growth, Thermal, Mechanical and Optical Properties of a New Organic Nonlinear Optical Material: Ethyl P-Dimethylamino Benzoate (EDMAB). <i>Journal of Minerals and Materials Characterization and Engineering</i> , 2011, 10, 1-11.	0.1	4
136	A comparative analysis on growth aspects and characterization of novel benzophenone derivatives. <i>Materials Chemistry and Physics</i> , 2013, 141, 160-165.	2.0	3
137	Grown-in microdefects and photovoltaic characteristics of heavily Ge co-doped Czochralski-grown p-type silicon crystals. <i>Scripta Materialia</i> , 2013, 69, 686-689.	2.6	3
138	Germanium-doped Czochralski silicon: a novel material for solar cells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1746-1749.	0.8	3
139	Crystal Growth of Ternary Alloy Semiconductor and Preliminary Study for Microgravity Experiment at the International Space Station. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2014, 12, Ph_31-Ph_35.	0.1	3
140	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
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