

# Mohd Shkir

## List of Publications by Citations

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455  
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478  
ext. papers

8,730  
ext. citations

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7.03  
L-index

#	Paper	IF	Citations
455	Tailoring the structural, morphological, optical and dielectric properties of lead iodide through Nd doping. <i>Scientific Reports</i> , <b>2017</b> , 7, 16091	4.9	168
454	Sn-doped ZnO nanocrystalline thin films with enhanced linear and nonlinear optical properties for optoelectronic applications. <i>Journal of Physics and Chemistry of Solids</i> , <b>2017</b> , 100, 115-125	3.9	105
453	An investigation on the key features of a D $\pi$ A type novel chalcone derivative for opto-electronic applications. <i>RSC Advances</i> , <b>2015</b> , 5, 87320-87332	3.7	86
452	Tailoring the linear and nonlinear optical properties of NiO thin films through Cr <sup>3+</sup> doping. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 6446-6457	2.1	80
451	Facile microwave-assisted synthesis of tungsten-doped hydroxyapatite nanorods: A systematic structural, morphological, dielectric, radiation and microbial activity studies. <i>Ceramics International</i> , <b>2017</b> , 43, 14923-14931	5.1	79
450	Effect of thickness on the structural, optical and electrical properties of thermally evaporated PbI <sub>2</sub> thin films. <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 1309-1313	3.9	78
449	Experimental and computational studies on second-and third-order nonlinear optical properties of a novel D- $\pi$ A type chalcone derivative: 3-(4-methoxyphenyl)-1-(4-nitrophenyl) prop-2-en-1-one. <i>Optics and Laser Technology</i> , <b>2017</b> , 97, 219-228	4.2	70
448	Structural, morphological, opto-nonlinear-limiting studies on Dy:PbI <sub>2</sub> /FTO thin films derived facilely by spin coating technique for optoelectronic technology. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 130, 189-196	3.9	66
447	A facile one pot synthesis of novel pure and Cd doped PbI <sub>2</sub> nanostructures for electro-optic and radiation detection applications. <i>Optical Materials</i> , <b>2019</b> , 88, 417-423	3.3	64
446	Effect of titan yellow dye on morphological, structural, optical, and dielectric properties of zinc(tris) thiourea sulphate single crystals. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 1046-1055	2.5	63
445	Facile hydrothermal-assisted synthesis of Gd <sup>3+</sup> doped PbI <sub>2</sub> nanostructures and their characterization. <i>Materials Letters</i> , <b>2016</b> , 176, 135-138	3.3	63
444	Influence of Dy doping on key linear, nonlinear and optical limiting characteristics of SnO <sub>2</sub> films for optoelectronic and laser applications. <i>Optics and Laser Technology</i> , <b>2018</b> , 108, 609-618	4.2	60
443	A noticeable effect of Pr doping on key optoelectrical properties of CdS thin films prepared using spray pyrolysis technique for high-performance photodetector applications. <i>Ceramics International</i> , <b>2020</b> , 46, 4652-4663	5.1	60
442	A facile spray pyrolysis fabrication of Sm:CdS thin films for high-performance photodetector applications. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 306, 111952	3.9	58
441	An experimental and theoretical study on a novel donor- $\pi$ -acceptor bridge type 2, 4, 5-trimethoxy-4'-chlorochalcone for optoelectronic applications: A dual approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2017</b> , 173, 445-456	4.4	58
440	Optical spectroscopy, crystalline perfection, etching and mechanical studies on P-nitroaniline (PNA) single crystals. <i>Optical Materials</i> , <b>2014</b> , 36, 675-681	3.3	56
439	A facile synthesis of Au-nanoparticles decorated PbI single crystalline nanosheets for optoelectronic device applications. <i>Scientific Reports</i> , <b>2018</b> , 8, 13806	4.9	55

438	Facile hydrothermal synthesis and characterization of cesium-doped PbI <sub>2</sub> nanostructures for optoelectronic, radiation detection and photocatalytic applications. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	53
437	A significant enhancement in visible-light photodetection properties of chemical spray pyrolysis fabricated CdS thin films by novel Eu doping concentrations. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 301, 111749	3.9	53
436	Physico chemical properties of L-asparagine L-tartaric acid single crystals: a new nonlinear optical material. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 118, 172-6	4.4	51
435	Novel Nd-doping effect on structural, morphological, optical, and electrical properties of facilely fabricated PbI <sub>2</sub> thin films applicable to optoelectronic devices. <i>Applied Nanoscience (Switzerland)</i> , <b>2019</b> , 9, 1417-1426	3.3	49
434	Facilely synthesized Cu:PbS nanoparticles and their structural, morphological, optical, dielectric and electrical studies for optoelectronic applications. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 96, 16-23	4.3	49
433	Novel report on Glycine crystal yielding high second harmonic generation efficiency. <i>Optical Materials</i> , <b>2017</b> , 72, 590-595	3.3	49
432	Doping effect of l-cystine on structural, UV-visible, SHG efficiency, third order nonlinear optical, laser damage threshold and surface properties of cadmium thiourea acetate single crystal. <i>Optics and Laser Technology</i> , <b>2017</b> , 87, 11-16	4.2	49
431	Facile microwave-assisted synthesis of Te-doped hydroxyapatite nanorods and nanosheets and their characterizations for bone cement applications. <i>Materials Science and Engineering C</i> , <b>2017</b> , 72, 472-480	8.3	49
430	Synthesis of ZnTe Nanoparticles by Microwave Irradiation Technique, and Their Characterization. <i>Nanoscience and Nanotechnology Letters</i> , <b>2012</b> , 4, 405-408	0.8	48
429	Facile nanorods synthesis of KI:HAp and their structure-morphology, vibrational and bioactivity analyses for biomedical applications. <i>Ceramics International</i> , <b>2019</b> , 45, 50-55	5.1	48
428	Influence of tartaric acid on linear-nonlinear optical and electrical properties of KH <sub>2</sub> PO <sub>4</sub> crystal. <i>Optical Materials</i> , <b>2017</b> , 72, 1-7	3.3	47
427	Microwave-assisted synthesis of Gd <sup>3+</sup> doped PbI <sub>2</sub> hierarchical nanostructures for optoelectronic and radiation detection applications. <i>Physica B: Condensed Matter</i> , <b>2017</b> , 508, 41-46	2.8	47
426	Synthesis, growth and optical studies of novel organometallic NLO crystal: Calcium bis-thiourea chloride. <i>Optik</i> , <b>2016</b> , 127, 2137-2142	2.5	47
425	Rapid microwave-assisted synthesis of Ag-doped PbS nanoparticles for optoelectronic applications. <i>Ceramics International</i> , <b>2019</b> , 45, 21975-21985	5.1	47
424	Linear and nonlinear optical investigations of N:ZnO/ITO thin films system for opto-electronic functions. <i>Optics and Laser Technology</i> , <b>2019</b> , 112, 539-547	4.2	47
423	How does hybrid bridging core modification enhance the nonlinear optical properties in donor-acceptor configuration? A case study of dinitrophenol derivatives. <i>Journal of Computational Chemistry</i> , <b>2015</b> , 36, 118-28	3.5	46
422	Structural, linear and third order nonlinear optical properties of drop casting deposited high quality nanocrystalline phenol red thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 10573-10581	2.1	45
421	A comprehensive study of opto-electrical and nonlinear properties of Cu@CdS thin films for optoelectronics. <i>Chinese Journal of Physics</i> , <b>2020</b> , 63, 51-62	3.5	45

420	High-performance visible light photodetectors based on inorganic CZT and InCZT single crystals. <i>Scientific Reports</i> , <b>2019</b> , 9, 12436	4.9	44
419	Investigation on structural, linear, nonlinear and optical limiting properties of sol-gel derived nanocrystalline Mg doped ZnO thin films for optoelectronic applications. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1173, 375-384	3.4	44
418	Fabrication and characterization of La doped PbI <sub>2</sub> nanostructured thin films for opto-electronic applications. <i>Solid State Sciences</i> , <b>2019</b> , 90, 95-101	3.4	43
417	Effect of Gd doping on structural, optical properties, photoluminescence and electrical characteristics of CdS nanoparticles for optoelectronics. <i>Ceramics International</i> , <b>2019</b> , 45, 10133-10141	5.1	43
416	A facile one pot flash combustion synthesis of ZnO nanoparticles and their characterizations for photocatalytic applications. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1197, 610-616	3.4	42
415	Linear and Nonlinear Optics of CBD Grown Nanocrystalline F Doped CdS Thin Films For Optoelectronic Applications: An Effect of Thickness. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 5386-5395	1.9	41
414	Facile one pot synthesis of PbS nanosheets and their characterization. <i>Solid State Sciences</i> , <b>2017</b> , 70, 81-85	3.4	40
413	Facile synthesis of lead iodide nanostructures by microwave irradiation technique and their structural, morphological, photoluminescence and dielectric studies. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1110, 83-90	3.4	40
412	An investigation on structural, morphological, optical and third order nonlinear properties of facilely spray pyrolysis fabricated In:CdS thin films. <i>Superlattices and Microstructures</i> , <b>2019</b> , 133, 106202	2.8	40
411	Structural, optical and nonlinear optical studies of AZO thin film prepared by SILAR method for electro-optic applications. <i>Physica B: Condensed Matter</i> , <b>2017</b> , 523, 31-38	2.8	39
410	An effect of temperature on structural, optical, photoluminescence and electrical properties of copper oxide thin films deposited by nebulizer spray pyrolysis technique. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 74, 129-135	4.3	39
409	First principal studies of spectroscopic (IR and Raman, UV-visible), molecular structure, linear and nonlinear optical properties of L-arginine p-nitrobenzoate monohydrate (LANB): A new non-centrosymmetric material. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2017</b> , 177, 84-88	4.4	38
408	Influence of Nd <sup>3+</sup> on zinc tris-thiourea sulphate single crystal: a comparative crystal growth, structural, linear and nonlinear optical and dielectric study to explore NLO device applications. <i>Materials Research Innovations</i> , <b>2018</b> , 22, 99-106	1.9	38
407	Study on structural, linear and nonlinear optical properties of spin coated N doped CdO thin films for optoelectronic applications. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1150, 523-530	3.4	38
406	Visible light sensitive Cu doped ZnO: Facile synthesis, characterization and high photocatalytic response. <i>Materials Characterization</i> , <b>2020</b> , 165, 110387	3.9	38
405	Bulk growth of undoped and Nd <sup>3+</sup> doped zinc thiourea chloride (ZTC) monocrystal: Exploring the remarkably enhanced structural, optical, electrical and mechanical performance of Nd <sup>3+</sup> doped ZTC crystal for NLO device applications. <i>Optics and Laser Technology</i> , <b>2017</b> , 90, 190-196	4.2	37
404	Effect of Sodium Metasilicate on Structural, Optical, Dielectric and Mechanical Properties of ADP Crystal. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 62-67	9.1	37
403	Experimental and density functional theory (DFT): a dual approach to study the various important properties of monohydrated l-proline cadmium chloride for nonlinear optical applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 143, 128-35	4.4	37

402	A dual approach to study the electro-optical properties of a noncentrosymmetric L-asparagine monohydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 137, 432-41	4.4	36
401	Investigation of bandgap alteration in graphene oxide with different reduction routes. <i>Applied Surface Science</i> , <b>2020</b> , 513, 145396	6.7	36
400	Single crystal growth and enhancing effect of glycine on characteristic properties of bis-thiourea zinc acetate crystal. <i>Physica Scripta</i> , <b>2016</b> , 91, 085801	2.6	36
399	Effect of Gd <sup>3+</sup> doping on structural, morphological, optical, dielectric, and nonlinear optical properties of high-quality PbI <sub>2</sub> thin films for optoelectronic applications. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 2765-2774	2.5	36
398	Key functions analysis of a novel nonlinear optical D-πA bridge type (2E)-3-(4-Methylphenyl)-1-(3-nitrophenyl) prop-2-en-1-one chalcone: An experimental and theoretical approach. <i>Optical Materials</i> , <b>2017</b> , 72, 427-435	3.3	36
397	A facile synthesis of Bi@PbS nanosheets and their key physical properties analysis for optoelectronic technology. <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 107, 104807	4.3	36
396	A remarkable improvement in photocatalytic activity of ZnO nanoparticles through Sr doping synthesized by one pot flash combustion technique for water treatments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 587, 124340	5.1	36
395	rGO supported g-C <sub>3</sub> N <sub>4</sub> /CoFe <sub>2</sub> O <sub>4</sub> heterojunction: Visible-light-active photocatalyst for effective utilization of H <sub>2</sub> O <sub>2</sub> to organic pollutant degradation and OH radicals production. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104698	6.8	36
394	A dual responsive colorimetric and fluorescent reversible turn-on chemosensor for iron (Fe <sup>3+</sup> ): Computational and spectroscopic investigations. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 245, 395-405	8.5	35
393	A facile microwave-assisted synthesis of PbMoO <sub>4</sub> nanoparticles and their key characteristics analysis: a good contender for photocatalytic applications. <i>Materials Research Express</i> , <b>2018</b> , 5, 095032	1.7	35
392	Synthesis, growth, crystal structure, EDX, UV-Vis-NIR and DSC studies of L-proline lithium bromide monohydrate, a new semiorganic compound. <i>Journal of Crystal Growth</i> , <b>2014</b> , 391, 104-110	1.6	35
391	Effect of solvents on sol-gel spin-coated nanostructured Al-doped ZnO thin films: a film for key optoelectronic applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	33
390	A physico-chemical approach to study the experimental and theoretical properties of L-ornithine monohydrochloride: An organic nonlinear optical material. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 155, 36-46	4.4	33
389	A remarkable enhancement in photocatalytic activity of facily synthesized Terbium@Zinc oxide nanoparticles by flash combustion route for optoelectronic applications. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 1811-1823	3.3	33
388	Novel report on SHG efficiency, Z-scan, laser damage threshold, photoluminescence, dielectric and surface microscopic studies of hybrid inorganic ammonium zinc sulphate hydrate single crystal. <i>Optics and Laser Technology</i> , <b>2018</b> , 104, 83-89	4.2	32
387	Experimental and theoretical studies on bis(glycine) lithium nitrate (BGLiN): A physico-chemical approach. <i>Journal of Physics and Chemistry of Solids</i> , <b>2014</b> , 75, 959-965	3.9	32
386	Ab-initio study of L-Tartaric Acid (LTA) single crystal for NLO application. <i>Optics and Laser Technology</i> , <b>2015</b> , 74, 53-59	4.2	31
385	An effect of Zn content doping on opto-third order nonlinear characteristics of nanostructured CdS thin films fabricated through spray pyrolysis for optoelectronics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 118, 113955	3	31

384	Synthesis, growth, structural, spectroscopic, crystalline perfection, second harmonic generation (SHG) and thermal studies of 2-aminopyridinium picrate (2APP): A new nonlinear optical material. <i>Solid State Sciences</i> , <b>2012</b> , 14, 773-776	3.4	31
383	Analysis on structural, SHG efficiency, optical and mechanical properties of KDP single crystals influenced by Glycine doping. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2013</b> , 103, 199-204	4.4	31
382	A facile one-pot flash combustion synthesis of La@ZnO nanoparticles and their characterizations for optoelectronic and photocatalysis applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 395, 112465	4.7	30
381	Rare earth Sm <sup>3+</sup> co-doped AZO thin films for opto-electronic application prepared by spray pyrolysis. <i>Ceramics International</i> , <b>2018</b> , 44, 6730-6738	5.1	30
380	Effect of different solvents on the key structural, optical and electronic properties of sol-gel dip coated AZO nanostructured thin films for optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 887-897	2.1	30
379	The impact of position and number of methoxy group(s) to tune the nonlinear optical properties of chalcone derivatives: a dual substitution strategy. <i>Journal of Molecular Modeling</i> , <b>2016</b> , 22, 73	2	30
378	Rapid and simultaneous detection of Cr (III) and Fe (III) ions by a new naked eye and fluorescent probe and its application in real samples. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 251, 951-957	8.5	29
377	Facile spray pyrolysis fabrication of Al:CdS thin films and their key linear and third order nonlinear optical analysis for optoelectronic applications. <i>Optical Materials</i> , <b>2020</b> , 100, 109696	3.3	29
376	Structural, morphological, optical and third order nonlinear optical response of spin-coated NiO thin films: An effect of N doping. <i>Solid State Sciences</i> , <b>2018</b> , 86, 98-106	3.4	29
375	Experimental and computational studies of L-tartaric acid single crystal grown at optimized pH. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1170, 151-159	3.4	29
374	Linear and nonlinear optical analysis on semiorganic L-proline cadmium chloride single crystal. <i>Chinese Physics B</i> , <b>2018</b> , 27, 047801	1.2	28
373	Crystal growth, structural, crystalline perfection, optical and mechanical properties of Nd <sup>3+</sup> doped sulfamic acid (SA) single crystals. <i>Journal of Crystal Growth</i> , <b>2013</b> , 380, 228-235	1.6	28
372	Evaluate the effect of L-valine on linear/nonlinear optical and electrical properties of BTCA crystal to identify photonic device applications. <i>Materials Research Innovations</i> , <b>2016</b> , 20, 312-316	1.9	28
371	Microwave-synthesis of La <sup>3+</sup> doped PbI <sub>2</sub> nanosheets (NSs) and their characterizations for optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 15838-15846	2.1	27
370	Influence of interparticle interaction on the structural, optical and magnetic properties of NiO nanoparticles. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 552, 88-95	2.8	27
369	Organic semiconductor photodiode based on indigo carmine/n-Si for optoelectronic applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	27
368	Synchronized effect of Ca <sup>2+</sup> ion doping concentration on structural, UV-vis and second harmonic generation efficiency of zinc thiourea chloride (ZTC) crystal: An interesting comparative study. <i>Optik</i> , <b>2017</b> , 142, 421-425	2.5	26
367	In-depth quantum chemical investigation of electro-optical and charge-transport properties of trans-3-(3,4-dimethoxyphenyl)-2-(4-nitrophenyl)prop-2-enitrile. <i>Comptes Rendus Chimie</i> , <b>2015</b> , 18, 1289-1296	2.7	26

366	Effect of solvent on the key properties of Al doped ZnO films prepared by nebulized spray pyrolysis technique. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 212, 167-174	4.4	26
365	A comparative study of key properties of glycine glycinium picrate (GGP) and glycinium picrate (GP): A combined experimental and quantum chemical approach. <i>Journal of Saudi Chemical Society</i> , <b>2018</b> , 22, 352-362	4.3	26
364	Density functional study of spectroscopy, electronic structure, linear and nonlinear optical properties of l-proline lithium chloride and l-proline lithium bromide monohydrate: For laser applications. <i>Arabian Journal of Chemistry</i> , <b>2019</b> , 12, 2336-2346	5.9	26
363	Investigation on the key features of L-Histidinium 2-nitrobenzoate (LH2NB) for optoelectronic applications: A comparative study. <i>Journal of King Saud University - Science</i> , <b>2017</b> , 29, 70-83	3.6	25
362	Studies on copper oxide thin films prepared by simple nebulizer spray technique. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 6754-6762	2.1	25
361	Doping effect of carboxylic acids on optical, electrical, mechanical and thermal traits of KDP crystal. <i>Materials Research Innovations</i> , <b>2017</b> , 21, 439-446	1.9	25
360	Combined experimental and computational insights into the key features of L-alanine L-alaninium picrate monohydrate: growth, structural, electronic and nonlinear optical properties. <i>RSC Advances</i> , <b>2015</b> , 5, 53988-54002	3.7	25
359	Evaluation of the structural, optical and electrical properties of AZO thin films prepared by chemical bath deposition for optoelectronics. <i>Solid State Sciences</i> , <b>2018</b> , 78, 58-68	3.4	25
358	Systematic analysis on linear and nonlinear optical traits of citrulline doped NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> (ADP) crystal. <i>Optik</i> , <b>2018</b> , 154, 435-440	2.5	25
357	Study of pure and l-tartaric acid doped ammonium dihydrogen phosphate single crystals: A novel nonlinear optical non-centrosymmetric crystal. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 144, 293-300	4.4	25
356	A first principles study of key electronic, optical, second and third order nonlinear optical properties of 3-(4-chlorophenyl)-1-(pyridin-3-yl) prop-2-en-1-one: a novel D-(pi)-A type chalcone derivative. <i>Journal of Computational Electronics</i> , <b>2018</b> , 17, 9-20	1.8	25
355	Impact of Se doping on optical and third-order nonlinear optical properties of spray pyrolysis fabricated CdS thin films for optoelectronics. <i>Applied Physics B: Lasers and Optics</i> , <b>2020</b> , 126, 1	1.9	24
354	Effect of spray pressure on optical, electrical and solar cell efficiency of novel Cu <sub>2</sub> O thin films. <i>Surface and Coatings Technology</i> , <b>2018</b> , 347, 164-172	4.4	24
353	VGF bulk growth, crystalline perfection and mechanical studies of CdZnTe single crystal: A detector grade materials. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 686, 438-446	5.7	24
352	Structural, Linear and Third Order Nonlinear Optical Properties of Sol-Gel Grown Ag-CdS Nanocrystalline Thin Films. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 1122-1132	1.9	24
351	Novel rare earth Gd and Al co-doped ZnO thin films prepared by nebulizer spray method for optoelectronic applications. <i>Superlattices and Microstructures</i> , <b>2018</b> , 123, 311-322	2.8	24
350	Analysis of the x-ray diffraction, etching, luminescence, photoconductivity, thermal and dielectric properties of an ADP crystal influenced by the bimetallic additive sodium metasilicate (Na <sub>2</sub> SiO <sub>3</sub> ). <i>Materials Research Express</i> , <b>2016</b> , 3, 106204	1.7	23
349	Effect of l-alanine, Mn(II) and glycine dopants on the structural, crystalline perfection, second harmonic generation (SHG), dielectric and mechanical properties of BTCA single crystals. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 137, 276-281	4.4	23

- 348 A One Pot Room Temperature Synthesis of Pure and Zn Doped PbI<sub>2</sub> Nanostructures and Their Structural, Morphological, Optical, Dielectric and Radiation Studies. *Journal of Nanoelectronics and Optoelectronics*, **2019**, 14, 255-260 1.3 23
- 347 Optical and electrical analysis of Cu<sup>2+</sup> ion doped zinc thiourea chloride (ZTC) crystal: An outstanding 30 × 24 × 4 mm<sup>3</sup> bulk monocrystal grown from pH controlled aqueous solution. *Optik*, **2017**, 137, 31-36 2.5 22
- 346 An in-depth study on physical properties of facilely synthesized Dy@CdS NPs through microwave route for optoelectronic technology. *Materials Science in Semiconductor Processing*, **2020**, 118, 105184 4.3 22
- 345 Fabrication of Eu doped CdO [Al/Eu-nCdO/p-Si/Al] photodiodes by perfume atomizer based spray technique for opto-electronic applications. *Journal of Molecular Structure*, **2018**, 1160, 311-318 3.4 22
- 344 Development of SnS (FTO/CdS/SnS) thin films by nebulizer spray pyrolysis (NSP) for solar cell applications. *Journal of Molecular Structure*, **2018**, 1152, 137-144 3.4 22
- 343 Nonlinear optical and microscopic analysis of Cu<sup>2+</sup> doped zinc thiourea chloride (ZTC) monocrystal. *Optics and Laser Technology*, **2018**, 99, 197-202 4.2 22
- 342 Brilliant green dye added zinc(tris) thiourea sulphate monocrystal growth with enhanced crystalline perfection, optical, photoluminescence and mechanical properties. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 10673-10683 2.1 22
- 341 Crystal growth and characterization of second- and third-order nonlinear optical chalcone derivative: (2E)-3-(5-bromo-2-thienyl)-1-(4-nitrophenyl)prop-2-en-1-one. *Journal of Applied Crystallography*, **2018**, 51, 1035-1042 3.8 22
- 340 Optical analysis of nanostructured rose bengal thin films using Kramers-Kronig approach: New trend in laser power attenuation. *Optics and Laser Technology*, **2019**, 112, 207-214 4.2 22
- 339 An investigation on optical-nonlinear and optical limiting properties of CdS: an effect of Te doping concentrations for optoelectronic applications. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 17469-17480 2.1 21
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215	Effect of Ni <sup>2+</sup> doping on structural, optical, mechanical and dielectric properties of ammonium dihydrogen phosphate (ADP) single crystals: A novel NLO material. <i>Optik</i> , <b>2016</b> , 127, 5479-5485	2.5	8
214	Transition metal (Mn) and rare earth (Nd) di-doped novel ZnO nanoparticles: a facile sol-gel synthesis and characterization. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 13077-13086	2.1	8
213	Facile fabrication and characterization of modified spray deposited cadmium sulphide thin films. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 571, 64-70	2.8	8
212	Elucidating the impact of PbI <sub>2</sub> on photophysical and electrical properties of poly(3-hexythiophene). <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 120, 105272	4.3	8
211	Investigation of samarium-doped PbS thin films fabricated using nebulizer spray technique for photosensing applications. <i>Superlattices and Microstructures</i> , <b>2020</b> , 148, 106723	2.8	8
210	Enhancement in photodetection properties of PbI <sub>2</sub> with graphene oxide doping for visible-light photodetectors. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 314, 112223	3.9	8
209	Noticeable impact of Er doping on structural, vibrational, optical, dielectric and electrical parameters of flash combustion synthesized NiO NPs for optoelectronic applications. <i>Inorganic Chemistry Communication</i> , <b>2020</b> , 121, 108229	3.1	8
208	A novel terbium doping effect on physical properties of lead sulfide nanostructures: A facile synthesis and characterization. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 2664-2675	2.5	8
207	One-spot fabrication and in-vivo toxicity evaluation of core-shell magnetic nanoparticles. <i>Materials Science and Engineering C</i> , <b>2021</b> , 122, 111898	8.3	8
206	Influence of substrate temperature on the SnS absorber thin films and SnS/CdS heterostructure prepared through aerosol assisted nebulizer spray pyrolysis. <i>Materials Research Express</i> , <b>2019</b> , 6, 026412	1.7	8
205	An Investigation on Microstructural, Morphological, Optical, Photoluminescence and Photocatalytic Activity of WO <sub>3</sub> for Photocatalysis Applications: An Effect of Annealing. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 1217-1230	3.2	8

204	Impact of reducing agents on the ammonia sensing performance of silver decorated reduced graphene oxide: Experiment and first principles calculations. <i>Applied Surface Science</i> , <b>2021</b> , 558, 149886	6.7	8
203	Fabrication of Ag/Ag <sub>2</sub> O incorporated graphitic carbon nitride based ZnO nanocomposite for enhanced Z-scheme photocatalytic performance of various organic pollutants and bacterial disinfection. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105996	6.8	8
202	Analysis of Pr co-doped Al:ZnO thin films using feasible nebulizer spray technique for optoelectronic technology. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	7
201	Noble Metal Nanoparticles Incorporated Siliceous TUD-1 Mesoporous Nano-Catalyst for Low-Temperature Oxidation of Carbon Monoxide. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
200	Effect of potential voltages on key functional properties of transparent AZO thin films prepared by electrochemical deposition method for optoelectronic applications. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 1523-1533	2.5	7
199	Investigation on nebulizer spray coated Nd-doped SnS <sub>2</sub> thin films for solar cell window layer application. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 13964-13973	2.1	7
198	Characterization of ZnSe single crystal grown by VBT using two zone tubular furnace: An excellent material for optoelectronic devices. <i>Optik</i> , <b>2013</b> , 124, 985-989	2.5	7
197	One-pot flash combustion synthesis of Fe@NiO nanocomposites for supercapacitor applications. <i>Ceramics International</i> , <b>2021</b> , 47, 9024-9033	5.1	7
196	Microwave-assisted synthesis of Cu doped PbS nanostructures with enhanced dielectric and electrical properties for optoelectronic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2021</b> , 271, 115268	3.1	7
195	The effect of rare earth Nd <sup>3+</sup> doping on physical characteristics of Cu <sub>2</sub> O thin films derived by electrodeposition technique. <i>Thin Solid Films</i> , <b>2019</b> , 683, 82-89	2.2	6
194	Enhancement in the photoluminescence, linear and third order nonlinear optical properties of nanostructured Na-CdS thin films for optoelectronic applications. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	6
193	Development and characterization of TlGaSe <sub>2</sub> thin film-based photodetector for visible-light photodetector applications. <i>Optical Materials</i> , <b>2020</b> , 103, 109834	3.3	6
192	Designing of TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> coupled g-C <sub>3</sub> N <sub>4</sub> Magnetic separable ternary heterostructure composite for Efficient Z-Scheme Photo degradation process under visible light exposures. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 894, 162498	5.7	6
191	Exploration of the spray deposited Cadmium Telluride thin films for optoelectronic devices. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 580, 411831	2.8	6
190	Effect of La incorporation on the NH <sub>3</sub> sensing behaviour of ZnO thin films prepared using low-cost nebulizer spray technique. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 13240-13248	2.1	6
189	Novel rare earth Dy doping impact on physical properties of PbI <sub>2</sub> nanostructures synthesized by microwave route for optoelectronics. <i>Materials Characterization</i> , <b>2020</b> , 170, 110688	3.9	6
188	Facile Synthesis and Characterization of Zinc Oxide Nanoparticles Using Psidium guajava leaf Extract and Their Antibacterial Applications. <i>Arabian Journal for Science and Engineering</i> , 1	2.5	6
187	Facile fabrication of novel nanostructured Au@PbI <sub>2</sub> thin films and their structure, optical and NLO studies for higher order nonlinear applications. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 265, 124458	4.4	6



186	In-depth analysis on Erbium co-doped CdO:Zn films deposited by nebulizer method for opto-electronic applications. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1212, 128148	3.4	6
185	Screen printed novel ZnO/MWCNTs nanocomposite thick films. <i>Ceramics International</i> , <b>2021</b> , 47, 6084-6093	3.3	6
184	Tuning the Optical, Electrical, and Optoelectronic Properties of CuO Thin Films Fabricated by Facile SILAR Dip-Coating Technique for Photosensing Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 2606-2614	3.2	6
183	Investigation on novel Cu <sub>2</sub> O modified g-C <sub>3</sub> N <sub>4</sub> /ZnO heterostructures for efficient photocatalytic dye degradation performance under visible-light exposure. <i>Colloids and Interface Science Communications</i> , <b>2021</b> , 44, 100480	5.4	6
182	A facile co-precipitation synthesis of novel WO <sub>3</sub> /NiWO <sub>4</sub> nanocomposite with improved photocatalytic activity. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 133, 105970	4.3	6
181	Highly photocatalytic active r-GO/Fe <sub>3</sub> O <sub>4</sub> nanocomposites development for enhanced photocatalysis application: A facile low-cost preparation and characterization. <i>Ceramics International</i> , <b>2021</b> , 47, 31973-31982	5.1	6
180	Bulk growth, structural, vibrational, crystalline perfection, optical and dielectric properties of L-threonine doped KDP single crystals grown by Sankaranarayanan-Ramasamy (SR) method. <i>Materials Research Innovations</i> , <b>2017</b> , 21, 106-114	1.9	5
179	A noticeable effect of novel Nd <sup>3+</sup> doping on physical properties of nebulizer spray deposited AZO thin films for optoelectronic technology. <i>Optical and Quantum Electronics</i> , <b>2019</b> , 51, 1	2.4	5
178	Investigation on physical properties of CdO thin films affected by Tb doping for optoelectronics. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	5
177	An effect of La doping on physical properties of CdO films facily casted by spin coater for optoelectronic applications. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 562, 135-140	2.8	5
176	Opto-dielectric-nonlinear properties of Na <sub>2</sub> Zn <sub>2</sub> NdS alloys nanostructure thin films: Role of Zn doping. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 588, 412194	2.8	5
175	Influence of yttrium doping on microstructural and optical properties of FTO thin films prepared by nebulizer spray technique. <i>Materials Today Communications</i> , <b>2020</b> , 24, 101087	2.5	5
174	Structure, morphology and opto-nonlinear behaviors of Nd:PbI <sub>2</sub> /FTO thin film system for optoelectronics. <i>Solid State Sciences</i> , <b>2020</b> , 103, 106192	3.4	5
173	Molecular structure, vibrational, optical, molecular first order hyperpolarizability analysis of {Dibromobis(l-proline)zinc(II)}: A novel nonlinear optical material. <i>Optik</i> , <b>2016</b> , 127, 2852-2860	2.5	5
172	Enhancement in photovoltaic properties of Nd:SnS films prepared by low-cost NSP method. <i>Rare Metals</i> , <b>2019</b> , 1	5.5	5
171	Nebulizer spray assisted chemical vapour deposited (NACVD) tin disulfide (SnS <sub>2</sub> ) thin films for solar cell window layer applications. <i>Materials Research Express</i> , <b>2019</b> , 6, 096422	1.7	5
170	Silk-Templated Nanomaterial Interfaces for Wearables and Bioelectronics: Advances and Prospects	68-86	5
169	Enhanced photocatalytic activities of facile auto-combustion synthesized ZnO nanoparticles for wastewater treatment: An impact of Ni doping. <i>Chemosphere</i> , <b>2021</b> , 291, 132687	8.4	5

168	An in-depth investigation of physical properties of Nd doped CdS thin films for optoelectronic applications. <i>Chinese Journal of Physics</i> , <b>2020</b> , 67, 681-694	3.5	5
167	A Facile Fabrication, Microstructural, Optical, Photoluminescence and Electrical Properties of Ni@CeO <sub>2</sub> Films and p-Si/n-NDC Diodes for Photodetection Application. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 2280-2292	3.2	5
166	Photocatalytic degradation mechanism of Ce-loaded ZnO catalysts toward methyl green dye pollutant. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	5
165	Tailoring the structure-morphology-vibrational-optical-dielectric and electrical characteristics of Ce@NiO NPs produced by facile combustion route for optoelectronics. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 126, 105647	4.3	5
164	Enhancement the photocatalytic performance of semiconductors through composite formation with Eu-TUD-1. <i>Optik</i> , <b>2020</b> , 202, 163522	2.5	5
163	Effect of deposition temperature on key optoelectronic properties of electrodeposited cuprous oxide thin films. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1	2.4	5
162	Optimization of Mono-Crystalline Silicon Solar Cell Devices Using PC1D Simulation. <i>Energies</i> , <b>2021</b> , 14, 4986	3.1	5
161	Designing Ag <sub>2</sub> O modified g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> ternary nanocomposites for photocatalytic organic pollutants degradation performance under visible light: Synergistic mechanism insight. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 629, 127472	5.1	5
160	Enhanced room temperature ammonia gas sensing properties of Al-doped ZnO nanostructured thin films. <i>Optical and Quantum Electronics</i> , <b>2020</b> , 52, 1	2.4	4
159	Linear, third order nonlinear optical and photoluminescence properties of Cd <sub>0.99</sub> Zn <sub>0.09</sub> S/ZnO nanocomposite thin films for optoelectronics applications. <i>Surfaces and Interfaces</i> , <b>2020</b> , 20, 100561	4.1	4
158	Remarkable effect of Ni <sup>2+</sup> -doping on structural, second harmonic generation, optical, mechanical and dielectric properties of KDP single crystals. <i>Physica B: Condensed Matter</i> , <b>2016</b> , 491, 1-11	2.8	4
157	Effect of N <sup>5+</sup> ion irradiation on l-ornithine monohydrochloride single crystals: an organic nonlinear optical material. <i>Radiation Effects and Defects in Solids</i> , <b>2014</b> , 169, 954-964	0.9	4
156	Structural Investigation on R6G Dye and PbI <sub>2</sub> Doped KDP Single Crystals by Using Powder X-ray Diffraction. <i>Advanced Science, Engineering and Medicine</i> , <b>2012</b> , 4, 415-420	0.6	4
155	Facile microwave-assisted synthesis of Al:Mn co-doped PbI <sub>2</sub> nanosheets: structural, vibrational, morphological, dielectric and radiation activity studies. <i>Materials Science-Poland</i> , <b>2018</b> , 36, 320-326	0.6	4
154	Analysis of neodymium rare earth element doping in PbS films for opto-electronics applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 1817-1827	2.1	4
153	Noticeable enhancement in NH <sub>3</sub> sensing performance of nebulizer spray pyrolysis deposited SnO <sub>2</sub> thin films: An effect of Tb doping. <i>Superlattices and Microstructures</i> , <b>2021</b> , 154, 106868	2.8	4
152	Effect of Co <sup>2+</sup> doping on solubility, crystal growth and properties of ADP crystals. <i>Journal of Crystal Growth</i> , <b>2016</b> , 449, 47-56	1.6	4
151	Geometrical, vibrational and physical properties of polyvinyl chloride nanocomposites: Molecular modeling approach. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2019</b> , 18, 1950037	1.8	4

150	Growth and optimization of optical traits of copper sulphate crystal exploiting L-ascorbic acid for photonic device applications. <i>Chinese Journal of Physics</i> , <b>2021</b> , 71, 168-174	3.5	4
149	Single-step fabrication of Na-TUD-1 novel heterogeneous base nano-catalyst for Knoevenagel condensation reaction. <i>Journal of Nanostructure in Chemistry</i> , <b>2021</b> , 11, 259-269	7.6	4
148	Effect of Gd <sup>3+</sup> Doping on Linear and Nonlinear Optical Properties of PbI <sub>2</sub> /FTO Thin Films for Optoelectronic and Nonlinear Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 566-576	3.2	4
147	Enhanced Photocatalytic Decomposition Efficacy of Novel MgO NPs: Impact of Annealing Temperatures. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 3027	3.2	4
146	Key optoelectronic properties of Diiodo-bis(carbamide)-zinc(II): An experimental and computational investigation. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1156, 146-155	3.4	4
145	A comprehensive study on effect of annealing on structural, morphological and optical properties of CdO and photodetection of heterojunction n-CdO/p-Si diode. <i>Optik</i> , <b>2021</b> , 241, 166406	2.5	4
144	Enriched optoelectronic properties of cobalt-doped ZnO thin films for photodetector applications. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	4
143	Fabricating SnO <sub>2</sub> and Cu <sub>2</sub> O anchored on g-C <sub>3</sub> N <sub>4</sub> nanocomposites for superior photocatalytic various organic pollutants degradation under simulated sunlight exposure. <i>Diamond and Related Materials</i> , <b>2021</b> , 120, 108606	3.5	4
142	Morphology-dependent MoO/Ni-F nanostructures with enhanced electrochemical hydrogen peroxide detection. <i>Chemosphere</i> , <b>2022</b> , 287, 131960	8.4	4
141	Enhanced optoelectronic, thermal, mechanical and third order nonlinear optical properties of dichlorobis(thiourea)zinc(II) crystal: an effect of Phenol red dye. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 5733-5745	2.1	3
140	Facilely fabricated Sr@NiO/FTO films and their characterizations for opto-nonlinear applications. <i>Chinese Journal of Physics</i> , <b>2020</b> , 66, 91-101	3.5	3
139	Emission and opto-dielectric nonlinearity in 2D Cd <sub>2</sub> nO <sub>2</sub> nanostructures: an effect of Na doping. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 12116-12126	2.1	3
138	Experimental analysis of pure and l-tyrosine influenced bis-thiourea zinc acetate (BTZA) crystal for NLO device applications. <i>Optik</i> , <b>2020</b> , 220, 165100	2.5	3
137	Opto-electronic properties of cerium-doped FTO thin films prepared using Nebulizer spray technique for TCO application. <i>Optik</i> , <b>2020</b> , 213, 164769	2.5	3
136	Transfiguring structural, optical and dielectric properties of cadmium thiourea acetate crystal by the addition of L-threonine for laser assisted device applications. <i>Materials Research Express</i> , <b>2018</b> , 5, 036204	1.7	3
135	Phenol red dyed bis thiourea cadmium acetate monocrystal growth and characterization for optoelectronic applications. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 2364-2375	2.5	3
134	Enhanced photoresponsivity of anatase titanium dioxide (TiO <sub>2</sub> )/nitrogen-doped graphene quantum dots (N-GQDs) heterojunction-based photodetector. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 1354	8.7	3
133	Improved UV photosensing properties of high crystalline nickel oxide thin films: Role of yttrium doping. <i>Optik</i> , <b>2021</b> , 248, 168105	2.5	3

132	In doping effect on the structural, morphological, optical and enhanced antimicrobial activity of facily synthesized novel CuS nanostructures. <i>Surfaces and Interfaces</i> , <b>2021</b> , 27, 101536	4.1	3
131	A facile microwave-assisted synthesis of novel ZnMn <sub>2</sub> O <sub>4</sub> nanoparticles and their structural, morphological, optical, surface area, and dielectric studies. <i>Indian Journal of Physics</i> , <b>2021</b> , 95, 43-49	1.4	3
130	Comparative analysis of pristine and Cd <sup>2+</sup> influenced potassium acid phthalate single crystal for photonic device applications. <i>Optik</i> , <b>2020</b> , 203, 163903	2.5	3
129	Tailoring the properties of nebulizer spray pyrolysis coated FTO thin films through rare earth element terbium for optoelectronic applications. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 580, 411916	2.8	3
128	Synthesis and emission characteristics of lead-free novel Cs <sub>4</sub> SnBr <sub>6</sub> /SiO <sub>2</sub> nanocomposite. <i>Materials Letters</i> , <b>2020</b> , 280, 128562	3.3	3
127	Improved Photodetection Performance of Nanostructured CdS Films Based Photodetectors Via Novel Er Doping. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 3880-3893	3.2	3
126	Fabrication of NiS decorated hollow SnS nano-belts based photodiode for enhanced optoelectronic applications. <i>Journal of Nanoparticle Research</i> , <b>2021</b> , 23, 1	2.3	3
125	Exploring linear-nonlinear optical, dielectric and microscopic traits of sulphamic acid crystal exploiting Zn <sup>2+</sup> for photonic device applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 16445-16455	2.1	3
124	Influence of rare earth material (Sm <sup>3+</sup> ) doping on the properties of electrodeposited Cu <sub>2</sub> O films for optoelectronics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 2530-2537	2.1	3
123	Improving carrier transport in strontium-doped cuprous oxide thin films prepared by Nebulizer spray pyrolysis for solar cell applications. <i>Indian Journal of Physics</i> , <b>2020</b> , 94, 1527-1535	1.4	3
122	Synthesis of NiO nanoparticles by thermal routes for adsorptive removal of crystal violet dye from aqueous solutions. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2021</b> , 101, 1126-1144	1.8	3
121	A noticeable consistent improvement in photocatalytic efficiency of hazardous textile dye through facile flash combustion synthesized Li-doped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 3437-3450	2.1	3
120	Excellent improvement in photocatalytic nature of ZnO nanoparticles via Fe doping content. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 130, 108668	3.1	3
119	Effect of Er doping on linear and nonlinear optical properties of NiO films. <i>Chinese Journal of Physics</i> , <b>2021</b> , 72, 547-557	3.5	3
118	Performance analysis of SnS thin films fabricated using thermal evaporation technique for photodetector applications. <i>Optik</i> , <b>2021</b> , 244, 167460	2.5	3
117	Design and fabrication of graphene anchored CeO <sub>2</sub> hybrid nanocomposite electrodes for high performance energy storage device applications. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 132, 108838 <sup>3.1</sup>		3
116	Facile fabrication of Ag/Y: CdS/Ag thin films-based photodetectors with enhanced photodetection performance. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 331, 112890	3.9	3
115	Structural, vibrational, morphological, optical and electrical properties of NiS and fabrication of SnS/NiS nanocomposite for photodetector applications. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 133, 108882	3.1	3

114	Tailoring of band gap, dielectric and antimicrobial properties of silver iodide nanoparticles through Cu doping. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 137, 106239	4.3	3
113	Investigation on nebulizer spray deposited Gd-doped PbS thin films for photo sensing applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 18858-18865	2.1	2
112	A simple, low-cost modified drop-casting method to develop high-quality CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite thin films. <i>Physica B: Condensed Matter</i> , <b>2022</b> , 630, 413678	2.8	2
111	Photoelectrochemical properties and photocatalytic degradation of methyl orange dye by different ZnO nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	2
110	Hydrothermal synthesis of CuO/g-C <sub>3</sub> N <sub>4</sub> nanosheets for visible-light driven photodegradation of methylene blue. <i>Diamond and Related Materials</i> , <b>2021</b> , 121, 108735	3.5	2
109	Computational investigations on efficient metal-free organic D- $\pi$ A dyes with different spacers for powerful DSSCs applications. <i>Molecular Simulation</i> , 1-10	2	2
108	Copper Oxide Nanorod/Reduced Graphene Oxide Composites for NH <sub>3</sub> Sensing. <i>ACS Applied Nano Materials</i> ,	5.6	2
107	Enhanced dielectric and electrical properties of PbS nanostructures facilely synthesized by low-cost chemical route: An effect of Ce doping concentrations. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 278, 125626	4.4	2
106	TiO <sub>2</sub> -CeO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> -scheme heterostructure composite for enhanced photo-degradation and hydrogen evolution performance with combined experimental and DFT study. <i>Chemosphere</i> , <b>2021</b> , 132611	8.4	2
105	Auto combustion synthesis and characterization of Co doped ZnO nanoparticles with boosted photocatalytic performance. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 625, 413459	2.8	2
104	An impact of novel Terbium (Tb) doping on key opto-nonlinear optical characteristics of spray pyrolyzed NiO nanostructured films for opto-nonlinear applications. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 138, 106260	4.3	2
103	Spray pyrolysis deposited K@CdS nanostructured films and their characterizations for optoelectronic and 3rd order nonlinear optical applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 20101-20112	2.1	2
102	Microwave-assisted synthesis of Mg:PbI <sub>2</sub> nanostructures and their structural, morphological, optical, dielectric and electrical properties for optoelectronic technology. <i>Chinese Physics B</i> , <b>2020</b> , 29, 116102	1.2	2
101	Enhancement in optoelectronic nature of facile spray fabricated Ce co-doped CdO:Zn films for TCO applications. <i>Optik</i> , <b>2020</b> , 223, 165408	2.5	2
100	An in-depth examination of opto-electrical properties of In-Yb <sub>2</sub> O <sub>3</sub> thin films and fabricated Al/In-Yb <sub>2</sub> O <sub>3</sub> /p-Si (MIS) hetero junction diodes. <i>Applied Nanoscience (Switzerland)</i> , <b>2021</b> , 11, 1617-1635	3.3	2
99	A systematic influence of Cu doping on structural and opto-electrical properties of fabricated Yb <sub>2</sub> O <sub>3</sub> thin films for Al/Cu-Yb <sub>2</sub> O <sub>3</sub> /p-Si Schottky diode applications. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 129, 108646	3.1	2
98	Ultrafast one step direct injection flame synthesis of zinc oxide nanoparticles and fabrication of p-Si/n-ZnO photodiode and characterization. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 612, 412971	2.8	2
97	Physical and electrical properties evaluation of SnS:Cu thin films. <i>Surface Engineering</i> , <b>2021</b> , 37, 137-147	2.6	2

96	Study of Optical and Electrical Properties of Graphene Oxide. <i>Materials Today: Proceedings</i> , <b>2021</b> , 36, 730-735	1.4	2
95	Synthesis, characterization, and photoluminescence property of Nd-TUD-1. <i>Luminescence</i> , <b>2021</b> , 36, 192-199	1.9	2
94	Effect of Ag S nanoparticles on optical, photophysical, and electrical properties of P3HT thin films. <i>Luminescence</i> , <b>2021</b> , 36, 761-768	2.5	2
93	A facile fabrication of Sn-doped CeO <sub>2</sub> nanocrystalline thin films with enhanced photodiode properties for optoelectronic applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	2
92	Facile synthesis of Cu <sub>1</sub> -Co Fe <sub>2</sub> O <sub>4</sub> (0.1:0.5) nanoparticles with enhanced magnetic and photocatalytic performances for organic dye degradation. <i>Advanced Powder Technology</i> , <b>2021</b> ,	4.6	2
91	Design and fabrication of Cu <sub>2</sub> P <sub>2</sub> O <sub>7</sub> @Ppy electrode for extraordinary capacitance and long-term stability for ideal asymmetric supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 24736	2.1	2
90	Investigation on photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> decorated Fe <sub>2</sub> O <sub>3</sub> nanostructure synthesized by hydrothermal method for the visible-light assisted degradation of organic pollutant. <i>Diamond and Related Materials</i> , <b>2022</b> , 109021	3.5	2
89	Modulation of optical, photophysical and electrical properties of poly(3-hexylthiophene) via Gd:CdS nanoparticles. <i>Optik</i> , <b>2022</b> , 260, 169092	2.5	2
88	Phenol red dyed Bis thiourea Zinc acetate crystal growth and characterization for electro-optic applications. <i>Optik</i> , <b>2018</b> , 158, 997-1005	2.5	1
87	Investigation on structural, optical and photovoltaic properties of Barium doped cuprous oxide thin films by nebulizer spray technique. <i>Materials Research Express</i> , <b>2019</b> , 6, 115055	1.7	1
86	Facile synthesis of Mn-doped ZnO nanoparticles by flash combustion route and their characterizations for optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2022</b> , 33, 3849	2.1	1
85	Optical characteristics of ZnO films under different thickness: A MATLAB- based computer calculation for photovoltaic applications. <i>Physica B: Condensed Matter</i> , <b>2022</b> , 631, 413614	2.8	1
84	Impact of Substrate Temperature on Structural, Electric and Optical Characteristics of CuO Thin Films Grown by JNS Pyrolysis Technique. <i>Silicon</i> , 1	2.4	1
83	Synthesis of Fe <sub>3</sub> O <sub>4</sub> -decorated SiO <sub>2</sub> nanostructure using rice husk as a source by microwave combustion for the development of a magnetically recoverable adsorbent. <i>Ceramics International</i> , <b>2022</b> , 48, 10339-10339	5.1	1
82	An effect of metal ions (Cu, Mn) doping on the structural, morphological, optical, photoluminescence, electrical and photocatalytic properties of In <sub>2</sub> S <sub>3</sub> nanoparticles. <i>Optical Materials</i> , <b>2022</b> , 124, 111769	3.3	1
81	Effect of Ag doping on structural, morphological and optical properties of CdO nanostructured thin films. <i>Physica B: Condensed Matter</i> , <b>2022</b> , 413762	2.8	1
80	Tailoring the linear/nonlinear optical and visible shielding performance of PVP/PVOH incorporated with NiO nanoparticles for optical devices. <i>Optik</i> , <b>2021</b> , 168373	2.5	1
79	Enhanced triethylamine gas sensing and photocatalytic performance of Sn doped NiO (SNO) nanoparticles. <i>Inorganic Chemistry Communication</i> , <b>2022</b> , 136, 109104	3.1	1

78	Facile low temperature synthesis of homogeneous CuS nanosheets: An effect of Ga loading on structural, optical, nonlinear and antimicrobial properties. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 277, 125552	4.4	1
77	High sensitive samarium-doped ZnS thin films for photo-detector applications. <i>Optical Materials</i> , <b>2021</b> , 122, 111649	3.3	1
76	Facile microwave synthesis of bismuth molybdate nanostructures and their characterization for optoelectronic applications. <i>Solid State Sciences</i> , <b>2020</b> , 107, 106361	3.4	1
75	Synthesis of Single-Phase MoO <sub>3</sub> -Nanoparticles Using Various Acids for the Fabrication of n-MoO <sub>3</sub> /p-Si Junction Diode. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 2638-2647	3.2	1
74	Seed supported solution growth and characterization of L-alanine single crystals for optoelectronics. <i>Journal of Crystal Growth</i> , <b>2021</b> , 560-561, 126041	1.6	1
73	Facile Synthesis of Indium Doped Tin Oxide (ITO) Nanoparticles and Development of a p-Si/n-ITO Photodiode for Optoelectronic Applications. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 3937-3948	1.9	1
72	Exploration of key physical properties of Sanakaranarayan - Ramasamy (SR) grown GZS single crystal for optoelectronic applications. <i>Optik</i> , <b>2019</b> , 179, 207-215	2.5	1
71	Enhanced room-temperature ammonia vapor-sensing activity of nebulizer spray pyrolysis fabricated SnO <sub>2</sub> thin films: an effect of Er doping. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 657-667	2.5	1
70	Facile fabrication and characterization of nanostructured Y: CdO thin films. <i>Journal of Sol-Gel Science and Technology</i> , <b>2021</b> , 97, 697-705	2.3	1
69	Microwave assisted synthesis of quantum dots like ZnS nanoparticles for optoelectronic applications: An effect of CTAB concentrations. <i>Optik</i> , <b>2021</b> , 240, 166812	2.5	1
68	Solvent-free facile fabrication of gold nanoparticles loaded carbon nitride and their photocatalytic performance under visible light illumination. <i>Optik</i> , <b>2021</b> , 241, 167205	2.5	1
67	Influence of carrier gas pressure on the characteristics of nebulizer-sprayed Cu <sub>2</sub> ZnSnS <sub>4</sub> absorber thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 25493	2.1	1
66	Facile synthesis, characterization, and photoluminescence property of lanthanum incorporated TUD-1. <i>Optik</i> , <b>2021</b> , 241, 166925	2.5	1
65	Enhanced opto-non-linear properties of low cost deposited pure and Ni@PbI <sub>2</sub> /glass nanostructured thin films for higher order non-linear applications. <i>Journal of Physics and Chemistry of Solids</i> , <b>2021</b> , 157, 110197	3.9	1
64	Basic deposition methods of thin films**. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1241, 130606	3.4	1
63	Exploring the impact of HgI <sub>2</sub> doping on optical, structural and morphological properties of pure CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 132, 108851	3.1	1
62	Improved optoelectronic performance of sol-gel derived ZnO nanostructured thin films. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 132, 108812	3.1	1
61	Polymorphism induced magnetic transitions in Ni(OH) <sub>2</sub> nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 539, 168364	2.8	1

60	Effect of organic capping on defect induced ferromagnetism in ZnO nanoparticles. <i>Physica B: Condensed Matter</i> , <b>2022</b> , 624, 413379	2.8	1
59	A facile sol-gel spin-coating fabrication of Ni@WO <sub>3</sub> thin films and highly rectifying p-Si/n-Ni@WO <sub>3</sub> heterojunction for optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 1582-1592	2.1	1
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49	Influence of In Doping on Physical Properties of Co-precipitation Synthesized CdO NPs and Fabrication of p-Si/n-CdIn <sub>2</sub> O <sub>4</sub> Junction Diodes for Enhanced Photodetection Applications. <i>Journal of Electronic Materials</i> , <b>2022</b> , 51, 1759	1.9	0
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45	Improved photocurrent properties of La doped CuO thin films coated by nebulizer spray pyrolysis method for photosensor applications. <i>Optical Materials</i> , <b>2021</b> , 111790	3.3	0
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41	Fabrication of Cu/ZnO system: A dual performer as photocatalyst and luminescent material. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 109022	3.1	o
40	Tailoring the structural, optical and remarkably enhanced photocatalytic activities of nickel oxide nanostructures through cobalt doping. <i>Surfaces and Interfaces</i> , <b>2021</b> , 27, 101515	4.1	o
39	Hydrothermal Preparation of Ni <sub>3</sub> S <sub>4</sub> /CoS <sub>2</sub> Composite Electrocatalytic Materials for High Performance Counter Electrodes of Dye-Sensitized Solar Cells. <i>Journal of Cluster Science</i> ,1	3	o
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31	Third order optical nonlinearities in CdS nanostructured thin films: a comprehensive review. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 24176-24197	2.1	o
30	Fabrication of WO <sub>3</sub> nanotubes/graphene oxide nanosheets hybrid structures: Enhanced solar conversion efficiency in dye sensitized solar cell. <i>Diamond and Related Materials</i> , <b>2021</b> , 119, 108562	3.5	o
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28	Deposition of nanostructured Sn doped Co <sub>3</sub> O <sub>4</sub> films by a facile nebulizer spray pyrolysis method and fabrication of p-Sn doped Co <sub>3</sub> O <sub>4</sub> /n-Si junction diodes for opto-nanoelectronics. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 332, 113067	3.9	o
27	Manufactured organic dye molecules with different spacers for highly efficient reliable DSSCs via computational analysis. <i>Molecular Simulation</i> ,1-10	2	o
26	Z-scheme heterojunction ZnSnO <sub>3</sub> /rGO/MoS <sub>2</sub> nanocomposite for excellent photocatalytic activity towards mixed dye degradation. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 11863-11876	6.7	o
25	Development of a highly sensitive UV sensor using Al, Ga, and In-doped NiO thin films via nebulizer spray pyrolysis method for photodetector applications. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	o

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