

# R Jayavel

## List of Publications by Citations

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457  
ext. papers

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#	Paper	IF	Citations
438	Graphene decorated with MoS <sub>2</sub> nanosheets: a synergetic energy storage composite electrode for supercapacitor applications. <i>Dalton Transactions</i> , <b>2016</b> , 45, 2637-46	4.3	157
437	Enhanced Photocatalytic Performance of the Graphene-V <sub>2</sub> O <sub>5</sub> Nanocomposite in the Degradation of Methylene Blue Dye under Direct Sunlight. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 14905-11	9.5	154
436	Growth and characterization of zinc thiourea chloride (ZTC): a semiorganic nonlinear optical crystal. <i>Journal of Crystal Growth</i> , <b>2001</b> , 229, 563-567	1.6	126
435	Synthesis and characterization of boron doped graphene nanosheets for supercapacitor applications. <i>Synthetic Metals</i> , <b>2016</b> , 220, 524-532	3.6	123
434	Effect of cobalt doping on the structural and optical properties of TiO <sub>2</sub> films prepared by sol-gel process. <i>Thin Solid Films</i> , <b>2008</b> , 516, 3776-3782	2.2	116
433	Studies on the growth aspects of semi-organic l-alanine acetate: a promising NLO crystal. <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, e1935-e1939	1.6	113
432	Studies on visible light photocatalytic and antibacterial activities of nanostructured cobalt doped ZnO thin films prepared by sol-gel spin coating method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 148, 237-43	4.4	108
431	Structural and optical properties of thin zirconium oxide films prepared by reactive direct current magnetron sputtering. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 3599-3607	2.5	108
430	Dimensionally integrated nanoarchitectonics for a novel composite from 0D, 1D, and 2D nanomaterials: RGO/CNT/CeO <sub>2</sub> ternary nanocomposites with electrochemical performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 18480-18487	13	97
429	Study on thermal properties of organic ester phase-change material embedded with silver nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 114, 845-858	4.1	96
428	Growth of bis(thiourea) cadmium chloride single crystals as potential NLO material of organometallic complex. <i>Journal of Crystal Growth</i> , <b>2000</b> , 218, 365-371	1.6	90
427	Growth of zinc thiourea sulfate (ZTS) single crystals. <i>Journal of Crystal Growth</i> , <b>1999</b> , 197, 216-220	1.6	88
426	Intrinsic ferromagnetism and magnetic anisotropy in Gd-doped ZnO thin films synthesized by pulsed spray pyrolysis method. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 053904	2.5	81
425	Characterization of cadmium doped zinc oxide (Cd : ZnO) thin films prepared by spray pyrolysis method. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 245403	3	79
424	Temperature stability of sputtered niobium oxide films. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 4863-4871	2.5	75
423	Facile synthesis of graphene-CeO <sub>2</sub> nanocomposites with enhanced electrochemical properties for supercapacitors. <i>Dalton Transactions</i> , <b>2015</b> , 44, 9901-8	4.3	71
422	Synthesis and electrochemical properties of reduced graphene oxide via chemical reduction using thiourea as a reducing agent. <i>Materials Letters</i> , <b>2013</b> , 113, 5-8	3.3	69

4 <sup>21</sup>	Metastable zonewidth, induction period and interfacial energy of zinc tris(thiourea) sulfate. <i>Journal of Crystal Growth</i> , <b>2000</b> , 210, 741-745	1.6	69
4 <sup>20</sup>	Double hydroxide mediated synthesis of nanostructured ZnCo <sub>2</sub> O <sub>4</sub> as high performance electrode material for supercapacitor applications. <i>Chemical Engineering Journal</i> , <b>2017</b> , 321, 474-483	14.7	68
4 <sup>19</sup>	X-ray absorption and magnetic circular dichroism characterizations of Mn doped ZnO. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 162503	3.4	68
4 <sup>18</sup>	Cobalt Oxide/Reduced Graphene Oxide Composite with Enhanced Electrochemical Supercapacitance Performance. <i>Bulletin of the Chemical Society of Japan</i> , <b>2017</b> , 90, 955-962	5.1	67
4 <sup>17</sup>	High performance electrochemical capacitor based on MnCo <sub>2</sub> O <sub>4</sub> nanostructured electrode. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 756, 94-100	4.1	65
4 <sup>16</sup>	Indium Oxide/Carbon Nanotube/Reduced Graphene Oxide Ternary Nanocomposite with Enhanced Electrochemical Supercapacitance. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 521-528	5.1	65
4 <sup>15</sup>	Synthesis and characterization of LaFeO <sub>3</sub> /TiO <sub>2</sub> nanocomposites for visible light photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , <b>2017</b> , 101, 25-33	3.9	63
4 <sup>14</sup>	Composite Nanoarchitectonics for Ternary Systems of Reduced Graphene Oxide/Carbon Nanotubes/Nickel Oxide with Enhanced Electrochemical Capacitor Performance. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2015</b> , 25, 267-274	3.2	63
4 <sup>13</sup>	Synthesis, Structural and Optical Properties of PVP Encapsulated CdS Nanoparticles. <i>Nanomaterials and Nanotechnology</i> , <b>2011</b> , 1, 17	2.9	60
4 <sup>12</sup>	Thiourea assisted one-pot easy synthesis of CdS/rGO composite by the wet chemical method: Structural, optical, and photocatalytic properties. <i>Ceramics International</i> , <b>2013</b> , 39, 9207-9214	5.1	57
4 <sup>11</sup>	Influence of Isoelectric pH on the Growth Linear and Nonlinear Optical and Dielectric Properties of L-Threonine Single Crystals. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 1308-1310	3.5	57
4 <sup>10</sup>	Growth and characterization of non-linear optical L-alanine tetrafluoroborate (L-AIFB) single crystals. <i>Journal of Crystal Growth</i> , <b>2002</b> , 245, 121-125	1.6	56
4 <sup>09</sup>	Growth and characterisation of phosphate mixed ZTS single crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1999</b> , 65, 153-158	3.1	56
4 <sup>08</sup>	Investigations on the structural, optical and electronic properties of Nd doped ZnO thin films. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 105410	3	55
4 <sup>07</sup>	Pt-free solar driven photoelectrochemical hydrogen fuel generation using 1T MoS <sub>2</sub> co-catalyst assembled CdS QDs/TiO <sub>2</sub> photoelectrode. <i>Chemical Communications</i> , <b>2015</b> , 51, 522-5	5.8	54
4 <sup>06</sup>	Growth, structural, optical and thermal studies of non-linear optical l-threonine single crystals. <i>Journal of Crystal Growth</i> , <b>2004</b> , 267, 213-217	1.6	53
4 <sup>05</sup>	Influence of pH on the growth and characteristics of nonlinear optical zinc thiourea chloride (ZTC) single crystals. <i>Journal of Crystal Growth</i> , <b>2003</b> , 252, 317-327	1.6	53
4 <sup>04</sup>	Synthesis of cobalt-doped cadmium sulphide nanocrystals and their optical and magnetic properties. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 1621-1628	2.3	52

403	Preparation and characterization of ZnO nanofibers by electrospinning. <i>Crystal Research and Technology</i> , <b>2006</b> , 41, 446-449	1.3	52
402	Synthesis and Electrochemical Studies of rGO/ZnO Nanocomposite for Supercapacitor Application. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2018</b> , 28, 2046-2055	3.2	51
401	Electronic structure of Cu-doped ZnO thin films by x-ray absorption, magnetic circular dichroism, and resonant inelastic x-ray scattering. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 103915	2.5	51
400	Quantum confined CdS inclusion in graphene oxide for improved electrical conductivity and facile charge transfer in hetero-junction solar cell. <i>RSC Advances</i> , <b>2015</b> , 5, 16856-16869	3.7	50
399	Facile synthesis of RuO <sub>2</sub> nanoparticles anchored on graphene nanosheets for high performance composite electrode for supercapacitor applications. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 121, 339-349	3.9	49
398	Synthesis of graphene oxide/vanadium pentoxide composite nanofibers by electrospinning for supercapacitor applications. <i>Solid State Ionics</i> , <b>2014</b> , 268, 321-325	3.3	48
397	Growth and characterization of zirconium oxynitride films prepared by reactive direct current magnetron sputtering. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 2461-2466	2.5	48
396	Fabrication of Hybrid Collagen Aerogels Reinforced with Wheat Grass Bioactives as Instructive Scaffolds for Collagen Turnover and Angiogenesis for Wound Healing Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16939-16950	9.5	47
395	Enhanced electrochemical supercapacitor and excellent amperometric sensor performance of heterostructure CeO <sub>2</sub> -CuO nanocomposites via chemical route. <i>Applied Surface Science</i> , <b>2018</b> , 456, 104-113	6.7	47
394	Bulk Growth and Characterization of Semi-Organic Nonlinear Optical Bis Thiourea Bismuth Chloride Single Crystals. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 501-505	3.5	46
393	Growth and characterization of a new semiorganic non-linear optical thiosemicarbazide cadmium chloride monohydrate (Cd(NH <sub>2</sub> NHCSNH <sub>2</sub> )Cl <sub>2</sub> ·H <sub>2</sub> O) single crystals. <i>Journal of Crystal Growth</i> , <b>2007</b> , 305, 156-161	1.6	46
392	Structural, optical and visible light photocatalytic properties of nanocrystalline Nd doped ZnO thin films prepared by spin coating method. <i>Ceramics International</i> , <b>2015</b> , 41, 4169-4175	5.1	45
391	Synthesis and Growth of Triaquaglycinesulfatozinc(II), [Zn(SO <sub>4</sub> )(C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> )(H <sub>2</sub> O) <sub>3</sub> ], a New Semiorganic Nonlinear Optical Crystal. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 348-353	3.5	45
390	Growth and characterization of 4-dimethylamino-N-methyl-4-stilbazolium tosylate (DAST) single crystals. <i>Journal of Crystal Growth</i> , <b>2003</b> , 250, 113-117	1.6	44
389	Green synthesis of silver nanoparticles using Beta vulgaris: Role of process conditions on size distribution and surface structure. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 140, 135-147	4.4	43
388	In-situ microwave synthesis of graphene-TiO <sub>2</sub> nanocomposites with enhanced photocatalytic properties for the degradation of organic pollutants. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2016</b> , 163, 216-23	6.7	43
387	Facile in-situ microwave irradiation synthesis of TiO <sub>2</sub> /graphene nanocomposite for high-performance supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 808, 90-100	4.1	43
386	Physical properties of zinc doped tin oxide films prepared by spray pyrolysis technique. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 035505	3	42

385	Structural and optical properties of thin lead oxide films produced by reactive direct current magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2001</b> , 19, 2870	2.9	42
384	Growth and characterization of L-arginine acetate single crystals: a new NLO material. <i>Journal of Crystal Growth</i> , <b>2003</b> , 259, 321-325	1.6	41
383	Luminescence and electrochemical properties of rare earth (Gd, Nd) doped V2O5 nanostructures synthesized by a non-aqueous sol-gel route. <i>RSC Advances</i> , <b>2015</b> , 5, 21778-21785	3.7	40
382	Growth and characterization of non-linear optical l-hystidine tetrafluoroborate (l-HFB) single crystals. <i>Journal of Crystal Growth</i> , <b>2001</b> , 224, 122-127	1.6	40
381	Ferroelectric characterization studies on barium calcium titanate single crystals. <i>Materials Characterization</i> , <b>2000</b> , 45, 89-93	3.9	40
380	A study on the synthesis and characterization of CoMn2O4 electrode material for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 4653-4658	2.1	39
379	Investigation on the nucleation kinetics of zinc thiourea chloride (ZTC) single crystals. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 82, 273-280	4.4	39
378	A study on structural and optical properties of Mn- and Co-doped SnO2 nanocrystallites. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 124, 1046-1050	4.4	38
377	Characterization of Niobium Oxide Films Prepared by Reactive DC Magnetron Sputtering. <i>Physica Status Solidi A</i> , <b>2001</b> , 188, 1047-1058		38
376	Influence of pH on the characteristics of zinc tris (thiourea) sulfate (ZTS) single crystals. <i>Materials Chemistry and Physics</i> , <b>1999</b> , 61, 270-274	4.4	37
375	Wear resistant super-hard multilayer transition metal-nitride coatings. <i>Surfaces and Interfaces</i> , <b>2017</b> , 7, 74-82	4.1	36
374	The Fabrication of Natural Dye Sensitized Solar Cell (Dssc) based on TiO 2 Using Henna And Beetroot Dye Extracts. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 668-676	1.4	35
373	Facile hydrothermal synthesis and characterization of LaFeO3 nanospheres for visible light photocatalytic applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 3953-3961	2.1	35
372	Synthesis and luminescence enhancement of Cerium doped CdS nanoparticles. <i>Materials Letters</i> , <b>2012</b> , 66, 343-345	3.3	34
371	Reactive magnetron sputtering of Ni doped ZnO thin film: Investigation of optical, structural, mechanical and magnetic properties. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 636, 85-92	5.7	34
370	Growth and characterization of new nonlinear optical l-threonium acetate single crystals. <i>Journal of Crystal Growth</i> , <b>2005</b> , 283, 193-197	1.6	34
369	Habit modification of potassium acid phthalate (KAP) single crystals by impurities. <i>Journal of Crystal Growth</i> , <b>1999</b> , 207, 325-329	1.6	34
368	Single pot electrochemical synthesis of functionalized and phosphorus doped graphene nanosheets for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 6319-6328	2.1	33

367	Magnetic and optical property studies on controlled low-temperature fabricated one-dimensional Cr doped ZnO nanorods. <i>CrystEngComm</i> , <b>2010</b> , 12, 1887	3.3	33
366	Growth and stability of pure and amino doped TGS crystals. <i>Materials Chemistry and Physics</i> , <b>1997</b> , 50, 233-237	4.4	33
365	Single crystal growth and properties of semiorganic nonlinear optical L-arginine hydrochloride monohydrate crystals. <i>Crystal Research and Technology</i> , <b>2008</b> , 43, 851-856	1.3	33
364	Influence of calcium hexaboride reinforced magnesium composite for the mechanical and tribological behaviour. <i>Tribology International</i> , <b>2017</b> , 111, 18-25	4.9	32
363	Synthesis, growth and characterization of L-proline dimercuricchloride single crystals for frequency conversion applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 93-100	2.6	32
362	Formation of zinc sulfide nanoparticles in HMTA matrix. <i>Applied Surface Science</i> , <b>2009</b> , 255, 8879-8882	6.7	32
361	Growth and characterization of tetra l-lysine alanine mono hydrochloride dihydrate (TLAMHCl), a new semiorganic nonlinear optical single crystal. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 109, 119-124	4.4	32
360	Effect of rare-earth dopants on the growth and properties of triglycine sulphate single crystals. <i>Journal of Crystal Growth</i> , <b>2002</b> , 234, 545-550	1.6	32
359	Facile synthesis of heterostructure CeO <sub>2</sub> -TiO <sub>2</sub> nanocomposites for enhanced electrochemical sensor and solar cell applications. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 449-461	5.7	32
358	Influence of S doping on structural, optical and visible light photocatalytic activity of ZnO thin films. <i>Ceramics International</i> , <b>2014</b> , 40, 14733-14740	5.1	31
357	Freestanding flexible nitrogen doped-reduced graphene oxide film as an efficient electrode material for solid-state supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 723, 995-1000	5.7	31
356	Synthesis, growth and characterization of organic nonlinear optical bis-glycine maleate (BGM) single crystals. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 1855-1859	1.6	31
355	Experimental determination of metastable zone width, induction period and interfacial energy of LAP family crystals. <i>Journal of Crystal Growth</i> , <b>1997</b> , 178, 387-392	1.6	31
354	Effect of rare-earth dopants on the growth and structural, optical, electrical and mechanical properties of l-arginine phosphate single crystals. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 506, 784-787	5.7	30
353	Effect of Pr doping on the structural and optical properties of ZnO nanorods. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2010</b> , 175, 238-242	3.1	30
352	Narrow with tunable optical band gap of CdS based core shell nanoparticles: Applications in pollutant degradation and solar cells. <i>Journal of Luminescence</i> , <b>2015</b> , 165, 30-39	3.8	29
351	Structural, optical and photovoltaic properties of co-doped CdTe QDs for quantum dots sensitized solar cells. <i>Superlattices and Microstructures</i> , <b>2015</b> , 88, 634-644	2.8	29
350	Synthesis, structural, optical and thermal studies of an organic nonlinear optical 4-aminopyridinium maleate single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2012</b> , 88, 77-81	4.4	29

349	Hexagonal-like NiCo <sub>2</sub> O <sub>4</sub> nanostructure based high-performance supercapacitor electrodes. <i>Ionics</i> , <b>2017</b> , 23, 977-984	2.7	29
348	UV laser-induced damage tolerance measurements of CsB <sub>3</sub> O <sub>5</sub> crystals and its application for UV light generation. <i>Optical Materials</i> , <b>2008</b> , 31, 461-463	3.3	29
347	Heteroatom doped reduced graphene oxide paper for large area perovskite solar cells. <i>Solar Energy</i> , <b>2018</b> , 163, 564-569	6.8	28
346	Crystal growth, thermal and optical studies of semiorganic nonlinear optical material: l-lysine hydrochloride dihydrate. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 1829-1835	5.1	28
345	Growth and characterization of semiorganic nonlinear optical tetrakis thiourea nickel chloride single crystals. <i>Crystal Research and Technology</i> , <b>2007</b> , 42, 477-482	1.3	28
344	Sol-gel synthesis and property studies of layered perovskite bismuth titanate thin films. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 80, 23-28	4.4	28
343	Growth and characterization of l-lysine doped TGS and TGSP single crystals. <i>Journal of Crystal Growth</i> , <b>2001</b> , 229, 568-573	1.6	28
342	Synthesis of nitrogen doped coiled double walled carbon nanotubes by chemical vapor deposition method for supercapacitor applications. <i>Current Applied Physics</i> , <b>2016</b> , 16, 816-825	2.6	28
341	BiVO <sub>4</sub> /RGO hybrid nanostructure for high performance electrochemical supercapacitor. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 269, 409-418	3.3	28
340	Large single crystal growth, transport property, and spectroscopic characterizations of three-dimensional Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> . <i>Scientific Reports</i> , <b>2015</b> , 5, 12966	4.9	27
339	Electrochemical and structural analysis of the RE <sup>3+</sup> :CeO <sub>2</sub> nanopowders from combustion synthesis. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 614, 118-125	5.7	26
338	Crystal growth and characterization of l-histidine hydrochloride monohydrate semiorganic nonlinear optical single crystals. <i>Optical Materials</i> , <b>2012</b> , 34, 1225-1230	3.3	26
337	Curcumin cross-linked collagen aerogels with controlled anti-proteolytic and pro-angiogenic efficacy. <i>Biomedical Materials (Bristol)</i> , <b>2016</b> , 11, 045011	3.5	26
336	Substrate effect on wear resistant transition metal nitride hard coatings: Microstructure and tribo-mechanical properties. <i>Ceramics International</i> , <b>2015</b> , 41, 9849-9861	5.1	25
335	Rapid synthesis of WO <sub>3</sub> /graphene nanocomposite via in-situ microwave method with improved electrochemical properties. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 120, 250-260	3.9	25
334	Synthesis, optical, photocatalytic, and electrochemical studies on Ag <sub>2</sub> S/ZnS and ZnS/Ag <sub>2</sub> S nanocomposites. <i>Applied Nanoscience (Switzerland)</i> , <b>2016</b> , 6, 503-510	3.3	25
333	Wet chemical synthesis and characterization of pure and cerium doped Dy <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 1164-1169	3.9	25
332	Synthesis, growth and characterization of semi-organic nonlinear optical bis thiourea antimony tri bromide (BTAB) single crystals. <i>Journal of Crystal Growth</i> , <b>2009</b> , 312, 114-119	1.6	25

331	Growth and characterization of L-alanine and L-valine doped triglycine sulphate crystals. <i>Materials Research Bulletin</i> , <b>1997</b> , 32, 1503-1513	5.1	25
330	Role of hexamine in ZnO morphologies at different growth temperature with potential application in dye sensitized solar cell. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 92, 108-115	4.3	25
329	High Electrochemical Performance and Enhanced Electrocatalytic Behavior of a Hydrothermally Synthesized Highly Crystalline Heterostructure CeO@NiO Nanocomposite. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 13843-13861	5.1	24
328	Investigation on ozone-sensing characteristics of surface sensitive hybrid rGO/WO <sub>3</sub> nanocomposite films at ambient temperature. <i>Advanced Composites and Hybrid Materials</i> , <b>2020</b> , 3, 16-30	8.7	24
327	Sensitive electrochemical detection of glucose based on Au-CuO nanocomposites. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 122, 255-260	3.9	24
326	Crystal growth and characterization of semiorganic single crystals of l-histidine family for NLO applications. <i>Journal of Crystal Growth</i> , <b>2011</b> , 322, 69-73	1.6	24
325	Thermal stability of sputtered zirconium oxide films. <i>Vacuum</i> , <b>2004</b> , 75, 7-16	3.7	24
324	Synthesis, growth and characterization of nonlinear optical material: l-arginine fluoride. <i>Journal of Crystal Growth</i> , <b>2003</b> , 249, 316-320	1.6	24
323	Growth and micromorphology of as-grown and etched bis(thiourea) cadmium chloride (BTCC) single crystals. <i>Optical Materials</i> , <b>2003</b> , 21, 599-604	3.3	24
322	Effect of pH on the growth and characterization of l-HFB single crystal. <i>Journal of Crystal Growth</i> , <b>2003</b> , 254, 461-468	1.6	24
321	Tribo-mechanical properties of reactive magnetron sputtered transition metal carbide coatings. <i>Tribology International</i> , <b>2017</b> , 114, 234-244	4.9	23
320	Micro-tribo-mechanical properties of nanocrystalline TiN thin films for small scale device applications. <i>Tribology International</i> , <b>2015</b> , 88, 25-30	4.9	23
319	Structural, morphological and optical properties of highly monodispersed PEG capped V <sub>2</sub> O <sub>5</sub> nanoparticles synthesized through a non-aqueous route. <i>Materials Letters</i> , <b>2013</b> , 91, 228-231	3.3	23
318	Growth and characterization of bis-glycine sodium nitrate (BGSN), a novel semi-organic nonlinear optical crystal. <i>Journal of Crystal Growth</i> , <b>2007</b> , 309, 30-36	1.6	23
317	Nucleation kinetics and growth aspects of semi organic non-linear optical bis thiourea cadmium acetate single crystals. <i>Crystal Research and Technology</i> , <b>2006</b> , 41, 919-924	1.3	23
316	Growth and characterization of nonlinear optical crystal: L-histidinium bromide. <i>Journal of Crystal Growth</i> , <b>2003</b> , 255, 361-368	1.6	23
315	Growth, structural and spectral analyses of nonlinear optical l-threonine single crystals. <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, e1947-e1951	1.6	23
314	Evaluation of Reaction Parameters Dependent Optical Properties and Its Photovoltaics Performances of CdTe QDs. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2018</b> , 28, 1263-1275	3.2	22



3 <sup>13</sup>	PbO/CdO/ZnO and PbS/CdS/ZnS nanocomposites: Studies on optical, electrochemical and thermal properties. <i>Journal of Luminescence</i> , <b>2016</b> , 170, 78-89	3.8	22
3 <sup>12</sup>	Synthesis, structural and optical properties of Sm <sup>3+</sup> and Nd <sup>3+</sup> doped cadmium sulfide nanocrystals. <i>Materials Research Bulletin</i> , <b>2014</b> , 52, 128-133	5.1	22
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3 <sup>09</sup>	Synthesize of Graphene-Tin Oxide Nanocomposite and Its Photocatalytic Properties for the Degradation of Organic Pollutants Under Visible Light. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 7195-201	1.3	21
3 <sup>08</sup>	Vanadium sulfide/reduced graphene oxide composite with enhanced supercapacitance performance. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 92, 72-79	5.3	21
3 <sup>07</sup>	Shape controlled synthesis of rod-like Co <sub>3</sub> O <sub>4</sub> nanostructures as high-performance electrodes for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 6059-6067	2.1	21
3 <sup>06</sup>	Facile synthesize of free standing highly conducting flexible reduced graphene oxide paper. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 6232-6241	2.1	21
3 <sup>05</sup>	Crystal growth and magnetic ordering of Na <sub>2</sub> Ni <sub>2</sub> TeO <sub>6</sub> with honeycomb layers and Na <sub>2</sub> Cu <sub>2</sub> TeO <sub>6</sub> with Cu spin dimers. <i>CrystEngComm</i> , <b>2014</b> , 16, 10791-10796	3.3	21
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3 <sup>03</sup>	Growth and characterization of nonlinear optical l-arginine maleate dihydrate single crystals. <i>Materials Letters</i> , <b>2008</b> , 62, 755-758	3.3	21
3 <sup>02</sup>	Crystal structure of single crystals of nonlinear optical l-histidinium trichloroacetate. <i>Journal of Molecular Structure</i> , <b>2006</b> , 825, 158-164	3.4	21
3 <sup>01</sup>	Structural, morphology and electrical studies on ferroelectric bismuth titanate thin films prepared by sol-gel technique. <i>Journal of Crystal Growth</i> , <b>2002</b> , 237-239, 468-472	1.6	21
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298	Studies on electrochemical properties of heterolite (ZnMn <sub>2</sub> O <sub>4</sub> ) nanostructure for supercapacitor application. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2019</b> , 106, 121-126	3	21
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184	Investigations on Scattering Centers in CsB3O5 Crystals. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 3713-3716	3.5	9
183	Growth and morphological aspects of Pb[(Sc <sup>1/2</sup> Nb <sup>1/2</sup> ) <sub>0.58</sub> Ti <sub>0.42</sub> ]O <sub>3</sub> single crystals by slow-cooling technique. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 1093-1098	1.6	9
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167	Growth, twin and domain structure studies of superconducting Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>1-x</sub> Y <sub>x</sub> Cu <sub>2</sub> O <sub>8</sub> +δ single crystals. <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 215, 429-434	1.3	8
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63	Antibacterial efficacy of zinc oxide (ZnO) nanoparticles on <i>Vibrio anguillarum</i> <b>2013</b> ,		2
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60	Effect of Ta doped on microstructure of sodium potassium niobate single crystal grown by flux method <b>2013</b> ,		2
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32	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> . <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 4423-4430	6.8	2
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28	PVP capped CdS nanoparticles for UV-LED applications <b>2015</b> ,		1
27	Enriched adhesion of talc/ZnO nanocomposites on cotton fabric assisted by aloe-vera for bio-medical application <b>2015</b> ,		1
26	Dual emissive Sn <sub>(1-x)</sub> Cu <sub>x</sub> Co <sub>x</sub> O <sub>2</sub> nanostructures [A correlation study of doping concentration on structural, optical and electrical properties. <i>Superlattices and Microstructures</i> , <b>2014</b> , 68, 66-75	2.8	1



25	Structural, morphological and electrical studies of lithium ion irradiated sodium potassium niobate single crystal grown by flux method <b>2013</b> ,		1
24	Physical properties and characterization of RuSr <sub>2</sub> GdCu <sub>2</sub> O <sub>8</sub> (Ru-1212) grown by top seeded melt textured technique. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2009</b> , 163, 165-169	3.1	1
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