

# Mohamed Bououdina

## List of Publications by Year in descending order

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Version: 2024-02-01

358  
papers

10,777  
citations

34105

52  
h-index

58581

82  
g-index

363  
all docs

363  
docs citations

363  
times ranked

10411  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Efficient removal of organic dyes by Cr-doped ZnO nanoparticles. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4177-4190.   | 4.6 | 6         |
| 2  | Effects of hydrogen/halogen "edge termination on structural, electronic, and optical properties of planar silicene nanoribbons SiNRs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 136, 115046.                               | 2.7 | 5         |
| 3  | Mesoporous Sn@TiO <sub>2</sub> nanostructures as excellent adsorbent for Ba ions in aqueous solution. <i>Ceramics International</i> , 2022, 48, 5805-5813.  | 4.8 | 18        |
| 4  | Dependence of magnetic properties with structural/microstructural parameters of ball-milled Fe <sub>15</sub> Co <sub>2</sub> P <sub>3</sub> powder mixture. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 2089-2098. | 3.0 | 2         |
| 5  | Structure, morphology, and photoresponse characteristics dependence on substrate nature of grown In-SnS films using chemical bath deposition. <i>Optical Materials</i> , 2022, 123, 111910.   | 3.6 | 9         |
| 6  | The Synergistic Effect of Algerian Na-Bentonite/Potato Starch/Grass Powder on the Enhancement of Aged Water-based Drilling Fluids. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 11721-11732.  | 3.0 | 4         |
| 7  | Tuning the optical properties and photocatalytic activity of Ti <sub>0.96</sub> Nd <sub>0.02</sub> O <sub>2</sub> by Cd/Fe co-doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 5707-5719.                            | 2.2 | 2         |
| 8  | Chemical Route Manufactured ZnO Nanoparticles and Their Biological Accumulation. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 1966-1974.   | 3.7 | 4         |
| 9  | In situ grown ZnO nanoparticles using Begonia leaves "dielectric, magnetic, filter utility and tribological properties for mechano-electronic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.                | 2.3 | 9         |
| 10 | Reduced Graphene Oxide-Tailored CuFe <sub>2</sub> O <sub>4</sub> Nanoparticles as an Electrode Material for High-Performance Supercapacitors. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-15.   | 2.7 | 6         |
| 11 | Tribocorrosion Dependence on Porosity of TiNi Alloys in Phosphate-Buffered Saline Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2022, 8, .   | 2.6 | 0         |
| 12 | Multifunctional Core-Shell NiFe <sub>2</sub> O <sub>4</sub> Shield with TiO <sub>2</sub> /rGO Nanostructures for Biomedical and Environmental Applications. <i>Bioinorganic Chemistry and Applications</i> , 2022, 2022, 1-21.                        | 4.1 | 6         |
| 13 | Influence of graphene oxide on the toxicity of polystyrene nanoplastics to the marine microalgae <i>Picochlorum</i> sp.. <i>Environmental Science and Pollution Research</i> , 2022, 29, 75870-75882.   | 5.3 | 2         |
| 14 | Assessment of an accidental hydrogen leak from a vehicle tank in a confined space. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 28710-28720.   | 7.1 | 18        |
| 15 | Structural Study of Nano-Clay and Its Effectiveness in Radiation Protection against X-rays. <i>Nanomaterials</i> , 2022, 12, 2332.  | 4.1 | 1         |
| 16 | Hydrogen gas sensor based on nanofibers TiO <sub>2</sub> -PVP thin film at room temperature prepared by electrospinning. <i>Microsystem Technologies</i> , 2021, 27, 293-299.   | 2.0 | 16        |
| 17 | Synergic effect of Cu <sub>2</sub> O/MoS <sub>2</sub> /rGO for the sonophotocatalytic degradation of tetracycline and ciprofloxacin antibiotics. <i>Ceramics International</i> , 2021, 47, 4226-4237.   | 4.8 | 58        |
| 18 | Physical and photocatalytic properties of Nd codoped (Ag, Cu)TiO <sub>2</sub> thin films. <i>Surface Engineering</i> , 2021, 37, 784-794.   | 2.2 | 5         |

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|----|---|-----|-----------|
| 19 | Novel SnO <sub>2</sub> -coated $\hat{I}^2$ -Ga <sub>2</sub> O <sub>3</sub> nanostructures for room temperature hydrogen gas sensor. International Journal of Hydrogen Energy, 2021, 46, 7000-7010.                                | 7.1 | 28        |
| 20 | Dielectric and magnetic properties of Allium cepa and Raphanus sativus extracts biogenic ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2021, 32, 590-603.  | 2.2 | 20        |
| 21 | Dependence of Mg, Be and Al substitution on the hydrogen storage characteristics of $\langle \text{scp} \rangle$ ZrNiH <sub>3</sub> $\langle \text{scp} \rangle$ . International Journal of Energy Research, 2021, 45, 2292-2302. | 4.5 | 11        |
| 22 | Fabrication of (Y <sub>2</sub> O <sub>3</sub> ) $\hat{n}$ â€ZnO nanocomposites by high-energy milling as potential photocatalysts. Journal of Materials Science: Materials in Electronics, 2021, 32, 3415-3430.                   | 2.2 | 13        |
| 23 | Structural and optical properties of visible active photocatalytic Al doped ZnO nanostructured thin films prepared by dip coating. Optical Materials, 2021, 113, 110868.  | 3.6 | 42        |
| 24 | Solvothermal synthesis of Cu-doped Co <sub>3</sub> O <sub>4</sub> nanosheets at low reaction temperature for potential supercapacitor applications. Applied Physics A: Materials Science and Processing, 2021, 127, 1.            | 2.3 | 12        |
| 25 | Role of vacancy defects on the dehydrogenation properties of the ternary hydride ZrNiH <sub>3</sub> : Ab-initio insights. International Journal of Hydrogen Energy, 2021, 46, 13088-13096.  | 7.1 | 13        |
| 26 | Microstructural and Electrochemical Characterization of Zinc Coating onto Low Carbon Steel Substrate. Metallography, Microstructure, and Analysis, 2021, 10, 208-218.   | 1.0 | 5         |
| 27 | Tuning the photocatalytic activity of TiO <sub>2</sub> by Ag loading: Experimental and modelling studies for the degradation of amlodipine besylate drug. Ceramics International, 2021, 47, 21509-21521.                          | 4.8 | 9         |
| 28 | Experimental and Theoretical Studies of the Corrosion Inhibition Properties of 2 Amino, 4â€6-Dimethylpyrimidine for Mild Steel in 0.5ÅM H <sub>2</sub> SO <sub>4</sub> . Chemistry Africa, 2021, 4, 621-633.                      | 2.4 | 6         |
| 29 | Microwave synthesized $\hat{I}^{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> /MoS <sub>2</sub> /rGO composites as high-performance supercapacitor. Materials Letters, 2021, 293, 129721.   | 2.6 | 9         |
| 30 | Efficient photodegradation of azucryl red by copper-doped TiO <sub>2</sub> nanoparticlesâ€experimental and modeling studies. Environmental Science and Pollution Research, 2021, 28, 57543-57556.                                 | 5.3 | 12        |
| 31 | Reviewâ€Perovskite/Spinel Based Graphene Derivatives Electrochemical and Biosensors. Journal of the Electrochemical Society, 2021, 168, 067506.   | 2.9 | 15        |
| 32 | Design of copper (II) oxide nanoflakes decorated with molybdenum disulfide@reduced graphene oxide composite as an electrode for high performance supercapacitor. Synthetic Metals, 2021, 278, 116843.                             | 3.9 | 7         |
| 33 | Novel mulliteâ€cordierite ceramic refractory fabricated from halloysite and talc. International Journal of Applied Ceramic Technology, 2021, 18, 70-80.   | 2.1 | 7         |
| 34 | Reduced graphene oxide/spinel ferrite nanocomposite as an efficient adsorbent for the removal of Pb (II) from aqueous solution. Journal of Materials Science: Materials in Electronics, 2021, 32, 28253-28274.                    | 2.2 | 8         |
| 35 | Prediction of New Hydrogen Storage Materials: Structural Stability of SrAlH <sub>3</sub> from First Principle Calculation. Springer Proceedings in Energy, 2021, , 113-119.   | 0.3 | 0         |
| 36 | Enhancement of photocatalytic degradation of methylene blue dye using Ti <sup>3+</sup> doped In <sub>2</sub> O <sub>3</sub> nanocubes prepared by hydrothermal method. Optik, 2020, 202, 163662.                                  | 2.9 | 9         |

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|----|---|-----|-----------|
| 37 | Dependence of structure/morphology on electrical/magnetic properties of hydrothermally synthesised cobalt ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 493, 165703.  | 2.3 | 49        |
| 38 | Structure and morphology of synthesized lanthanum hydroxide [La(OH) <sub>3</sub> ] nanocrystalline powders: study on fuel to oxidant ratio. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 711-720.                                   | 1.9 | 3         |
| 39 | Dependence of Fe Doping and Milling on TiO <sub>2</sub> Phase Transformation: Optical and Magnetic Studies. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 427-440.  | 1.8 | 6         |
| 40 | Structural and Electrical Characterization of Ba/ZnO Nanoparticles Fabricated by Co-precipitation. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 2633-2644.   | 3.7 | 26        |
| 41 | Synthesis, morphology, crystallite size and adsorption properties of nanostructured Mg <sup>2+</sup> /Zn ferrites with enhanced porous structure. <i>Journal of Alloys and Compounds</i> , 2020, 819, 152945.                                       | 5.5 | 118       |
| 42 | Effect of aluminum loading on structural and morphological characteristics of ZnO nanoparticles for heavy metal ion elimination. <i>Environmental Science and Pollution Research</i> , 2020, 27, 3086-3099.   | 5.3 | 20        |
| 43 | Enhanced thermodynamic properties of ZrNiH <sub>3</sub> by substitution with transition metals (V, Ti, Fe, Mn and Tj ETQq1 1 0.784314 rgBT /Qv  | 7.1 | 13        |
| 44 | Cu <sub>2</sub> O addition and sintering temperature dependence of structural, microstructural and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Materials Chemistry and Physics</i> , 2020, 256, 123706. | 4.0 | 11        |
| 45 | Phase formation and magnetic properties of nanocrystalline Ni <sub>70</sub> Co <sub>30</sub> alloy prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156392.   | 5.5 | 12        |
| 46 | Flexible and high-performance broadband nanoflowers tin sulfide photodetector. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.   | 2.3 | 12        |
| 47 | The study of photocatalytic degradation of a commercial azo reactive dye in a simple design reusable miniaturized reactor with interchangeable TiO <sub>2</sub> nanofilm. <i>Arab Journal of Basic and Applied Sciences</i> , 2020, 27, 287-298.    | 2.1 | 13        |
| 48 | Tunable Microwave Absorbing Properties of CoFe <sub>2</sub> O <sub>4</sub> /PANI Nanocomposites. <i>Journal of Electronic Materials</i> , 2020, 49, 6187-6198.  | 2.2 | 14        |
| 49 | Tin Sulfide Flower-Like Structure as High-Performance Near-Infrared Photodetector. <i>Journal of Electronic Materials</i> , 2020, 49, 5824-5830.  | 2.2 | 9         |
| 50 | Surface, structural and optical properties dependence of Fe-doped TiO <sub>2</sub> films deposited onto soda-lime glass. <i>Surfaces and Interfaces</i> , 2020, 21, 100682.   | 3.0 | 9         |
| 51 | Growth of ZnO Nanostructures by Wet Oxidation of Zn Thin Film Deposited on Heat-Resistant Flexible Substrates at Low Temperature. <i>Semiconductors</i> , 2020, 54, 1220-1223.  | 0.5 | 3         |
| 52 | Biosynthesis of Zinc oxide nanoparticles from essential oil of <i>Eucalyptus globulus</i> with antimicrobial and anti-biofilm activities. <i>Materials Today Communications</i> , 2020, 25, 101553.   | 1.9 | 33        |
| 53 | A high-performance near-infrared photodetector based on In <sub>2</sub> SnS phase. <i>Materials Letters</i> , 2020, 273, 127910.  | 2.6 | 14        |
| 54 | Temperature and pressure dependence on structural, electronic and thermal properties of ZnO wurtzite phase – first principle investigation. <i>Phase Transitions</i> , 2020, 93, 654-665.   | 1.3 | 3         |

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|----|--|-----|-----------|
| 55 | High-performance supercapacitor based on Cu <sub>2</sub> O/MoS <sub>2</sub> /rGO nanocomposite. <i>Materials Letters</i> , 2020, 275, 128095.  | 2.6 | 23        |
| 56 | Low temperature solvothermal synthesis of pristine Co <sub>3</sub> O <sub>4</sub> nanoparticles as potential supercapacitor. <i>Surfaces and Interfaces</i> , 2020, 19, 100535.  | 3.0 | 24        |
| 57 | Investigation of the toxic effects of different polystyrene micro-and nanoplastics on microalgae <i>Chlorella vulgaris</i> by analysis of cell viability, pigment content, oxidative stress and ultrastructural changes. <i>Marine Pollution Bulletin</i> , 2020, 156, 111278. | 5.0 | 112       |
| 58 | Dependence of NiTi hydride stability by co-substitution by (Zr,Mg) onto Ti and (Cr,Cu) onto Ni: first-principles study. <i>Philosophical Magazine</i> , 2020, 100, 2458-2476.  | 1.6 | 0         |
| 59 | Structural analysis and densification study of the mechanically alloyed Cr <sub>50</sub> Ni <sub>50</sub> powders. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 2515-2524.   | 3.0 | 5         |
| 60 | Electronic, magnetic, reentrant and spin compensation phenomena in Fe <sub>2</sub> MnGa Heusler alloy. <i>Physica Scripta</i> , 2020, 95, 065803.  | 2.5 | 10        |
| 61 | Synergistic effects of stretching/polarization temperature and electric field on phase transformation and piezoelectric properties of polyvinylidene fluoride nanofilms. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.                            | 2.3 | 5         |
| 62 | Structural, Microstructural, and Magnetic Property Dependence of Nanostructured Ti <sub>50</sub> Ni <sub>43</sub> Cu <sub>7</sub> Powder Prepared by High-Energy Mechanical Alloying. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 2059-2071.           | 1.8 | 3         |
| 63 | Formation of Silver Nanoparticles by a Novel Irradiation Method Without a Reducing Agent and Their Impact on Four Pathogenic Bacterial Strains. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 3095-3104.                                   | 3.7 | 3         |
| 64 | The influence of cationic surfactant CTAB on optical, dielectric and magnetic properties of cobalt ferrite nanoparticles. <i>Ceramics International</i> , 2020, 46, 11705-11716.   | 4.8 | 28        |
| 65 | Occurrence and characterization of surface sediment microplastics and litter from North African coasts of Mediterranean Sea: Preliminary research and first evidence. <i>Science of the Total Environment</i> , 2020, 713, 136664.   | 8.0 | 77        |
| 66 | Composite zeolite beta catalysts for catalytic hydrocracking of plastic waste to liquid fuels. <i>Materials for Renewable and Sustainable Energy</i> , 2020, 9, 1.   | 3.6 | 26        |
| 67 | Removal of Basic Fuchsin from water by using mussel powdered eggshell membrane as novel bioadsorbent: Equilibrium, kinetics, and thermodynamic studies. <i>Environmental Research</i> , 2020, 186, 109484.   | 7.5 | 42        |
| 68 | Cold pressing dependence on microstructure and electrochemical performance of porous TiNi alloy. <i>Materials Research Express</i> , 2019, 6, 096559.  | 1.6 | 5         |
| 69 | Toxicity Effect of Silver Nanoparticles on Photosynthetic Pigment Content, Growth, ROS Production and Ultrastructural Changes of Microalgae <i>Chlorella vulgaris</i> . <i>Nanomaterials</i> , 2019, 9, 914.   | 4.1 | 48        |
| 70 | Structural, optical, and magnetic properties of Ca <sup>2+</sup> doped La <sub>2</sub> CuO <sub>4</sub> perovskite nanoparticles. <i>Vacuum</i> , 2019, 167, 407-415.  | 3.5 | 22        |
| 71 | Optimization of Precursor Concentration for the Fabrication of V <sub>2</sub> O <sub>5</sub> Nanorods and their MSM Photodetector on Silicon Substrate. <i>Journal of Electronic Materials</i> , 2019, 48, 5640-5649.  | 2.2 | 3         |
| 72 | Dependence of pH on phase stability, optical and photoelectrical properties of SnS thin films. <i>Superlattices and Microstructures</i> , 2019, 128, 170-176.  | 3.1 | 18        |

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|----|---|-----|-----------|
| 73 | Multilayered ZnO/TiO <sub>2</sub> nanostructures as efficient corrosion protection for stainless steel 304. <i>Materials Research Express</i> , 2019, 6, 055052.  | 1.6 | 7         |
| 74 | Microstructural, Magnetic, and Nanoindentation Studies of the Ball-Milled Ti <sub>80</sub> Ni <sub>20</sub> Alloy. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 3623-3636.   | 1.8 | 10        |
| 75 | Comprehensive photoresponse study on high performance and flexible In-SnS photodetector with near-infrared response. <i>Materials Science in Semiconductor Processing</i> , 2019, 100, 270-274.   | 4.0 | 22        |
| 76 | Europium incorporation dynamics within NiO films deposited by sol-gel spin coating: Experimental and theoretical studies. <i>Materials Research Bulletin</i> , 2019, 118, 110525.   | 5.2 | 20        |
| 77 | Synergistic effect of Rutile-Anatase Fe-doped TiO <sub>2</sub> as efficient nanocatalyst for the degradation of Azucryl Red. <i>Materials Research Express</i> , 2019, 6, 0850f5.   | 1.6 | 12        |
| 78 | Facile synthesis of Fe <sup>3+</sup> doped La <sub>2</sub> CuO <sub>4</sub> /LaFeO <sub>3</sub> perovskite nanocomposites: Structural, optical, magnetic and catalytic properties. <i>Materials Science in Semiconductor Processing</i> , 2019, 100, 225-235.   | 4.0 | 40        |
| 79 | Selectivity and efficient Pb and Cd ions removal by magnetic MFe <sub>2</sub> O <sub>4</sub> (M=Co, Ni, Cu and Zn) nanoparticles. <i>Materials Chemistry and Physics</i> , 2019, 232, 254-264.  | 4.0 | 37        |
| 80 | Effect of annealing on phase formation, microstructure and magnetic properties of MgFe <sub>2</sub> O <sub>4</sub> nanoparticles for hyperthermia. <i>European Physical Journal Plus</i> , 2019, 134, 1.  | 2.6 | 17        |
| 81 | Dependence of phase distribution and magnetic properties of milled and annealed ZnO-Fe <sub>2</sub> O <sub>3</sub> nanostructures as efficient adsorbents of heavy metals. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9683-9694. | 2.2 | 5         |
| 82 | Computational study on intermolecular charge transfer complex of 2,2'-bipyridine with picric acid: TD-DFT, NBO and QTAIM analysis. <i>Materials Research Express</i> , 2019, 6, 075104.   | 1.6 | 5         |
| 83 | Fabrication and characterization of nanostructured MgO-Fe <sub>2</sub> O <sub>3</sub> composite by mechanical milling as efficient adsorbent of heavy metals. <i>Journal of Alloys and Compounds</i> , 2019, 772, 1030-1039.                                    | 5.5 | 21        |
| 84 | Influence of RF sputtering power on surface properties and biocompatibility of 316L stainless steel alloy by deposition of TiO <sub>2</sub> thin films. <i>Materials Research Express</i> , 2019, 6, 035401.  | 1.6 | 11        |
| 85 | Composition dependent tuning of electronic and magnetic properties in transition metal substituted Rock-salt MgO. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 475, 44-53.  | 2.3 | 3         |
| 86 | Photoluminescence of ZnS:Cu quantum dots embedded in silica thin films. <i>Journal of Luminescence</i> , 2019, 207, 258-265.  | 3.1 | 5         |
| 87 | Ferromagnetic order in substitutional Fe-doped In <sub>2</sub> O <sub>3</sub> powder. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 108, 253-256.  | 2.7 | 4         |
| 88 | Recent Advances in Iron Oxide Nanoparticles (IONPs): Synthesis and Surface Modification for Biomedical Applications. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 779-795.   | 1.8 | 55        |
| 89 | Silver decorated Cu/ZnO photocomposite: efficient green degradation of malachite. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3629-3638.  | 2.2 | 18        |
| 90 | Effects of strain, defects and crystal phase transition in mechanically milled nanocrystalline In <sub>2</sub> O <sub>3</sub> powder. <i>Materials Research Express</i> , 2019, 6, 025017.  | 1.6 | 11        |

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|-----|--|-----|-----------|
| 91  | Effect of Ag doping of TiO <sub>2</sub> nanoparticles on anatase-rutile phase transformation and excellent photodegradation of amlodipine besylate. <i>Materials Letters</i> , 2019, 236, 640-643.   | 2.6 | 24        |
| 92  | Hydrogen induced changes of optical and magnetic properties of nanocrystalline Zn <sub>0.95</sub> Gd <sub>0.03</sub> M <sub>0.02</sub> O (M=Al,Mg): Experimental and DFT studies. <i>Journal of Alloys and Compounds</i> , 2019, 776, 575-585.   | 5.5 | 3         |
| 93  | Effect of Er doping on the microstructural, optical, and photocatalytic activity of TiO <sub>2</sub> thin films. <i>Materials Research Express</i> , 2019, 6, 016406.  | 1.6 | 5         |
| 94  | Growth and characterization of GaN nanostructures under various ammoniating time with fabricated Schottky gas sensor based on Si substrate. <i>Superlattices and Microstructures</i> , 2018, 117, 92-104.  | 3.1 | 15        |
| 95  | Physicochemical and electrochemical properties of Gd <sup>3+</sup> -doped ZnSe thin films fabricated by single-step electrochemical deposition process. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1197-1207.  | 2.5 | 33        |
| 96  | Conventional and microwave combustion synthesis of optomagnetic CuFe <sub>2</sub> O <sub>4</sub> nanoparticles for hyperthermia studies. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 115, 162-171.   | 4.0 | 71        |
| 97  | High performance and low-cost UV-Visible-NIR photodetector based on tin sulphide nanostructures. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2256-2262.  | 5.5 | 50        |
| 98  | Structural and optical properties of silica single-layer films doped with ZnS quantum dots: Photoluminescence monitoring of annealing-induced defects. <i>Materials Science in Semiconductor Processing</i> , 2018, 76, 42-49.   | 4.0 | 5         |
| 99  | Pure and (Er, Al) co-doped ZnO nanoparticles: synthesis, characterization, magnetic and photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10677-10685.  | 2.2 | 10        |
| 100 | Effect of (Cd, Al) Co-doping and hydrogenation on the long-range ferromagnetic ordering of ZnO: Experimental and DFT studies. <i>Journal of Alloys and Compounds</i> , 2018, 753, 813-820.   | 5.5 | 7         |
| 101 | Exploring pristine and Li-doped Mg <sub>2</sub> NiH <sub>4</sub> compounds with potential lithium-storage properties: Ab initio insight. <i>Journal of Alloys and Compounds</i> , 2018, 746, 140-146.  | 5.5 | 8         |
| 102 | Effect of cobalt substitution on structural, elastic, magnetic and optical properties of zinc ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 731, 1256-1266.  | 5.5 | 208       |
| 103 | Effect of fuels on the autocombustion reaction synthesis of nanocrystalline gadolinium sesquioxide (Gd <sub>2</sub> O <sub>3</sub> ) powder: evaluation of structure, morphology, optical and electrical properties. <i>Journal of the Australian Ceramic Society</i> , 2018, 54, 279-293. | 1.9 | 3         |
| 104 | Okra extract-assisted green synthesis of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles and their optical, magnetic, and antimicrobial properties. <i>Materials Chemistry and Physics</i> , 2018, 204, 410-419.  | 4.0 | 138       |
| 105 | Influence of pH value on structural, optical and photoresponse properties of SnS films grown via chemical bath deposition. <i>Materials Letters</i> , 2018, 210, 279-282.  | 2.6 | 30        |
| 106 | Structural characterization and optical constants of CuIn <sub>3</sub> Se <sub>5</sub> vacuum and air annealed thin films. <i>Optical Materials</i> , 2018, 75, 686-694.   | 3.6 | 14        |
| 107 | Self heating efficiency of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles: A comparative investigation on the conventional and microwave combustion method. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1536-1545.   | 5.5 | 26        |
| 108 | Influence of gas carrier on morphological and optical properties of nanostructured In <sub>2</sub> O <sub>3</sub> grown by solid-vapour process. <i>Ceramics International</i> , 2018, 44, 4699-4703.  | 4.8 | 3         |

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|-----|--|-----|-----------|
| 109 | Green synthesis of cobalt ferrite nanoparticles using <i>Cydonia oblonga</i> extract: structural and Mössbauer studies. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 672, 54-66.  | 0.9 | 38        |
| 110 | Co <sup>2+</sup> substituted La <sub>2</sub> CuO <sub>4</sub> /LaCoO <sub>3</sub> perovskite nanocomposites: synthesis, properties and heterogeneous catalytic performance. <i>New Journal of Chemistry</i> , 2018, 42, 18128-18142.   | 2.8 | 29        |
| 111 | La-doped Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanoparticles: effect of cobalt precursors on structure and morphology. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 674, 110-119.  | 0.9 | 23        |
| 112 | Structural and magnetic properties of copper oxide films deposited by DC magnetron reactive sputtering. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.   | 2.3 | 15        |
| 113 | Theoretical investigation of structural, electronic and optical properties of (BeS) <sub>1</sub> /(BeSe) <sub>1</sub> , (BeSe) <sub>1</sub> /(BeTe) <sub>1</sub> and (BeS) <sub>1</sub> /(BeTe) <sub>1</sub> superlattices under pressure. <i>Chemical Physics Letters</i> , 2018, 713, 71-84. | 2.6 | 5         |
| 114 | Dependence of photoluminescence on doping concentration of Ho <sup>3+</sup> in nanocrystalline La(OH) <sub>3</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18718-18726.  | 2.2 | 2         |
| 115 | Structural, elastic, electronic and optical properties of novel antiferroelectric KNaX (X = S, Se, and Te) compounds: First principles study. <i>Physica B: Condensed Matter</i> , 2018, 545, 18-29.   | 2.7 | 12        |
| 116 | Facile microwave assisted combustion synthesis, structural, optical and magnetic properties of La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> (0 ≤ x ≤ 0.5) perovskite nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 48-57.                              | 2.3 | 41        |
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