

# Mohd Shkir

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

455  
papers

6,983  
citations

41  
h-index

56  
g-index

478  
ext. papers

8,730  
ext. citations

3.2  
avg. IF

7.03  
L-index

| #   | Paper  | IF  | Citations |
|-----|--|-----|-----------|
| 455 | 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         |
| 454 | 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         |
| 453 | Structural, optical, photoluminescence, and EPR behaviour of novel ZnO <sub>1-x</sub> Cd <sub>x</sub> O <sub>2</sub> thick films: An effect of different sintering temperatures. <i>Journal of Luminescence</i> , <b>2022</b> , 245, 118769                                | 3.8 | 0         |
| 452 | 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         |
| 451 | One-step solution auto-combustion process for the rapid synthesis of crystalline phase iron oxide nanoparticles with improved magnetic and photocatalytic properties. <i>Advanced Powder Technology</i> , <b>2022</b> , 33, 103435   | 4.6 | 0         |
| 450 | 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         |
| 449 | 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         |
| 448 | Impact of Temperature on GST/ITO/Soda-Lime Glass Substrate Thin Film Devices. <i>Journal of Electronic Materials</i> , <b>2022</b> , 51, 1838  | 1.9 |           |
| 447 | 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         |
| 446 | 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         |
| 445 | An analysis of the dye-sensitized solar cells fabricated with the dyes extracted from the leaves and flowers of <i>Amaranthus cruentus</i> .. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1  | 5.1 | 0         |
| 444 | 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         |
| 443 | 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         |
| 442 | 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         |
| 441 | Improved opto-nonlinear and emission properties of spray pyrolysis grown Nd:PbS nanostructured thin films. <i>Physica B: Condensed Matter</i> , <b>2022</b> , 627, 413612  | 2.8 | 0         |
| 440 | Performance enhancement of CdS/TiO <sub>2</sub> /FTO photoanode by Ni-doping for quantum dots sensitized solar cells. <i>Materials Letters</i> , <b>2022</b> , 307, 130991   | 3.3 |           |
| 439 | 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         |

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| 438 | g-C3N4/TiO2/CuO S-scheme heterostructure photocatalysts for enhancing organic pollutant degradation. <i>Journal of Physics and Chemistry of Solids</i> , <b>2022</b> , 161, 110391   | 3.9 | 10 |
| 437 | 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  |
| 436 | Biomedical applications <b>2022</b> , 277-323  |     |    |
| 435 | 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  |
| 434 | Morphology-dependent MoO/Ni-F nanostructures with enhanced electrochemical hydrogen peroxide detection. <i>Chemosphere</i> , <b>2022</b> , 287, 131960   | 8.4 | 4  |
| 433 | Novel magnetic materials preparation, characterizations and their applications <b>2022</b> , 67-116  |     |    |
| 432 | Z-scheme heterojunction ZnSnO3/rGO/MoS2 nanocomposite for excellent photocatalytic activity towards mixed dye degradation. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 11863-11876                                       | 6.7 | 0  |
| 431 | Analyzing L-valine effect on structural, mechanical, optical and electrical traits of bis-thiourea cadmium chloride (BTCC) crystal. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2022</b> , 33, 8218-8225 <sup>1</sup>     |     | 1  |
| 430 | Investigation on photocatalytic activity of g-C3N4 decorated Fe2O3 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  |
| 429 | Enhancement in room temperature ammonia sensing performance of the La substituted SnO2 (La:SnO2) thin films developed using spray pyrolysis technique. <i>Physica Scripta</i> , <b>2022</b> , 97, 055808   | 2.6 | 0  |
| 428 | Synthesis of PEDOT:PSS Solution-Processed Electronic Textiles for Enhanced Joule Heating.. <i>ACS Omega</i> , <b>2022</b> , 7, 12716-12723   | 3.9 | 1  |
| 427 | Tailoring the optical properties and the UV detection performance of sol-gel deposited ZnO nanostructured thin films via Cd and Na co-doping. <i>Optical Materials</i> , <b>2022</b> , 126, 112146   | 3.3 | 1  |
| 426 | Different metal-decorated aluminum phosphide nanotubes as hydrazine sensors for biomedical applications.. <i>Journal of Molecular Modeling</i> , <b>2022</b> , 28, 112   | 2   |    |
| 425 | Transitional ordering in reduced graphene oxide nanomaterials. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 142, 106478  | 4.3 | 0  |
| 424 | An investigation on structural, optical and enhanced third order nonlinear optical properties of facilely synthesized Ce:CuS nanosheets. <i>Inorganic Chemistry Communication</i> , <b>2022</b> , 139, 109363                                    | 3.1 | 0  |
| 423 | Spray pyrolysis developed Nd doped Co3O4 nanostructured thin films and their structural, and opto-nonlinear properties for optoelectronics applications. <i>Optics and Laser Technology</i> , <b>2022</b> , 150, 107959                          | 4.2 | 0  |
| 422 | Excellent photo-detection properties of cerium doped ZnO device fabricated by spray pyrolysis technique. <i>Inorganic Chemistry Communication</i> , <b>2022</b> , 140, 109439  | 3.1 |    |
| 421 | Optimizing growth, linear and 3rd order nonlinear optical traits of potassium aluminium sulfate (KAS) crystal by tuning pH for photonic device applications. <i>Inorganic Chemistry Communication</i> , <b>2022</b> , 140, 109484                | 3.1 | 0  |

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| 4 <sup>20</sup> | 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 |
| 4 <sup>19</sup> | Noticeable photo-sensing properties of SnS:Cu thin films fabricated by thermal evaporation technique. <i>Solid State Sciences</i> , <b>2022</b> , 128, 106889   | 3.4 | 0 |
| 4 <sup>18</sup> | Tailoring of structural, opto-nonlinear and electrical properties of CdO thin films via Zn and Ag co-doping for optoelectronics applications <b>2022</b> , 207292   |     | 0 |
| 4 <sup>17</sup> | Noticeably enhanced opto-electrical and photodetection performance of spray pyrolysis grown Mn:CdS nanostructured thin films for visible-light sensor applications. <i>Surfaces and Interfaces</i> , <b>2021</b> , 101586   | 4.1 | 0 |
| 4 <sup>16</sup> | Comparative study of Pr-doped and undoped PbS nanostructures facilely synthesized for optoelectronic applications. <i>Solid State Sciences</i> , <b>2021</b> , 122, 106773  | 3.4 | 0 |
| 4 <sup>15</sup> | 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 |
| 4 <sup>14</sup> | 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 |
| 4 <sup>13</sup> | 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 |
| 4 <sup>12</sup> | Design a novel g-C <sub>3</sub> N <sub>4</sub> based Ce <sub>2</sub> O <sub>3</sub> /CuO ternary photocatalysts for superior photo-degradation performance of organic mixed pollutants: Insights of Z-scheme charge transfer mechanism. <i>Journal of Physics and Chemistry of Solids</i> , <b>2021</b> , 162, 110514 | 3.9 | 0 |
| 4 <sup>11</sup> | 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 |
| 4 <sup>10</sup> | 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 |
| 4 <sup>09</sup> | 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 |
| 4 <sup>08</sup> | Fabrication of Cu/ZnO system: A dual performer as photocatalyst and luminescent material. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 109022   | 3.1 | 0 |
| 4 <sup>07</sup> | 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 | 0 |
| 4 <sup>06</sup> | 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 |
| 4 <sup>05</sup> | Fabrication and characterization of high-performance photodetectors based on Au/CdS/Au and Au/Ni:CdS/Au junctions. <i>Journal of King Saud University - Science</i> , <b>2021</b> , 33, 101638  | 3.6 | 0 |
| 4 <sup>04</sup> | High sensitive samarium-doped ZnS thin films for photo-detector applications. <i>Optical Materials</i> , <b>2021</b> , 122, 111649  | 3.3 | 1 |
| 4 <sup>03</sup> | In doping effect on the structural, morphological, optical and enhanced antimicrobial activity of facilely synthesized novel CuS nanostructures. <i>Surfaces and Interfaces</i> , <b>2021</b> , 27, 101536  | 4.1 | 3 |

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| 402 | 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  |
| 401 | 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  |
| 400 | 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  |
| 399 | Improved photocatalytic degradation of rhodamine B under visible light and magnetic properties using microwave combustion grown Ni doped copper ferrite spinel nanoparticles. <i>Solid State Sciences</i> , <b>2021</b> , 113, 106542   | 3.4 | 11 |
| 398 | 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  |
| 397 | 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  |
| 396 | Facile synthesis and characterization of WO <sub>3</sub> /CuWO <sub>4</sub> nanocomposites for the removal of toxic methylene blue dye. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 952-965   | 2.8 | 0  |
| 395 | 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  |
| 394 | 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  |
| 393 | Novel Sol-Gel Synthesis of Spherical Lead Titanate Submicrometer Powders. <i>Crystals</i> , <b>2021</b> , 11, 484   | 2.3 |    |
| 392 | 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  |
| 391 | 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  |
| 390 | 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  |
| 389 | 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  |
| 388 | Fluorine doped g-C <sub>3</sub> N <sub>4</sub> coupled NiFe <sub>2</sub> O <sub>4</sub> heterojunction: Consumption of H <sub>2</sub> O <sub>2</sub> for production of hydroxyl radicals towards paracetamol degradation. <i>Colloids and Interface Science Communications</i> , <b>2021</b> , 42, 100410     | 5.4 | 9  |
| 387 | 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  |
| 386 | 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  |
| 385 | 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  |

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| 384 | Dielectric and electrical properties of La@NiO SNPs for high-performance optoelectronic applications. <i>Ceramics International</i> , <b>2021</b> , 47, 15611-15621   | 5.1 | 9  |
| 383 | Structural, linear and nonlinear optical properties of Zn@CdO nanostructured thin films: a quantitative comparison with DFT. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 18304-18316  | 2.1 | 0  |
| 382 | A comprehensive experimental investigation of La@CdS nanostructured thin films: Structural, opto-nonlinear and photodetection properties. <i>Surfaces and Interfaces</i> , <b>2021</b> , 24, 101063   | 4.1 | 13 |
| 381 | Enhanced Photocatalytic Performance of One-Pot Flash Combustion Synthesized ZnO Nanoparticles: An Effect of Bi Doping. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 31, 4338   | 3.2 | 0  |
| 380 | 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  |
| 379 | 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  |
| 378 | 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  |
| 377 | Development of morphology tuned SnS hierarchical structures for enhanced photosensitive photodiode fabrication. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 129, 108623  | 3.1 |    |
| 376 | 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  |
| 375 | Physical and electrical properties Evaluation of SnS:Cu thin films. <i>Surface Engineering</i> , <b>2021</b> , 37, 137-147  | 2.6 | 2  |
| 374 | 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  |
| 373 | Study of Optical and Electrical Properties of Graphene Oxide. <i>Materials Today: Proceedings</i> , <b>2021</b> , 36, 730-735   | 1.4 | 2  |
| 372 | Insight on the optoelectronics and enhanced dielectric properties of strontium decorated PbI <sub>2</sub> nanosheets for hot carrier solar cell applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 859, 157762  | 5.7 | 9  |
| 371 | 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  |
| 370 | 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  |
| 369 | Novel Mg@ZnO nanoparticles synthesized by facile one-step combustion route for anti-microbial, cytotoxicity and photocatalysis applications. <i>Journal of Nanostructure in Chemistry</i> , <b>2021</b> , 11, 147-163   | 7.6 | 11 |
| 368 | The remarkably enhanced visible-light-photocatalytic activity of hydrothermally synthesized WO <sub>3</sub> nanorods: An effect of Gd doping. <i>Ceramics International</i> , <b>2021</b> , 47, 4267-4278   | 5.1 | 14 |
| 367 | Novel rare earth yttrium doping effect on physical properties of PbS nanostructures: facile synthesis and characterization. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 4763-4781   | 4.3 | 9  |

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| 366 | 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  |
| 365 | Post-annealing effects on structural and magnetic properties of pulsed laser deposition grown Co/NiAl ferromagnetic shape memory alloys thin films. <i>Solid State Sciences</i> , <b>2021</b> , 111, 106493   | 3.4 |    |
| 364 | Enhancement in photodetection properties of Ag/CdS/Ag devices through novel rare-earth metal Tb doping. <i>Materials Letters</i> , <b>2021</b> , 285, 129174  | 3.3 | 9  |
| 363 | Novel NiFe <sub>2</sub> O <sub>4</sub> deposited S-doped g-C <sub>3</sub> N <sub>4</sub> nanorod: Visible-light-driven heterojunction for photo-Fenton like tetracycline degradation. <i>Diamond and Related Materials</i> , <b>2021</b> , 112, 108148  | 3.5 | 12 |
| 362 | Photosensitive activity of fabricated core-shell composite nanostructured p-CuO@CuS/n-Si diode for photodetection applications. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 317, 112373  | 3.9 | 15 |
| 361 | Screen printed novel ZnO/MWCNTs nanocomposite thick films. <i>Ceramics International</i> , <b>2021</b> , 47, 6084-6093  | 3.9 | 6  |
| 360 | 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 |
| 359 | 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  |
| 358 | Synthesis, characterization, and photoluminescence property of Nd-TUD-1. <i>Luminescence</i> , <b>2021</b> , 36, 192-199  | 3.9 | 2  |
| 357 | 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  |
| 356 | 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  |
| 355 | 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  |
| 354 | 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  |
| 353 | 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  |
| 352 | 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  |
| 351 | 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  |
| 350 | 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  |
| 349 | Impact on Structural and Optical Properties of CZTS Thin Films with Solvents and Ge Incorporation. <i>International Journal of Photoenergy</i> , <b>2021</b> , 2021, 1-9  | 2.1 |    |

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| 348 | 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 |
| 347 | Optimization of Mono-Crystalline Silicon Solar Cell Devices Using PC1D Simulation. <i>Energies</i> , <b>2021</b> , 14, 4986   | 3.1 | 5 |
| 346 | 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 |
| 345 | 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 |
| 344 | 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 |
| 343 | A remarkable effect of substrate temperature on novel Al/Y2O3/n-Si heterojunction diodes performance fabricated by facile jet nebulizer spray pyrolysis for optoelectronic applications. <i>Chinese Journal of Physics</i> , <b>2021</b> , 75, 14-14                  | 3.5 | 0 |
| 342 | 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 |
| 341 | 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 |
| 340 | Investigation on novel Cu2O modified g-C3N4/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 |
| 339 | 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 |
| 338 | Facile synthesis of Cu1-Co Fe2O4 (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 |
| 337 | Influence of carrier gas pressure on the characteristics of nebulizer-sprayed Cu2ZnSnS4 absorber thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 25493  | 2.1 | 1 |
| 336 | 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 | 0 |
| 335 | Facile synthesis, characterization, and photoluminescence property of lanthanum incorporated TUD-1. <i>Optik</i> , <b>2021</b> , 241, 166925  | 2.5 | 1 |
| 334 | Development and characterization of (ZnO)0.90(CNT)0.10 thick film for photovoltaic application. <i>Optik</i> , <b>2021</b> , 248, 167975  | 2.5 |   |
| 333 | Surface-enhanced Raman spectroscopy studies of orderly arranged silica nanospheres-synthesis, characterization and dye detection. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 26596   | 2.1 |   |
| 332 | Design and fabrication of Cu2P2O7@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 |
| 331 | A facile co-precipitation synthesis of novel WO3/NiWO4 nanocomposite with improved photocatalytic activity. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 133, 105970  | 4.3 | 6 |



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| 330 | 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  |
| 329 | 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  |
| 328 | 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  |
| 327 | Basic deposition methods of thin films**. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1241, 130606  | 3.4 | 1  |
| 326 | Enhanced visible light photocatalytic degradation of bisphenol A (BPA) by reduced graphene oxide (RGO)/metal oxide (TiO <sub>2</sub> , ZnO and WO <sub>3</sub> ) based nanocomposites. <i>Diamond and Related Materials</i> , <b>2021</b> , 118, 108514   | 3.5 | 9  |
| 325 | 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>   | 3.1 | 3  |
| 324 | 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  |
| 323 | Improved optoelectronic performance of sol-gel derived ZnO nanostructured thin films. <i>Inorganic Chemistry Communication</i> , <b>2021</b> , 132, 108812  | 3.1 | 1  |
| 322 | 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  |
| 321 | 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  |
| 320 | 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  |
| 319 | 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 | 0  |
| 318 | Investigation on structural, morphological and electrochemical properties of Mn doped WO <sub>3</sub> nanoparticles synthesized by co-precipitation method for supercapacitor applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 882, 160670  | 5.7 | 13 |
| 317 | 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  |
| 316 | Significant and systematic impact of yttrium doping on physical properties of nickel oxide nanoparticles for optoelectronics applications. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 2584-2600  | 5.5 | 0  |
| 315 | Influence of nanostructured SnS thin films for visible light photo detection. <i>Optical Materials</i> , <b>2021</b> , 121, 111489  | 3.3 | 10 |
| 314 | 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  |
| 313 | 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  |

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| 312 | 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 | 0  |
| 311 | 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  |
| 310 | An effect of precursor concentrations on the photodetection capabilities of CdS thin films for high-efficiency visible-light photodetector applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1  | 2.6 | 9  |
| 309 | 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  |
| 308 | 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 |
| 307 | Structural and femtosecond third-order nonlinear optical properties of electron donor acceptor substituted chalcones: An experimental and computational approach. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1219, 128523  | 3.4 | 9  |
| 306 | An in-depth study on physical properties of facilely synthesized Dy@CdS NPs through microwave route for optoelectronic technology. <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 118, 105184   | 4.3 | 22 |
| 305 | 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  |
| 304 | 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  |
| 303 | Emission and opto-dielectric nonlinearity in 2D Cd <sub>1-x</sub> N <sub>x</sub> O nanostructures: an effect of Na doping. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 12116-12126  | 2.1 | 3  |
| 302 | 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 |
| 301 | 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  |
| 300 | 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  |
| 299 | 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  |
| 298 | Fabrication of ON/OFF switching response based on n-Ni-doped MoO <sub>3</sub> /p-Si junction diodes using Ni-MoO <sub>3</sub> thin films as n-type layer prepared by JNS pyrolysis technique. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1                           | 2.6 | 11 |
| 297 | Tuning the optical band gap and magnetization of oleic acid coated CoFe <sub>2</sub> O <sub>4</sub> NPs synthesized by facile hydrothermal route. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2020</b> , 259, 114603                                   | 3.1 | 9  |
| 296 | Comprehensive Study on Nebulizer-Spray-Pyrolyzed Eu-Doped PbS Thin Films for Optoelectronic Applications. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 5439-5448  | 1.9 | 0  |
| 295 | Significance of Ni doping on structure-morphology-photoluminescence, optical and photocatalytic activity of CBD grown ZnO nanowires for opto-photocatalyst applications. <i>Inorganic Chemistry Communication</i> , <b>2020</b> , 119, 108082   | 3.1 | 16 |

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| 294 | Physicochemical properties of a nanocomposite (graphene oxide-hydroxyapatite-cellulose) immobilized by Ag nanoparticles for biomedical applications. <i>Results in Physics</i> , <b>2020</b> , 16, 102990  | 3.7 | 21 |
| 293 | Exploring remarkable impact of thiourea in enhancing the performance of NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> single crystal for photonic device applications. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 246, 122809                             | 4.4 | 11 |
| 292 | Fabrication and characterization of Sn:CdS films for optical-nonlinear-limiting applications. <i>Optics and Laser Technology</i> , <b>2020</b> , 126, 106122   | 4.2 | 12 |
| 291 | A systematic investigation on physical properties of spray pyrolysis fabricated CdS thin films for opto-nonlinear applications: An effect of Na doping. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 410-421   | 2.5 | 10 |
| 290 | 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 |
| 289 | Investigation of bandgap alteration in graphene oxide with different reduction routes. <i>Applied Surface Science</i> , <b>2020</b> , 513, 145396  | 6.7 | 36 |
| 288 | One-step straightforward synthesis of Tb-doped NiO nanocomposites using flash combustion method: Structural, optical, luminescent, and electrical switching properties. <i>Ceramics International</i> , <b>2020</b> , 46, 10678-10690                                  | 5.1 | 18 |
| 287 | An effect of Fe on physical properties of nanostructured NiO thin films for nonlinear optoelectronic applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1   | 2.6 | 11 |
| 286 | 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 |
| 285 | Opto-dielectric-nonlinear properties of NaZnCdS alloys nanostructure thin films: Role of Zn doping. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 588, 412194   | 2.8 | 5  |
| 284 | Effect of Bi contents on key physical properties of NiO NPs synthesized by flash combustion process and their cytotoxicity studies for biomedical applications. <i>Ceramics International</i> , <b>2020</b> , 46, 19691-19700  | 5.1 | 12 |
| 283 | 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  |
| 282 | 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 |
| 281 | 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  |
| 280 | 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  |
| 279 | 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  |
| 278 | A rapid microwave synthesis of Ag <sub>2</sub> S nanoparticles and their photocatalytic performance under UV and visible light illumination for water treatment applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 121, 114060 | 3   | 20 |
| 277 | Microwave synthesis of Zn:Mn:PbI <sub>2</sub> micro-size nanosheets and their characterizations. <i>Materials Science-Poland</i> , <b>2020</b> , 38, 367-373   | 0.6 |    |

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| 276 | SILAR-coated Mg-doped ZnO thin films for ammonia vapor sensing applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 10186-10195   | 2.1 | 16 |
| 275 | 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 |
| 274 | A SILAR fabrication of nanostructured ZnO thin films and their characterizations for gas sensing applications: An effect of Ag concentration. <i>Superlattices and Microstructures</i> , <b>2020</b> , 143, 106547   | 2.8 | 12 |
| 273 | 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 |
| 272 | 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 |
| 271 | 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 |
| 270 | 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  |
| 269 | Response to comment on "An effect of novel Nd <sup>3+</sup> doping on physical properties of nebulizer spray pyrolysis fabricated ZnS thin films for optoelectronic technology" <i>Physica B: Condensed Matter</i> , <b>2020</b> , 577, 411867                         | 2.8 | 0  |
| 268 | A comprehensive study on molecular geometry, optical, HOMO-LUMO, and nonlinear properties of 1,3-diphenyl-2-propen-1-ones chalcone and its derivatives for optoelectronic applications: A computational approach. <i>Optik</i> , <b>2020</b> , 204, 164172             | 2.5 | 15 |
| 267 | Facile Synthesis, Optical Dielectric Electrical Studies on Carbon-Coated ZnO: An Effect of Gelatin. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 2144-2150   | 1.9 |    |
| 266 | A structural, elastic, mechanical, spectroscopic, thermodynamic, and magnetic properties of polymer coated CoFe <sub>2</sub> O <sub>4</sub> nanostructures for various applications. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1205, 127681                | 3.4 | 9  |
| 265 | Fabrication of a novel and low-cost disposable visual UVC sensors with short response time. <i>Materials Letters</i> , <b>2020</b> , 263, 127219   | 3.3 |    |
| 264 | 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 |
| 263 | Customizing optical and dielectric traits of ammonium dihydrogen phosphate (ADP) crystal exploiting Zn <sup>2+</sup> ion for photonic device applications. <i>Chinese Journal of Physics</i> , <b>2020</b> , 63, 70-77   | 3.5 | 11 |
| 262 | 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 |
| 261 | Facilely fabricated Dy:PbI <sub>2</sub> /glass thin films and their structural, linear and nonlinear optical studies for opto-nonlinear applications. <i>Vacuum</i> , <b>2020</b> , 173, 109122  | 3.7 | 20 |
| 260 | 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  |
| 259 | An impact of Cr-doping on physical properties of PbI <sub>2</sub> thin films facily deposited by spin coating technique. <i>Superlattices and Microstructures</i> , <b>2020</b> , 138, 106370  | 2.8 | 15 |

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| 258 | Functionalization of graphene quantum dots (GQDs) with chitosan biopolymer for biophysical applications. <i>Optical and Quantum Electronics</i> , <b>2020</b> , 52, 1   | 2.4 | 13 |
| 257 | 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  |
| 256 | 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  |
| 255 | An impact of La doping content on physical properties of NiO films facilely casted through spin-coater for optoelectronics. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 582, 411955  | 2.8 | 11 |
| 254 | 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  |
| 253 | Investigation on microstructural and opto-electrical properties of Zr-doped SnO <sub>2</sub> thin films for Al/Zr:SnO <sub>2</sub> /p-Si Schottky barrier diode application. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 599, 412452     | 2.8 | 14 |
| 252 | 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  |
| 251 | 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  |
| 250 | 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  |
| 249 | 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  |
| 248 | 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  |
| 247 | A facile microwave synthesis of Cr-doped CdS QDs and investigation of their physical properties for optoelectronic applications. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 3973-3985   | 3.3 | 14 |
| 246 | 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  |
| 245 | Fabrication of high-performance SiO <sub>2</sub> @p-CuO/n-Si core-shell structure based photosensitive diode for photodetection application. <i>Surfaces and Interfaces</i> , <b>2020</b> , 20, 100622  | 4.1 | 10 |
| 244 | 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  |
| 243 | Structural, morphological, vibrational, optical, and nonlinear characteristics of spray pyrolyzed CdS thin films: Effect of Gd doping content. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 255, 123615                               | 4.4 | 11 |
| 242 | 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  |
| 241 | 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  |

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| 240 | An impact of La doping content on key physical properties of PbS spherical nanoparticles facilely synthesized via low temperature chemical route. <i>European Physical Journal Plus</i> , <b>2020</b> , 135, 1   | 3.1 | 10 |
| 239 | 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  |
| 238 | 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  |
| 237 | 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  |
| 236 | Carbon Dot Loaded Integrative CoFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> P-N Heterojunction: Direct Solar Light-Driven Photocatalytic H <sub>2</sub> Evolution and Organic Pollutant Degradation. <i>ChemistrySelect</i> , <b>2020</b> , 5, 10607-10617 | 1.8 | 10 |
| 235 | Remarkable effect of l-Ascorbic acid on crystal morphology, structural, crystalline perfection, optical, photoluminescence and dielectric properties of Zinc(tris) thiourea sulphate (ZTS) single crystals. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 1490-1498  | 5.9 | 9  |
| 234 | 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  |
| 233 | Enhancement the photocatalytic performance of semiconductors through composite formation with Eu-TUD-1. <i>Optik</i> , <b>2020</b> , 202, 163522   | 2.5 | 5  |
| 232 | Novel report on luminescence, linear and laser induced optical traits of potassium aluminium sulphate crystal for photonic device applications. <i>Optik</i> , <b>2020</b> , 201, 163509   | 2.5 | 10 |
| 231 | 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 |
| 230 | 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  |
| 229 | 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 |
| 228 | An investigation on optical-nonlinear and optical limiting properties of CdS: an effect of Te doping concentrations for optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 17469-17480                             | 2.1 | 21 |
| 227 | An effect of Gd <sup>3+</sup> doping on core properties of ZnS thin films prepared by nebulizer spray pyrolysis (NSP) method. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 574, 411674   | 2.8 | 15 |
| 226 | Linear, second and third order nonlinear optical properties of novel noncentrosymmetric donor-acceptor configure chalcone derivatives: A dual approach study. <i>Optik</i> , <b>2019</b> , 199, 163354   | 2.5 | 20 |
| 225 | 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  |
| 224 | 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  |
| 223 | 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  |

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| 222 | Effect of La doping on key characteristics of SnO <sub>2</sub> thin films facilely fabricated by spin coating technique. <i>Optical Materials</i> , <b>2019</b> , 94, 277-285  | 3.3 | 13 |
| 221 | Thickness-dependent structural, spectral, linear, nonlinear and z-scan optical studies of V <sub>2</sub> O <sub>5</sub> thin films prepared by a low-cost sol-gel spin coating technique. <i>Materials Research Express</i> , <b>2019</b> , 6, 096403      | 1.7 | 12 |
| 220 | Effect of europium loading on the photoluminescence property of europium incorporated 3D-Mesoporous silica. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 515, 68-74  | 3.9 | 12 |
| 219 | 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  |
| 218 | A facile one-step flash combustion synthesis and characterization on C doped NiO nanostructures. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 100, 106-112   | 4.3 | 15 |
| 217 | Structural, morphological and opto-nonlinear studies of Cu:NiO: glass thin films facilely designed by spin coater for electro-optics. <i>Materials Research Express</i> , <b>2019</b> , 6, 086439  | 1.7 | 18 |
| 216 | 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  |
| 215 | High performance visible light photodetector based on TlInS <sub>2</sub> single crystal for optoelectronic devices. <i>Physica Scripta</i> , <b>2019</b> , 94, 105816  | 2.6 | 17 |
| 214 | Novel design and microelectronic analysis of highly stable Au/Indigo/n-Si photodiode for optoelectronic applications. <i>Solid State Sciences</i> , <b>2019</b> , 93, 7-12   | 3.4 | 17 |
| 213 | A facilely one pot low temperature synthesis of novel Pt doped PbS nanopowders and their characterizations for optoelectronic applications. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1192, 68-75  | 3.4 | 16 |
| 212 | Influence of Al doping concentration on the opto-electronic chattels of SnS thin films readied by NSP. <i>Optical and Quantum Electronics</i> , <b>2019</b> , 51, 1  | 2.4 | 12 |
| 211 | A significant effect of Ce-doping on key characteristics of NiO thin films for optoelectronics facilely fabricated by spin coater. <i>Superlattices and Microstructures</i> , <b>2019</b> , 129, 230-239   | 2.8 | 13 |
| 210 | An effect of La doping on physical properties of CdO films facilely casted by spin coater for optoelectronic applications. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 562, 135-140   | 2.8 | 5  |
| 209 | Growth of NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> crystal in urea environment to optimize linear-nonlinear optical traits for photonic device applications. <i>Optik</i> , <b>2019</b> , 185, 1247-1252   | 2.5 | 16 |
| 208 | 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 |
| 207 | Effect of rare earth Pr doping on core characteristics of electrodeposited nanocrystalline Cu <sub>2</sub> O films: a film for optoelectronic technology. <i>Journal of Sol-Gel Science and Technology</i> , <b>2019</b> , 90, 578-588                     | 2.3 | 0  |
| 206 | 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 |
| 205 | In-depth study on structural, optical, photoluminescence and electrical properties of electrodeposited Cu <sub>2</sub> O thin films for optoelectronics: An effect of solution pH. <i>Microelectronic Engineering</i> , <b>2019</b> , 210, 27-34           | 2.5 | 14 |

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| 204 | Impact of increasing concentration of l-alanine environment on structural, UV-vis, SHG efficiency, luminescence and dielectric traits of zinc thiourea chloride (ZTC) crystal. <i>Optik</i> , <b>2019</b> , 185, 317-324  | 2.5 | 19 |
| 203 | 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 |
| 202 | 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 |
| 201 | Fabrication and characterization of lead sulfide (PbS) thin film based heterostructure (FTO/CdS/PbS/Ag) solar cell by nebulizer spray method. <i>Materials Research Express</i> , <b>2019</b> , 6, 056416   | 1.7 | 10 |
| 200 | Crystal structure, spectroscopic analyses, linear and third-order nonlinear optical properties of anthracene-based chalcone derivative for visible laser protection. <i>Applied Physics B: Lasers and Optics</i> , <b>2019</b> , 125, 1                               | 1.9 | 21 |
| 199 | Optimizing optical traits of ammonium zinc sulphate hydrate crystal exploiting Nd <sup>3+</sup> for photonic device applications. <i>Optik</i> , <b>2019</b> , 197, 163219  | 2.5 | 10 |
| 198 | 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 |
| 197 | A facile low-temperature synthesis of nanosheets assembled PbS microflowers and their structural, morphological, optical, photoluminescence, dielectric and electrical studies. <i>Materials Research Express</i> , <b>2019</b> , 6, 105013                           | 1.7 | 10 |
| 196 | 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  |
| 195 | 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  |
| 194 | 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 |
| 193 | Effect of novel Nd <sup>3+</sup> doping on physical properties of nebulizer spray pyrolysis fabricated ZnS thin films for optoelectronic technology. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 572, 109-116  | 2.8 | 13 |
| 192 | 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 |
| 191 | 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 |
| 190 | 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  |
| 189 | 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  |
| 188 | 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  |
| 187 | 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. <i>Journal of Nanoelectronics and Optoelectronics</i> , <b>2019</b> , 14, 255-260           | 1.3 | 23 |



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| 186 | A structural, morphological, linear, and nonlinear optical spectroscopic studies of nanostructured Al-doped ZnO thin films: An effect of Al concentrations. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 1309-1317               | 3.5 | 10 |
| 185 | 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 |
| 184 | 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  |
| 183 | A facile microwave synthesis of PbS:Sr nanoparticles and their key structural, morphological, optical, photoluminescence, dielectric and electrical studies for optoelectronics. <i>Materials Research Express</i> , <b>2019</b> , 6, 1250e6 | 1.7 | 15 |
| 182 | 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 |
| 181 | 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 |
| 180 | Improving the conductivity of cuprous oxide thin film by doping Calcium via feasible nebulizer spray technique for solar cell (FTO/ZnO/Ca-Cu <sub>2</sub> O). <i>Materials Research Express</i> , <b>2019</b> , 6, 046405                    | 1.7 | 9  |
| 179 | Facile synthesis of La-doped CdS nanoparticles by microwave assisted co-precipitation technique for optoelectronic application. <i>Materials Research Express</i> , <b>2019</b> , 6, 025022  | 1.7 | 17 |
| 178 | Optical analysis of nanostructured rose bengal thin films using Kramers-Kronig approach: New trend in laser power attenuation. <i>Optics and Laser Technology</i> , <b>2019</b> , 112, 207-214   | 4.2 | 22 |
| 177 | Effect of Nd doping on structural and opto-electronic properties of CdO thin films fabricated by a perfume atomizer spray method. <i>Bulletin of Materials Science</i> , <b>2019</b> , 42, 1   | 1.7 | 18 |
| 176 | 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 |
| 175 | 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  |
| 174 | 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  |
| 173 | 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 |
| 172 | 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  |
| 171 | Surface area, optical and electrical studies on PbS nanosheets for visible light photo-detector application. <i>Physica Scripta</i> , <b>2019</b> , 94, 025801   | 2.6 | 15 |
| 170 | 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 |
| 169 | Kramers-Kronig calculations for linear and nonlinear optics of nanostructured methyl violet (CI-42535): New trend in laser power attenuation using dyes. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 552, 62-70                       | 2.8 | 19 |

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| 168 | 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 |
| 167 | Growth and optical studies of tris (thiourea) potassium barium sulphate crystal: a novel semiorganic NLO bimetallic crystal. <i>Materials Research Innovations</i> , <b>2019</b> , 23, 123-128   | 1.9 | 15 |
| 166 | Shedding light on molecular structure, spectroscopic, nonlinear optical and dielectric properties of bis(thiourea) silver(I) nitrate single crystal: A dual approach. <i>Arabian Journal of Chemistry</i> , <b>2019</b> , 12, 4612-4626  | 5.9 | 12 |
| 165 | Large Size Crystal Growth, Photoluminescence, Crystal Excellence, and Hardness Properties of In-Doped Cadmium Zinc Telluride. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 2046-2054   | 3.5 | 20 |
| 164 | Effect of Pr 3+ doping on key properties of CdO thin films deposited by spray pyrolysis using perfume atomizer. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 118, 211-220   | 3.9 | 11 |
| 163 | Investigation of molar concentration effect on structural, optical, electrical, and photovoltaic properties of spray-coated Cu <sub>2</sub> O thin films. <i>Surface and Interface Analysis</i> , <b>2018</b> , 50, 346-353  | 1.5 | 17 |
| 162 | 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  |
| 161 | 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 |
| 160 | Rare earth Eu <sup>3+</sup> co-doped AZO thin films prepared by nebulizer spray pyrolysis technique for optoelectronics. <i>Journal of Sol-Gel Science and Technology</i> , <b>2018</b> , 86, 293-304  | 2.3 | 20 |
| 159 | Fabrication of Eu doped CdO [Al/Eu-nCdO/p-Si/Al] photodiodes by perfume atomizer based spray technique for opto-electronic applications. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1160, 311-318   | 3.4 | 22 |
| 158 | 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 |
| 157 | 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 |
| 156 | Optimizing Structural, Microhardness, Surface Growth Mechanism, Luminescence and Thermal Traits of KH <sub>2</sub> PO <sub>4</sub> Crystal Exploiting Multidirectional H-Bonding Quality of Dopant Tartaric Acid. <i>Crystal Research and Technology</i> , <b>2018</b> , 53, 1700165 | 1.3 | 15 |
| 155 | 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  |
| 154 | Eye-catching modification in external morphology, photoluminescence and SHG efficiency of NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> crystal: A consequence of influential presence of tartaric acid. <i>Optik</i> , <b>2018</b> , 158, 634-638                                  | 2.5 | 14 |
| 153 | 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 |
| 152 | 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 |
| 151 | Luminescence, laser induced nonlinear optical and surface microscopic studies of potassium thiourea chloride crystal. <i>Optik</i> , <b>2018</b> , 165, 259-265  | 2.5 | 19 |

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| 150 | 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 |
| 149 | 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 |
| 148 | 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 |
| 147 | Influence of Nd <sup>3+</sup> on zinc tris-thiourea sulphate single crystal: a comparative crystal growth, structural, linear/nonlinear optical and dielectric study to explore NLO device applications. <i>Materials Research Innovations</i> , <b>2018</b> , 22, 99-106 | 1.9 | 38 |
| 146 | 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 |
| 145 | Effect of Gd <sup>3+</sup> doping on key structural, morphological, optical, and electrical properties of CdO thin films fabricated by spray pyrolysis using perfume atomizer. <i>Journal of Sol-Gel Science and Technology</i> , <b>2018</b> , 85, 31-40                 | 2.3 | 20 |
| 144 | Development of SnS (FTO/CdS/SnS) thin films by nebulizer spray pyrolysis (NSP) for solar cell applications. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1152, 137-144   | 3.4 | 22 |
| 143 | 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 |
| 142 | Influence of Cu <sup>2+</sup> ion on structural, luminescence and dielectric properties of zinc thiourea chloride metal-organic complex crystal. <i>Optik</i> , <b>2018</b> , 154, 275-279  | 2.5 | 19 |
| 141 | Nonlinear optical and microscopic analysis of Cu <sup>2+</sup> doped zinc thiourea chloride (ZTC) monocrystal. <i>Optics and Laser Technology</i> , <b>2018</b> , 99, 197-202   | 4.2 | 22 |
| 140 | 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 |
| 139 | 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 |
| 138 | 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  |
| 137 | Effects of methyl violet dye on the growth and properties of zinc (tris) thiourea sulfate single crystals. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 123, 336-343   | 3.9 | 14 |
| 136 | Quantum chemical investigation on molecular structure, vibrational, photophysical and nonlinear optical properties of l-threoninium picrate: an admirable contender for nonlinear applications. <i>Journal of Computational Electronics</i> , <b>2018</b> , 17, 1421-1433 | 1.8 | 13 |
| 135 | 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 |
| 134 | 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  |
| 133 | Facile synthesis and characterization of undoped, Mn doped and Nd <sup>3+</sup> -doped CuO nanoparticles for optoelectronic and magnetic applications. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1171, 388-395  | 3.4 | 20 |

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| 132 | Structural, vibrational, optical, photoluminescence, thermal, dielectric, and mechanical studies on zinc (tris) thiourea sulfate single crystal: A noticeable effect of organic dye. <i>Chinese Physics B</i> , <b>2018</b> , 27, 054216  | 1.2 | 18 |
| 131 | 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. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 1035-1042                                      | 3.8 | 22 |
| 130 | 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  |
| 129 | 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 |
| 128 | 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  |
| 127 | Comparative analysis on microhardness and third order nonlinear optical traits of pure and Nd <sup>3+</sup> doped zinc tris-thiourea sulphate (ZTS) crystal. <i>Materials Science-Poland</i> , <b>2018</b> , 36, 403-408  | 0.6 | 18 |
| 126 | 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  |
| 125 | Effect of Precursors on Key Opto-electrical Properties of Successive Ion Layer Adsorption and Reaction-Prepared Al:ZnO Thin Films. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 1335-1343   | 1.9 | 19 |
| 124 | Uncovering the influence of Ni <sup>2+</sup> on optical and dielectric properties of NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> (ADP) crystal. <i>Optik</i> , <b>2018</b> , 157, 592-596  | 2.5 | 19 |
| 123 | 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 |
| 122 | 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-(π)-A type chalcone derivative. <i>Journal of Computational Electronics</i> , <b>2018</b> , 17, 9-20 | 1.8 | 25 |
| 121 | Linear-nonlinear optical, dielectric and surface microscopic investigation of KH <sub>2</sub> PO <sub>4</sub> crystal to uncover the decisive impact of dopant glycine. <i>Materials Science-Poland</i> , <b>2018</b> , 36, 662-667   | 0.6 | 15 |
| 120 | An investigation on SnS layers for solar cells fabrication with CdS, SnS <sub>2</sub> and ZnO window layers prepared by nebulizer spray method. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1   | 2.6 | 13 |
| 119 | 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 |
| 118 | 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 |
| 117 | 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 |
| 116 | A comprehensive investigation on core optoelectronic and laser properties of ZTS single crystals: an effect of Mg <sup>2+</sup> doping. <i>Applied Physics B: Lasers and Optics</i> , <b>2018</b> , 124, 1  | 1.9 | 20 |
| 115 | Gamma glycine crystal for efficient second harmonic generation of 1064 nm Nd:YAG laser light. <i>Materials Letters</i> , <b>2018</b> , 233, 238-241   | 3.3 | 19 |

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| 114 | Linear, third order nonlinear and optical limiting studies on MZO/FTO thin film system fabricated by spin coating technique for electro-optic applications. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 3880-3889                                    | 2.5 | 19 |
| 113 | Facile one pot synthesis of novel Hg <sup>2+</sup> doped PbI <sub>2</sub> nanostructures for optoelectronic and radiation shielding applications. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 83, 231-238                                | 4.3 | 15 |
| 112 | Influence of l-lysine on optical and dielectric traits of cadmium thiourea acetate complex crystal. <i>Optik</i> , <b>2018</b> , 170, 43-47   | 2.5 | 21 |
| 111 | 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 |
| 110 | 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 |
| 109 | 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  |
| 108 | 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 |
| 107 | Molecular structure, vibrational, optical and second order polarizabilities of (E)-1-(2,4-Dihydroxy-phenyl)-3-(2,3-dimethoxyphenyl)-propenone chalcone derivative: a quantum computational approach. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1 | 2.4 | 11 |
| 106 | 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  |
| 105 | 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 |
| 104 | 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  |
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| 102 | Molecular structure, vibrational, factor group, optical and second order polarizability analysis of the l-prolinium trichloroacetate: A computational approach. <i>Optik</i> , <b>2017</b> , 136, 327-335   | 2.5 | 9  |
| 101 | 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 |
| 100 | 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. <i>Optik</i> , <b>2017</b> , 137, 31-36                | 2.5 | 22 |
| 99  | Monocrystal growth and characterization study of α and β polymorph of glycine to explore superior performance of β glycine crystal. <i>Materials Research Innovations</i> , <b>2017</b> , 1-6   | 1.9 | 9  |
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| 97  | Facile one pot synthesis of PbS nanosheets and their characterization. <i>Solid State Sciences</i> , <b>2017</b> , 70, 81-85  | 3.4 | 40 |

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| 96 | 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  |
| 95 | 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  |
| 94 | 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  |
| 93 | 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  |
| 92 | 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  |
| 91 | 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  |
| 90 | Bulk growth of organic non-linear optical (NLO) L-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP) single crystals by Sankaranarayanan Ramasamy (SR) method. <i>Materials Research Innovations</i> , <b>2017</b> , 21, 426-433   | 1.9 | 18  |
| 89 | 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  |
| 88 | 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  |
| 87 | Experimental and computational studies on second-and third-order nonlinear optical properties of a novel D-EA 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  |
| 86 | 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  |
| 85 | 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  |
| 84 | A highly sensitive Off-On optical and fluorescent chemodosimeter for detecting iron (III) and its application in practical samples: An investigation of Fe <sup>3+</sup> induced oxidation by mass spectrometry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2017</b> , 347, 209-217               | 4.7 | 12  |
| 83 | 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  |
| 82 | 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 |
| 81 | Effect of phenol red dye on monocrystal growth, crystalline perfection, and optical and dielectric properties of zinc (tris) thiourea sulfate. <i>Journal of Applied Crystallography</i> , <b>2017</b> , 50, 1716-1724   | 3.8 | 14  |
| 80 | Novel report on glycine crystal yielding high second harmonic generation efficiency. <i>Optical Materials</i> , <b>2017</b> , 72, 590-595  | 3.3 | 49  |
| 79 | Key functions analysis of a novel nonlinear optical D-EA 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  |

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| 78 | Investigation on physical properties of L-alanine: An effect of Methylene blue dye. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1131, 43-50   | 3.4 | 16  |
| 77 | 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  |
| 76 | 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 |
| 75 | 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  |
| 74 | An experimental and theoretical study on a novel donor-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  |
| 73 | 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  |
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| 69 | The electro-optical and charge transport study of imidazolidin derivative: Quantum chemical investigations. <i>Journal of Saudi Chemical Society</i> , <b>2016</b> , 20, 680-685  | 4.3 | 15  |
| 68 | 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  |
| 67 | 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   |
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| 64 | 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   |
| 63 | 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  |
| 62 | 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  |
| 61 | Dielectric, etching and Z-scan studies of glycine doped potassium thiourea chloride crystal. <i>Materials Science-Poland</i> , <b>2016</b> , 34, 800-805  | 0.6 | 16  |

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| 59 | Effect of Co 2+ 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  |
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| 57 | 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 |
| 56 | Facile hydrothermal-assisted synthesis of Gd 3+ doped Pbl 2 nanostructures and their characterization. <i>Materials Letters</i> , <b>2016</b> , 176, 135-138  | 3.3 | 63 |
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| 52 | Enhancement of nonlinear optical susceptibility of CuPc films by ITO layer. <i>Optical Materials</i> , <b>2016</b> , 62, 184-191  | 3.3 | 13 |
| 51 | A systematic study on electrical and physical properties of calcium bis-thiourea chloride crystal. <i>Optik</i> , <b>2016</b> , 127, 9734-9737  | 2.5 | 20 |
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| 36 | Effect of organic ligands (L-Proline and L-Methionine) on growth, structural, vibrational, crystalline perfection, SHG efficiency, microscopic and optical properties of KDP single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 124, 571-8 | 4.4 | 15 |
| 35 | Structural, spectroscopic, optical, dielectric and mechanical study of pure and l-Proline doped ammonium dihydrogen phosphate single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 123, 376-84   | 4.4 | 18 |
| 34 | Synthesis, crystal growth and mechanical properties of Bismuth Silicon Oxide (BSO) single crystal. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 588, 242-247  | 5.7 | 14 |
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| 25 | 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 |

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| 22 | Characterization of ZnTe single crystal grown by Vertical Bridgman Technique using two zone tubular furnace: An important material for optoelectronic devices. <i>Optik</i> , <b>2013</b> , 124, 1995-1999   | 2.5 | 13 |
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| 19 | 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 |
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| 17 | 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  |
| 16 | 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  |
| 15 | 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  |
| 14 | A Facile Microwave Assisted Synthesis of La@PbS Nanoparticles and Their Characterizations for Optoelectronics. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1   | 3.2 |    |
| 13 | Computational investigations on efficient metal-free organic D-π-A dyes with different spacers for powerful DSSCs applications. <i>Molecular Simulation</i> , 1-10   | 2   | 2  |
| 12 | Copper Oxide Nanorod/Reduced Graphene Oxide Composites for NH <sub>3</sub> Sensing. <i>ACS Applied Nano Materials</i> ,  | 5.6 | 2  |
| 11 | Silk-Templated Nanomaterial Interfaces for Wearables and Bioelectronics: Advances and Prospects 68-86  |     | 5  |
| 10 | Influence of zirconium ions on the key characteristics of V <sub>2</sub> O <sub>5</sub> nanorods and current-voltage features of the n-ZrxV <sub>2</sub> O <sub>5</sub> /p-Si photodetector. <i>Journal of Materials Science: Materials in Electronics</i> , 1 | 2.1 | 0  |
| 9  | 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   | 0  |
| 8  | 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  |
| 7  | Facile construction of novel ZnO and TiO <sub>2</sub> combined g-C <sub>3</sub> N <sub>4</sub> nanocomposite for superior visible-light photocatalytic organic pollutant degradation. <i>Materials Technology</i> , 1-14                                       | 2.1 | 0  |

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| 6 | 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 |
| 5 | D $\pi$ A manufactured organic dye molecules with different spacers for highly efficient reliable DSSCs via computational analysis. <i>Molecular Simulation</i> ,1-10   | 2   | 0 |
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| 2 | 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 | 0 |
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