# Mukannan Arivanandhan

List of Publications by Year
in descending order

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|---|---|---|---|
| 172 papers | 2,880 citations | 201575 27 h-index | 254106 43 g-index |
| 173 all docs | 173 docs citations | 173 times ranked | 3556 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enhancing the thermoelectric performance of nanostructured ZnSb by heterovalent bismuth substitution. Journal of Physics and Chemistry of Solids, 2022, 160, 110303. | 1.9 | 8 |
| 2 | The effect of Sr and Sb co-doping on structural, morphological and thermoelectric properties of BaSnO3 perovskite material. Journal of Alloys and Compounds, 2022, 894, 162335. | 2.8 | 3 |
| 3 | Facile synthesis and characteristics of NiMoS2/rGO nanocomposites for energy and environmental application. Carbon Letters, 2022, 32, 753-765. | 3.3 | 5 |
| 4 | Effect of calcination on structural, morphological and electrochemical properties of SnO2 nanoparticles. Journal of Materials Science: Materials in Electronics, 2022, 33, 5534-5551. | 1.1 | 2 |
| 5 | Thermoelectric performance of Ge1-xSnxTe (0 â‰¤ x â‰¤ 0.2) prepared by facile method. Journal of Solid State Chemistry, 2022, 310, 122995. | 1.4 | 0 |
| 6 | Effect of Gd and Nb co-substitution on enhancing the thermoelectric power factor of nanostructured SrTiO3. Ceramics International, 2021, 47, 3201-3208. | 2.3 | 19 |
| 7 | Enhanced thermoelectric performance of band structure engineered GeSe<sub>1â^'x</sub>Te<sub>x</sub> alloys. Sustainable Energy and Fuels, 2021, 5, 1734-1746. | 2.5 | 20 |
| 8 | Bifunctional investigation of ultra-small SnO<sub>2</sub>nanoparticle decorated rGO for ozone sensing and supercapacitor applications. RSC Advances, 2021, 11, 856-866. | 1.7 | 8 |
| 9 | The effect of TEOS concentration in polysulphide electrolyte and CuS counter electrode on enhancing the performance of CdS quantum dot sensitized solar cells. Journal of Applied Electrochemistry, 2021, 51, 1111. | 1.5 | 2 |
| 10 | Metal oxideâ€“grafted graphene nanocomposites for energy storage applications. Emergent Materials, 2021, 4, 1143-1165. | 3.2 | 9 |
| 11 | The effect of graphene quantum dots/ <scp>ZnS</scp> coâ€passivation on enhancing the photovoltaic performance of <scp>CdS</scp> quantum dot sensitized solar cells. International Journal of Energy Research, 2021, 45, 15879-15891. | 2.2 | 7 |
| 12 | Dendritic Growth in Si1â^'xGex Melts. Crystals, 2021, 11, 761. | 1.0 | 1 |
| 13 | The impact of Yb substitution on enhancing the thermoelectric properties of CuMnO2 nanostructures. Journal of Solid State Chemistry, 2021, 303, 122533. | 1.4 | 3 |
| 14 | A rutile TiO<sub>2</sub> nanobundle as a precursor of an efficient visible-light photocatalyst embedded with Fe<sub>2</sub>O<sub>3</sub>. Inorganic Chemistry Frontiers, 2021, 8, 4423-4430. | 3.0 | 8 |
| 15 | In Situ Binder-Free and Hydrothermal Growth of Nanostructured NiCo2S4/Ni Electrodes for Solid-State Hybrid Supercapacitors. Energies, 2021, 14, 7114. | 1.6 | 8 |
| 16 | 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. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 943-954. | 1.9 | 13 |
| 17 | Facile synthesis of Yb2O3â€“graphene nanocomposites for enhanced energy and environmental applications. Polymer Bulletin, 2020, 77, 3891-3906. | 1.7 | 13 |
| 18 | Facile synthesis of pervoskite type BiYO3 embedded reduced graphene oxide (RGO) composite for supercapacitor applications. Ceramics International, 2020, 46, 3471-3478. | 2.3 | 14 |

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|---|---|---|---|
| 19 | Facile preparation of Mn3O4/rGO hybrid nanocomposite by solâ€“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 |
| 20 | Facile synthesis of CdS Quantum dots for QDSSC with high photo current density. Materials Research Express, 2020, 7, 015528. | 0.8 | 5 |
| 21 | The effect of mixed solvents on solute-solvent interactions and bulk growth of 3,4-diamino benzopheone: A novel benzophenone derivative for NLO applications. Optical Materials, 2020, 100, 109603. | 1.7 | 6 |
| 22 | Investigation of nano ceramics added bismuth antimony telluride for energy harvesting applications. Materials Today: Proceedings, 2020, 22, 879-883. | 0.9 | 11 |
| 23 | Facile synthesis of morphology-controlled La:BaSnO<sub>3</sub> for the enhancement of thermoelectric power factor. CrystEngComm, 2020, 22, 5363-5374. | 1.3 | 10 |
| 24 | High Sensitive Electrochemical Nitrite Sensor Using Fe2O3/MoS2 Nanocomposites Synthesized by Facile Method. Bulletin of the Chemical Society of Japan, 2020, 93, 1564-1570. | 2.0 | 4 |
| 25 | Effect of Sb substitution on structural, morphological and electrical properties of BaSnO3 for thermoelectric application. Physica B: Condensed Matter, 2020, 597, 412387. | 1.3 | 4 |
| 26 | Crystal growth, structural, optical, thermal, and mechanical properties of new bis(2-amino-6-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5<br>Chinese Journal of Physics, 2020, 68, 436-460. | 2.0 | 9 |
| 27 | Antimonene nanosheets with enhanced electrochemical performance for energy storage applications. Dalton Transactions, 2020, 49, 13717-13725. | 1.6 | 33 |
| 28 | Growth, experimental and theoretical investigations on 4-hydroxy-3-methoxybenzaldehyde 5-chloro-2-hydroxybenzoic acid: A new high second order nonlinear optical material. Journal of Molecular Structure, 2020, 1217, 128406. | 1.8 | 10 |
| 29 | Enhanced electrochemical performance of Î±-MoO3/graphene nanocomposites prepared by an in situ microwave irradiation technique for energy storage applications. RSC Advances, 2020, 10, 22836-22847. | 1.7 | 22 |
| 30 | Efficient Photoreduction of Hexavalent Chromium Using the Reduced Graphene Oxideâ€“Sm<sub>2</sub>MoO<sub>6</sub>â€“TiO<sub>2</sub> Catalyst under Visible Light Illumination. ACS Omega, 2020, 5, 6414-6422. | 1.6 | 42 |
| 31 | A facile synthesis of novel Îµ-Fe<sub>2</sub>O<sub>3</sub> grafted 2D h-BN nanostructures for enhanced visible active photocatalytic applications. New Journal of Chemistry, 2020, 44, 12289-12298. | 1.4 | 16 |
| 32 | Enhancing the thermoelectric power factor of nanostructured ZnCo<sub>2</sub>O<sub>4</sub> by Bi substitution. RSC Advances, 2020, 10, 18769-18775. | 1.7 | 6 |
| 33 | Rational fabrication of needle with spherical shape ternary reduced Graphene Oxide-HoVO4-TiO2 photocatalyst for degradation of ibuprofen under visible light. Applied Surface Science, 2020, 513, 145803. | 3.1 | 37 |
| 34 | Investigation on ozone-sensing characteristics of surface sensitive hybrid rGO/WO3 nanocomposite films at ambient temperature. Advanced Composites and Hybrid Materials, 2020, 3, 16-30. | 9.9 | 42 |
| 35 | Enhancement of thermoelectric power factor of hydrothermally synthesised SrTiO<sub>3</sub> nanostructures. Materials Research Express, 2020, 7, 015094. | 0.8 | 10 |
| 36 | Surfactant-Free Synthesis of Nb2O5 Nanoparticles Anchored Graphene Nanocomposites with Enhanced Electrochemical Performance for Supercapacitor Electrodes. Nanomaterials, 2020, 10, 160. | 1.9 | 31 |

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| 37 | Effect of sintering temperatures on mixed phases and thermoelectric properties of nanostructured copper telluride. Journal of Alloys and Compounds, 2020, 835, 155276. | 2.8 | 15 |
| 38 | CuO/MoS2 nanocomposites for rapid and high sensitive non-enzymatic glucose sensors. Ceramics International, 2020, 46, 16879-16885. | 2.3 | 28 |
| 39 | Effect of B4C and SiC nanoparticle reinforcement on the wear behavior and surface structure of aluminum (Al6063-T6) matrix composite. SN Applied Sciences, 2020, 2, 1. | 1.5 | 4 |
| 40 | Effect of co-sensitization of InSb quantum dots on enhancing the photoconversion efficiency of CdS based quantum dot sensitized solar cells. RSC Advances, 2020, 10, 14837-14845. | 1.7 | 14 |
| 41 | A facile preparation, performance and emission analysis of pongamia oil based novel biodiesel in diesel engine with CeO2:Gd nanoparticles. Fuel, 2019, 255, 115756. | 3.4 | 36 |
| 42 | TiO2 nanostructures with controlled morphology for improved electrical properties of photoanodes and quantum dot sensitized solar cell characteristics. Surfaces and Interfaces, 2019, 17, 100350. | 1.5 | 12 |
| 43 | Synthesis and characterization of g/Niâ€“SiO2 composite for enhanced hydrogen storage applications. International Journal of Hydrogen Energy, 2019, 44, 23249-23256. | 3.8 | 11 |
| 44 | High-performance electrochemical capacitor based on cuprous oxide/graphene nanocomposite electrode material synthesized by microwave irradiation method. Emergent Materials, 2019, 2, 495-504. | 3.2 | 15 |
| 45 | Crystallization and re-melting of Si1-xGex alloy semiconductor during rapid cooling. Journal of Alloys and Compounds, 2019, 798, 493-499. | 2.8 | 9 |
| 46 | Enhancing effects of Te substitution on the thermoelectric power factor of nanostructured SnSe<sub>1â^'x</sub>Te<sub>x</sub>. Physical Chemistry Chemical Physics, 2019, 21, 15725-15733. | 1.3 | 25 |
| 47 | Synthesis, experimental and computational spectroscopic investigations of third-order nonlinear optical material (E)-Nâ€²-(benzo[d][1,3]dioxol-5-ylmethylene)benzohydrazide. Journal Physics D: Applied Physics, 2019, 52, 395102. | 1.3 | 10 |
| 48 | Green approach to the preparation of reduced graphene oxide for photocatalytic and supercapacitor application. Optik, 2019, 190, 21-27. | 1.4 | 23 |
| 49 | A facile synthesis, structural, morphological and electrical characterizations of Zn1-xCoxO nanocrystals for thermoelectric applications. Solid State Sciences, 2019, 91, 133-137. | 1.5 | 3 |
| 50 | Growth, structural and optical studies of a novel nonlinear optical material: p-Toluidinium L-Tartrate. Optik, 2019, 185, 651-656. | 1.4 | 9 |
| 51 | Homogeneous InGaSb crystal grown under microgravity using Chinese recovery satellite SJ-10. Npj Microgravity, 2019, 5, 8. | 1.9 | 12 |
| 52 | Effect of Bismuth substitution on the enhancement of thermoelectric power factor of nanostructured BixCo3-xO4. Ceramics International, 2019, 45, 6782-6787. | 2.3 | 9 |
| 53 | Production, characterization and effectiveness of cellulose acetate functionalized ZnO nanocomposite adsorbent for the removal of Se (VI) ions from aqueous media. Environmental Science and Pollution Research, 2019, 26, 528-543. | 2.7 | 21 |
| 54 | A Facile Synthesis of Cellulose Acetate Functionalized Zinc Oxide Nanocomposite for Electrochemical Sensing of Cadmium ions. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 989-999. | 1.9 | 20 |

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| 55 | Templated synthesis of atomically thin platy hematite nanoparticles within a layered silicate exhibiting efficient photocatalytic activity. Journal of Materials Chemistry A, 2018, 6, 5166-5171. | 5.2 | 20 |
| 56 | Orientation-dependent dissolution and growth kinetics of InxGa1â^'xSb by vertical gradient freezing method under microgravity. Journal of Crystal Growth, 2018, 496-497, 15-17. | 0.7 | 8 |
| 57 | 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 |
| 58 | Molybdenum Oxide/Graphene Nanocomposite Electrodes with Enhanced Capacitive Performance for Supercapacitor Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 50-62. | 1.9 | 20 |
| 59 | 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 |
| 60 | A facile synthesis of hybrid nanocomposites of reduced graphene oxide/ZnO and its surface modification characteristics for ozone sensing. Journal of Materials Science: Materials in Electronics, 2018, 29, 3074-3086. | 1.1 | 19 |
| 61 | Facile synthesis of RuO2 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 |
| 62 | Effects of Al composition on the secondary phase formation and thermoelectric properties of Zn1-xAlxO nanocrystals. Journal of Physics and Chemistry of Solids, 2018, 122, 162-166. | 1.9 | 10 |
| 63 | Impact of graphene on the enhancement of electrochemical and photocatalytic performance of Gd2O3 - Graphene nanocomposites. Solid State Sciences, 2018, 83, 171-180. | 1.5 | 22 |
| 64 | 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 |
| 65 | In situ Growth of Phaseâ€Controlled Nickel Sulfide Nanostructures on Reduced Graphene Oxide Nanosheets : A Improved Costâ€effective Catalyst for 4â€Nitrophenol Reduction. ChemistrySelect, 2017, 2, 2187-2196. | 0.7 | 5 |
| 66 | Fabrication of high quality, thin Ge-on-insulator layers by direct wafer-bonding for nanostructured thermoelectric devices. Semiconductor Science and Technology, 2017, 32, 035021. | 1.0 | 4 |
| 67 | Non linear optical studies on semiorganic single crystal: L-arginine 4-nitrophenalate 4-nitrophenol dihydrate (LAPP). Optics and Laser Technology, 2017, 92, 168-172. | 2.2 | 14 |
| 68 | Structural, Dielectric and Magnetic Properties of La Substituted CoFe2O4 Nanoparticles. Springer Proceedings in Physics, 2017, , 179-193. | 0.1 | 1 |
| 69 | The impact of sintering temperature on structural, morphological and thermoelectric properties of zinc titanate nanocrystals. Materials Research Express, 2017, 4, 075036. | 0.8 | 4 |
| 70 | 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 |
| 71 | Growth, optical, ICP and thermal studies of nonlinear optical single crystal: Sodium acid phthalate (NaAP). AIP Conference Proceedings, 2017, , . | 0.3 | 0 |
| 72 | The effect of rare earth ions on structural, morphological and thermoelectric properties of nanostructured tin oxide based perovskite materials. Materials Research Express, 2017, 4, 115024. | 0.8 | 1 |

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| 73 | 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 |
| 74 | Defect assisted room temperature ferromagnetism on rf sputtered Mn doped CeO2 thin films. Ceramics International, 2017, 43, 399-406. | 2.3 | 31 |
| 75 | Structural, Spectral, Morphological, Dielectric, Magnetic, and Optical Properties of La-Ni ions co-substituted CoFe2O4 Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2017, 30, 441-453. | 0.8 | 4 |
| 76 | Phonon-Drag Contribution to Seebeck Coefficient in P-Type Si, Ge and Si<sub>1-x</sub>Ge<sub>x</sub>. IEICE Transactions on Electronics, 2017, E100.C, 482-485. | 0.3 | 1 |
| 77 | Investigation of directionally solidified InGaSb ternary alloys from Ga and Sb faces of GaSb(111) under prolonged microgravity at the International Space Station. Npj Microgravity, 2016, 2, 16026. | 1.9 | 11 |
| 78 | Vertical gradient solution growth of N-type Si0.73Ge0.27 bulk crystals with homogeneous composition and its thermoelectric properties. Journal of Crystal Growth, 2016, 442, 102-109. | 0.7 | 3 |
| 79 | A Review on InGaSb Growth under Microgravity and Terrestrial Conditions Towards Future Crystal Growth Project Using Chinese Recovery Satellite SJ-10. Microgravity Science and Technology, 2016, 28, 143-154. | 0.7 | 6 |
| 80 | Characterization of spray pyrolytically deposited high mobility praseodymium doped CdO thin films. Ceramics International, 2016, 42, 12675-12685. | 2.3 | 53 |
| 81 | Crystal growth, structural and optical properties of a novel benzophenone derivative: 2-Chloro 5-nitro benzophenone. Optik, 2016, 127, 5887-5893. | 1.4 | 7 |
| 82 | Effects of varying indium composition on the thermoelectric properties of In x Ga1âˆ'x Sb ternary alloys. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 1.1 | 17 |
| 83 | UV-visible and near-infrared active NaGdF<sub>4</sub>:Yb:Er/Ag/TiO<sub>2</sub> nanocomposite for enhanced photocatalytic applications. RSC Advances, 2016, 6, 80655-80665. | 1.7 | 18 |
| 84 | Synthesis and characterization of Y<sub>2</sub>O<sub>3</sub>-reduced graphene oxide nanocomposites for photocatalytic applications. Materials Research Express, 2016, 3, 075502. | 0.8 | 15 |
| 85 | CTAB cationic surfactant assisted synthesis of CoFe2O4 magnetic nanoparticles. Ceramics International, 2016, 42, 19320-19328. | 2.3 | 52 |
| 86 | 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 |
| 87 | Effect of Mn doping on the electrical and optical properties of SnO2 thin films deposited by chemical spray pyrolysis technique. Thin Solid Films, 2016, 598, 195-203. | 0.8 | 42 |
| 88 | Electrical and optical properties of Co2+:SnO2 thin films deposited by spray pyrolysis technique. Journal of Materials Science: Materials in Electronics, 2016, 27, 1662-1669. | 1.1 | 7 |
| 89 | Graphene decorated with MoS<sub>2</sub> nanosheets: a synergetic energy storage composite electrode for supercapacitor applications. Dalton Transactions, 2016, 45, 2637-2646. | 1.6 | 200 |
| 90 | Growth of InxGa1âˆ'xSb alloy semiconductor at the International Space Station (ISS) and comparison with terrestrial experiments. Npj Microgravity, 2015, 1, 15011. | 1.9 | 24 |

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| 91 | Effect of Erbium on the Photocatalytic Activity of TiO<sub>2</sub>/Ag Nanocomposites under Visible Light Irradiation. ChemPhysChem, 2015, 16, 3084-3092. | 1.0 | 16 |
| 92 | 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 |
| 93 | Phonon-drag Contribution to Seebeck Coefficient of Ge-on-insulator Substrate Fabricated by Wafer Bonding Process. Makara Journal of Technology, 2015, 19, 21. | 0.4 | 2 |
| 94 | Effect of solvents on the bulk growth of 4-aminobenzophenone single crystals: A potential material for blue and green lasers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 145, 329-332. | 2.0 | 7 |
| 95 | Role of SDS surfactant concentrations on the structural, morphological, dielectric and magnetic properties of CoFe<sub>2</sub>O<sub>4</sub> nanoparticles. RSC Advances, 2015, 5, 27060-27068. | 1.7 | 57 |
| 96 | High Power Factor of Ga-Doped Compositionally Homogeneous Si<sub>0.68</sub>Ge<sub>0.32</sub> Bulk Crystal Grown by the Vertical Temperature Gradient Freezing Method. Crystal Growth and Design, 2015, 15, 1380-1388. | 1.4 | 5 |
| 97 | Chemical Vapor Deposition of Î²-HgS Nanoparticles From a Precursor, bis(cinnamylpiperazinedithiocarbamato) Mercury(II). Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2015, 45, 217-224. | 0.6 | 13 |
| 98 | Facile synthesis of graphene-CeO<sub>2</sub> nanocomposites with enhanced electrochemical properties for supercapacitors. Dalton Transactions, 2015, 44, 9901-9908. | 1.6 | 97 |
| 99 | Segregation of Ge in B and Ge codoped Czochralski-Si crystal growth. Journal of Alloys and Compounds, 2015, 639, 588-592. | 2.8 | 3 |
| 100 | Niobium pentoxide (Nb2O5) thin films: rf Power and substrate temperature induced changes in physical properties. Optik, 2015, 126, 1945-1950. | 1.4 | 48 |
| 101 | Seebeck Coefficient of Ge-on-Insulator Layers Fabricated by Direct Wafer Bonding Process. Advanced Materials Research, 2015, 1117, 94-97. | 0.3 | 3 |
| 102 | Determination of gas sensing properties of thermally evaporated WO3 nanostructures. Journal of Materials Science: Materials in Electronics, 2015, 26, 1389-1394. | 1.1 | 14 |
| 103 | Crystal Growth of Ternary Alloy Semiconductor and Preliminary Study for Microgravity Experiment at the International Space Station. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Ph_31-Ph_35. | 0.1 | 3 |
| 104 | Growth, structural and optical characterization of L-histidine 4-nitrophenolate (LHPNP) single crystals for NLO applications. , 2014, , . | | 0 |
| 105 | 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 |
| 106 | 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. | 2.8 | 3 |
| 107 | Investigations on the growth aspects and characterization of semiorganic nonlinear optical single crystals of l-histidine and its hydrochloride derivative. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 508-513. | 2.0 | 15 |
| 108 | Synthesis, structural, dielectric, magnetic and optical properties of Cr substituted CoFe2O4 nanoparticles by co-precipitation method. Journal of Magnetism and Magnetic Materials, 2014, 362, 122-129. | 1.0 | 83 |

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|---|---|---|---|
| 109 | Synthesis, growth, crystal structure and characterization of a new organic NLO crystal: l-Lysine 4-nitrophenolate monohydrate (LLPNP). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 130, 416-422. | 2.0 | 14 |
| 110 | Thermal properties of molten InSb, GaSb, and InxGa1â^'xSb alloy semiconductor materials in preparation for crystal growth experiments on the international space station. Advances in Space Research, 2014, 53, 689-695. | 1.2 | 4 |
| 111 | Tailoring bismuth telluride nanostructures using a scalable sintering process and their thermoelectric properties. CrystEngComm, 2014, 16, 7956-7962. | 1.3 | 21 |
| 112 | Size and Surface Effects of Ce-Doped NiO and Co<sub>3</sub>O<sub>4</sub> Nanostructures on Ferromagnetism Behavior Prepared by the Microwave Route. Journal of Physical Chemistry C, 2014, 118, 23335-23348. | 1.5 | 65 |
| 113 | Studies on the growth aspects and characterization of sodium para-nitro phenolate single crystals for nonlinear optical applications. Optik, 2014, 125, 5515-5518. | 1.4 | 11 |
| 114 | Shape controlled synthesis of hierarchical nickel sulfide by the hydrothermal method. Dalton Transactions, 2014, 43, 17445-17452. | 1.6 | 38 |
| 115 | Viscosity of Molten InSb, GaSb, and $$mathrm{{In}}_{x}mathrm{{Ga}}_{1-{x}}mathrm{{Sb}}$$ In x Ga 1 - x Sb Alloy Semiconductors. International Journal of Thermophysics, 2014, 35, 352-360. | 1.0 | 2 |
| 116 | In-situ observation of faceted growth of benzophenone single crystals. Materials Chemistry and Physics, 2014, 144, 402-408. | 2.0 | 8 |
| 117 | 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 |
| 118 | Crystal growth, structural, thermal and mechanical behavior of l-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP) single crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 396-402. | 2.0 | 15 |
| 119 | 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 |
| 120 | A comparative analysis on growth aspects and characterization of novel benzophenone derivatives. Materials Chemistry and Physics, 2013, 141, 160-165. | 2.0 | 3 |
| 121 | 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 |
| 122 | Grown-in microdefects and photovoltaic characteristics of heavily Ge co-doped Czochralski-grown p-type silicon crystals. Scripta Materialia, 2013, 69, 686-689. | 2.6 | 3 |
| 123 | Germanium-doped Czochralski silicon: a novel material for solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1746-1749. | 0.8 | 3 |
| 124 | Electro optic properties of DAST single crystal. , 2013, , . | | 2 |
| 125 | Effect of deposition time on the chemical bath deposition method of ZnO thin films. AIP Conference Proceedings, 2013, , . | 0.3 | 1 |
| 126 | Growth and characterization of a novel nonlinear optical borate crystal â€“ Yttrium calcium borate (YCB). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 110, 391-394. | 2.0 | 6 |

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| 127 | Role of Co doping on structural and morphological properties of SnO nanoparticle. , 2013, , . | | 0 |
| 128 | Enhancement of saturation magnetization of NiO nanorods via microwave assisted route. , 2013, , . | | 1 |
| 129 | Room temperature ethanol sensing property of cubic nanostructure tungsten oxide (WO[sub 3]). AIP Conference Proceedings, 2013, , . | 0.3 | 5 |
| 130 | Direction Controlled Growth of Organic Single Crystals by Novel Growth Methods. , 2013, , . | | 2 |
| 131 | Effect of Hippuric Acid on the Growth, Structural and Optical Properties of Non Linear Optical Crystals. International Journal of Science and Engineering Applications, 2013, NCRTAM, 93-96. | 0.1 | 0 |
| 132 | The impact of Ge codoping on the enhancement of photovoltaic characteristics of B-doped Czochralski grown Si crystal. Journal of Applied Physics, 2012, 111, 043707. | 1.1 | 10 |
| 133 | Growth of InGaSb Alloy Semiconductor Bulk Crystals under Microgravity. Hyomen Kagaku, 2012, 33, 687-693. | 0.0 | 0 |
| 134 | Functional properties of amine-passivated ZnO nanostructures and dye-sensitized solar cell characteristics. Chemical Engineering Journal, 2012, 213, 70-77. | 6.6 | 50 |
| 135 | Chemical synthesis of ZnO hexagonal thin nanodisks and dyeâ€sensitized solar cell performance. Physica Status Solidi - Rapid Research Letters, 2012, 6, 120-122. | 1.2 | 19 |
| 136 | Synthesis of wurtzite ZnS nanorods by microwave assisted chemical route. Materials Letters, 2012, 66, 276-279. | 1.3 | 22 |
| 137 | Organic ligand assisted low temperature synthesis of lead sulfide nanocubes and its optical properties. Materials Letters, 2012, 71, 44-47. | 1.3 | 7 |
| 138 | Solvothermal preparation of nano-Î²-HgS from a precursor, bis(dibenzyldithiocarbamato)mercury(II). Journal of Nanoparticle Research, 2012, 14, 1. | 0.8 | 21 |
| 139 | Hydrothermal growth of 3 dimensional porous ZnO nanoflowers and functional properties. , 2012, , . | | 0 |
| 140 | Current Status of Alloy Semiconductor Crystal Growth Project under Microgravity. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2012, 10, Th_1-Th_4. | 0.1 | 0 |
| 141 | Growth of homogeneous polycrystalline Si1-xGex and Mg2Si1-xGex for thermoelectric application. Thin Solid Films, 2011, 519, 8532-8537. | 0.8 | 15 |
| 142 | Anisotropy of hardness and laser damage threshold of unidirectional organic NLO crystal in relation to the internal structure. Materials Chemistry and Physics, 2011, 130, 154-158. | 2.0 | 7 |
| 143 | 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. Journal of Crystal Growth, 2011, 324, 157-162. | 0.7 | 14 |
| 144 | Effect of pure and mixed solvents on the solubility, crystal growth and morphology of ethyl p-dimethylamino benzoate (EDMAB): An organic nonlinear optical material. Physica B: Condensed Matter, 2011, 406, 1410-1414. | 1.3 | 4 |

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