List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | BaZrO3 perovskite – A UV light mediated congo red dye deactivator catalyst with good optical switching and antimicrobial abilities green synthesized using Moringa oleifera leaf extract. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 278, 115636. | 1.7 | 5 |
| 2 | Green Synthesis of Environmentally Benign BaZrO3 Perovskite Using Plectranthus amboinicus and Ocimum sanctum Leaf Extracts and Comparison on Their Photocatalytic, Magnetic and Antimicrobial Properties. Brazilian Journal of Physics, 2022, 52, . | 0.7 | 3 |
| 3 | Potential suitability of NiO-CuO nanocomposite for photoconductive sensor, soft magnetic materials applications and as antimicrobial agent. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 268, 115143. | 1.7 | 11 |
| 4 | Photoconductive and Antimicrobial Properties of <i>Psidium guajava</i> Leaf Extract Mediated Green Synthesized SnS ₂ –CdO and SnS ₂ –NiO Nanocomposites. International Journal of Nanoscience, 2021, 20, . | 0.4 | 9 |
| 5 | A comparative study on the photocatalytic performance of two third order NLO active nanocomposites (NiO-CdO and NiO-CuO) green synthesized using Psidium guajava leaf extract. Inorganic Chemistry Communication, 2021, 134, 109073. | 1.8 | 6 |
| 6 | Solvent volume dominated improved Haacke's quality factor values realized for CdO:Mo thin films well suited for optoelectronic applications. Optical and Quantum Electronics, 2021, 53, 1. | 1.5 | 1 |
| 7 | Structural, morphological and optoelectronic properties of CdO:Ag films – precursor solution aging effect. Surface Engineering, 2020, 36, 418-423. | 1.1 | 7 |
| 8 | Realization of Improved Visible Light-Mediated Photocatalytic Activity of Al2O3 Nanoparticles Through Cobalt Doping. Journal of Electronic Materials, 2020, 49, 869-879. | 1.0 | 8 |
| 9 | Visible light mediated photocatalytic activity of Ni-doped Al2O3 nanoparticles. Surfaces and Interfaces, 2020, 18, 100416. | 1.5 | 9 |
| 10 | (Zn + Co) co-doped CdO thin films with improved figure of merit values and ferromagnetic orderings with low squareness ratio well suited for optoelectronic devices and soft magnetic materials applications. Applied Physics A: Materials Science and Processing, 2020, 126, 1. | 1.1 | 9 |
| 11 | Magnetically Separable CdO–TiO2–CuO Ternary Nanocomposite Photocatalyst for Effective Degradation of RhB under Visible-Light Irradiation. Journal of Electronic Materials, 2020, 49, 4418-4430. | 1.0 | 10 |
| 12 | Realization of improved Hackee's quality factor and photo degradation efficiency of cauliflower shape nanostructured CdO thin films through Cs doping. Photonics and Nanostructures - Fundamentals and Applications, 2020, 40, 100784. | 1.0 | 8 |
| 13 | Improved Haacke's quality factor and paramagnetic-to-ferromagnetic transition realized in Ni co-doped CdO:Zn thin films. Journal of Materials Science: Materials in Electronics, 2020, 31, 12169-12177. | 1.1 | 3 |
| 14 | Visible light irradiated photocatalytic performance of SnS2-CdO nanocomposite against the degradation of rhodamine B (cationic) and congo red (anionic) dyes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 255, 114530. | 1.7 | 22 |
| 15 | Structural, optical, electrical and catalytic properties of precursor solution-aged spray deposited undoped, Zn-doped and Ag-doped CdO thin films. Bulletin of Materials Science, 2020, 43, 1. | 0.8 | 5 |
| 16 | Cauliflower shaped CdO:Mo nanostructures with enhanced photocatalytic activity against the degradation of metanil yellow dye. Nano Structures Nano Objects, 2020, 22, 100458. | 1.9 | 4 |
| 17 | Doping effect investigation of Li-doped CdS thin films. Surface Engineering, 2019, 35, 79-85. | 1.1 | 6 |
| 18 | CdO:Ag thin films with enhanced visible light photocatalytic activity against metanil yellow. SN Applied Sciences, 2019, 1, 1. | 1.5 | 6 |

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| 19 | (Ba+Co) codoped CdS thin films with enhanced magnetic and photodegradation properties. Materials Research Express, 2019, 6, 056414. | 0.8 | 7 |
| 20 | Photocatalytic Performance of SnO2 Coupled CdO Nanoparticles Against MY and RhB Dyes. Journal of Electronic Materials, 2019, 48, 3676-3685. | 1.0 | 13 |
| 21 | NiO coupled SnS2 nanoparticles with improved magnetic and photocatalytic performance against the degradation of organic dyes without N N double bond. Vacuum, 2019, 163, 373-383. | 1.6 | 19 |
| 22 | Improved magnetic and photocatalytic properties of spray deposited (Li+Co) codoped CdS thin films. Superlattices and Microstructures, 2019, 129, 28-39. | 1.4 | 17 |
| 23 | NiO coupled CdO nanoparticles with enhanced magnetic and antifungal properties. Surfaces and Interfaces, 2019, 15, 11-18. | 1.5 | 24 |
| 24 | Multi metal oxide CdO–Al ₂ O ₃ –NiO nanocomposite—synthesis, photocatalytic and magnetic properties. Materials Research Express, 2019, 6, 015022. | 0.8 | 28 |
| 25 | xmins:mml= http://www.w3.org/1998/Math/Math/MathML_display= inline_overflow= scroll_id= d1e544 altimg="si65.gif"> < mml:msub> < mml:mrow /> < mml:mrow> < mml:mn> 2 < /mml:mn> < /mml:mrow> < /mml:msub> < /mml:math> O < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e552" | 1.9 | 22 |
| 26 | Photocatalytic Performance of SnO2:Mo Nanopowders Against the Degradation of Methyl Orange and Rhodamine B Dyes Under Visible Light Irradiation. Journal of Electronic Materials, 2019, 48, 401-408. | 1.0 | 16 |
| 27 | CdO Al2O3 – A composite material with enhanced photocatalytic activity against the degradation of MY dye. Vacuum, 2019, 159, 9-16. | 1.6 | 33 |
| 28 | Aging effect of the precursor solution on the structural, morphological and opto-electrical properties of spray deposited CdO thin films. Materials Science-Poland, 2019, 37, 1-7. | 0.4 | 4 |
| 29 | CdO-Fe ₃ O ₄ nanocomposite with enhanced magnetic and photocatalytic properties. Materials Science-Poland, 2019, 37, 100-107. | 0.4 | 24 |
| 30 | Synthesis and characterization of NiO-CdO composite materials towards photoconductive and antibacterial applications. Materials Chemistry and Physics, 2018, 211, 88-96. | 2.0 | 67 |
| 31 | Visible light irradiated photocatalytic activity of SnS ₂ -CdS nanocomposite against the degradation of methyl orange dye. Materials Technology, 2018, 33, 333-339. | 1.5 | 23 |
| 32 | Ferromagnetism in CdO nanopowder – Role of bioactive elements. Materials Letters, 2018, 217, 202-205. | 1.3 | 4 |
| 33 | PbS-NiO nanocomposite material with enhanced magnetic, photocatalytic and antifungal properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 229, 118-125. | 1.7 | 44 |
| 34 | Photoconductive and photocatalytic properties of CdO–NiO nanocomposite synthesized by a cost effective chemical method. Journal of Materials Science: Materials in Electronics, 2018, 29, 11384-11393. | 1.1 | 42 |
| 35 | Visible light irradiated photocatalytic and magnetic properties of Fe-doped SnS2 nanopowders. Journal of Materials Science: Materials in Electronics, 2018, 29, 9016-9024. | 1.1 | 19 |
| 36 | TG–DTA analysis, structural, optical and magnetic properties of PbS thin films doped with Co2+ ions. Journal of Materials Science: Materials in Electronics, 2018, 29, 6051-6058. | 1.1 | 13 |

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|----|--|-----|-----------|
| 37 | Structural, morphological, optical and electrical properties of spray deposited ternary CdAgS thin films towards optoelectronic applications. Materials Research Innovations, 2018, 22, 79-84. | 1.0 | 11 |
| 38 | Optical and magnetic properties of CdO thin films doped with Ba ²⁺ (cation) ions. Materials Research Innovations, 2018, 22, 237-241. | 1.0 | 13 |
| 39 | Modulation of microstructure and magnetic properties of Sr-doped CdO films. Surface Engineering, 2018, 34, 682-688. | 1.1 | 17 |
| 40 | PbS–SnO2 nanocomposite with enhanced magnetic, photocatalytic and antifungal properties. Journal of Materials Science: Materials in Electronics, 2018, 29, 1065-1074. | 1.1 | 23 |
| 41 | Improved photodegradation activity of SnO2 nanopowder against methyl orange dye through Ag doping. Journal of Materials Science: Materials in Electronics, 2018, 29, 3657-3664. | 1.1 | 18 |
| 42 | Enhanced photocatalytic and antifungal properties of PbS nanopowder doped with Ag+ ions. Journal of Materials Science: Materials in Electronics, 2018, 29, 4312-4319. | 1.1 | 11 |
| 43 | Enhanced photocatalytic and antifungal properties of Sr-doped PbS nanopowders. Materials Technology, 2018, 33, 214-219. | 1.5 | 17 |
| 44 | Effect of Gd3+ Ions on the Thermal Behavior, Optical, Electrical and Magnetic Properties of PbS Thin Films. Journal of Electronic Materials, 2018, 47, 1271-1278. | 1.0 | 18 |
| 45 | Growth and characterization of third-order nonlinear optical lithium hydrogen maleate dihydrate single-crystal. International Journal of Modern Physics B, 2018, 32, 1850351. | 1.0 | 4 |
| 46 | Photoconductive, photocatalytic and antifungal properties of PbS:Mo nanoparticles synthesized via precipitation method. Surfaces and Interfaces, 2018, 13, 148-156. | 1.5 | 16 |
| 47 | Thermal behavior and comparative study on the visible light driven photocatalytic performance of SnS2–ZnS nanocomposite against the degradation of anionic and cationic dyes. Journal of Materials Science: Materials in Electronics, 2018, 29, 18708-18717. | 1.1 | 18 |
| 48 | Reply to Comments on "Structural, Optical, and Electrical Properties of Zn-Doped CdO Thin Films Fabricated by a Simplified Spray Pyrolysis Technique―by K. Usharani and A.R. Balu published in Acta Metall. Sin. (Engl. Lett.) 28(1), 64–71 (2015). Acta Metallurgica Sinica (English Letters), 2018, 31, 1007-1008. | 1.5 | 0 |
| 49 | Investigations on the Properties of Nanostructured Mg-Doped Sn ₂ S ₃ Thin Films towards Photovoltaic Applications. Acta Physica Polonica A, 2018, 133, 15-19. | 0.2 | 4 |
| 50 | Studies on the spectroscopic, photoconductive properties and antifungal activities of Al-doped PbS nanopowders synthesized by a simple soft chemical route. Journal of Materials Science: Materials in Electronics, 2017, 28, 5344-5351. | 1.1 | 11 |
| 51 | Studies on ternary PbZnS films suited for optoelectronic applications. Surface Engineering, 2017, 33, 506-511. | 1.1 | 14 |
| 52 | Optical and magnetic properties of PbS thin films doped with Fe2+ ions. Optik, 2017, 134, 121-127. | 1.4 | 34 |
| 53 | Effect of Co doping on the physical properties of Sn2S3 thin film. Journal of Materials Science: Materials in Electronics, 2017, 28, 11464-11472. | 1.1 | 4 |
| 54 | Optoelectronic, magnetic and antibacterial properties of CdO thin films doubly doped with Mn (cationic) and F (anionic) ions. Journal of Materials Science: Materials in Electronics, 2017, 28, 7615-7621. | 1.1 | 21 |

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| 55 | Optoelectronic, magnetic and antifungal properties of CdS thin films co-doped with zinc and bromine. Journal of Materials Science: Materials in Electronics, 2017, 28, 10433-10440. | 1.1 | 7 |
| 56 | Thermal behavior, magnetic and antimicrobial properties of PbS–CdO nanocomposite synthesized by a simple soft chemical route. Journal of Materials Science: Materials in Electronics, 2017, 28, 12348-12355. | 1.1 | 32 |
| 57 | Optical and magnetic properties of Ba-doped CdS thin films. Surface Engineering, 2017, 33, 835-840. | 1.1 | 17 |
| 58 | Optoelectronic, magnetic and antibacterial properties of Zr-doped CdS thin films. Optik, 2017, 138, 398-406. | 1.4 | 18 |
| 59 | Synthesis and characterization of Zr-doped SnS2 nanopowders by a simple soft chemical route towards magnetic and antibacterial applications. Surfaces and Interfaces, 2017, 9, 58-63. | 1.5 | 14 |
| 60 | PbS nanopowder – synthesis, characterization and antimicrobial activity. Materials Science-Poland, 2017, 35, 322-328. | 0.4 | 20 |
| 61 | Spectroscopic, magnetic and antibacterial properties of Sr-doped SnS2 nanopowders. Optik, 2017, 142, 301-310. | 1.4 | 33 |
| 62 | Influence of strontium doping level on the magnetic properties of CdS thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 14848-14854. | 1.1 | 6 |
| 63 | TG-DSC analysis, magnetic and antifungal properties of Al-doped SnS2 nanopowders. Journal of Materials Science: Materials in Electronics, 2017, 28, 15556-15564. | 1.1 | 24 |
| 64 | Substrate temperature influence on the optical and electrical properties of spray deposited Sn2S3 thin films. Optik, 2017, 130, 245-254. | 1.4 | 9 |
| 65 | Influence of (ZnÂ+ÂF) double doping on the structural, morphological, photoluminescence, optoelectrical properties and antibacterial activity of CdS thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 2335-2342. | 1.1 | 11 |
| 66 | Double doping (Mn + Cl) effects on the structural, morphological, photoluminescence, optoelectronic properties and antibacterial activity of CdO thin films. Optik, 2017, 130, 464-472. | 1.4 | 25 |
| 67 | Structural, Morphological, Opto-Electrical and Photoluminescence Studies of Nanoplate Structured Zn-Doped Sn2S3 Thin Films. Transactions of the Indian Institute of Metals, 2017, 70, 1503-1509. | 0.7 | 7 |
| 68 | Bromine doping effect on some properties of CdS films. Surface Engineering, 2017, 33, 175-180. | 1.1 | 11 |
| 69 | Structural, optical, thermal and NLO behavior of zinc hydrogen maleate dihydrate single crystal. Materials Science-Poland, 2017, 35, 773-784. | 0.4 | 2 |
| 70 | Synthesis of CdO nanopowders by a simple soft chemical methodÂandÂevaluation of their antimicrobial activities. Pacific Science Review A Natural Science and Engineering, 2016, 18, 228-232. | 0.4 | 40 |
| 71 | Enhanced properties of Zn-, Mg-incorporated CdO films through Cl doping. Surface Engineering, 2016, 32, 829-833. | 1.1 | 22 |
| 72 | Characteristic analysis of nanostructured Cl-doped CdO thin films – doping effect. Materials Research Innovations, 2016, 20, 182-186. | 1.0 | 26 |

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| 73 | Properties of nanostructured Ni-doped Sn ₂ S ₃ thin films – doping concentration effect. Materials Research Innovations, 2016, 20, 395-399. | 1.0 | 10 |
| 74 | Enhancement in some physical properties of spray deposited CdO:Mn thin films through Zn doping towards optoelectronic applications. Optik, 2016, 127, 6400-6406. | 1.4 | 33 |
| 75 | Aging effect of the precursor solution on the structural, morphological, optical and electrical properties of ternary CdZnO thin films suited for optoelectronic applications. Optik, 2016, 127, 10602-10609. | 1.4 | 7 |
| 76 | Optimization of S:Sn precursor molar concentration on the physical properties of spray deposited single phase Sn ₂ S ₃ thin films. Materials Science-Poland, 2016, 34, 393-398. | 0.4 | 18 |
| 77 | Tuning the physical properties of PbS thin films towards optoelectronic applications through Ni doping. Optik, 2016, 127, 8892-8898. | 1.4 | 47 |
| 78 | Properties of CdS films doped with magnesium and fluorine. Surface Engineering, 2016, 32, 596-600. | 1.1 | 27 |
| 79 | Influence of Al doping on the structural, morphological and opto-electrical properties of spray deposited lead sulfide thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 7876-7882. | 1.1 | 21 |
| 80 | Effect of solvent volume on the physical properties of spray deposited nano needle structured Sn ₂ S ₃ thin films. Materials Research Innovations, 2016, 20, 307-311. | 1.0 | 13 |
| 81 | Doping concentration and annealing temperature effects on the properties of nanostructured ternary CdZnO thin films towards optoelectronic applications. Optik, 2016, 127, 2822-2829. | 1.4 | 21 |
| 82 | Properties of spray deposited nano needle structured Cu-doped Sn2S3 thin films towards photovoltaic applications. Optik, 2016, 127, 3999-4003. | 1.4 | 16 |
| 83 | Structural, morphological, optical and electrical properties of CdS thin films simultaneously doped with magnesium and chlorine. Journal of Materials Science: Materials in Electronics, 2016, 27, 1158-1164. | 1.1 | 32 |
| 84 | Enhancement in the physical properties of spray deposited nanostructured ternary PbMgS thin films towards optoelectronic applications. Journal of Materials Science: Materials in Electronics, 2016, 27, 5070-5078. | 1.1 | 31 |
| 85 | Precursor aging effect on the properties of CdZnS films. Surface Engineering, 2016, 32, 212-217. | 1.1 | 31 |
| 86 | Structural, optical and electrical properties of Cl-doped ternary CdZnS thin films towards optoelectronic applications. Optik, 2016, 127, 4943-4947. | 1.4 | 25 |
| 87 | Properties of spray deposited Zn, Mg incorporated CdO thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 2071-2078. | 1.1 | 30 |
| 88 | Effect of chlorine doping on the structural, morphological, optical and electrical properties of spray deposited CdS thin films. Progress in Natural Science: Materials International, 2015, 25, 392-398. | 1.8 | 75 |
| 89 | Effect of doping concentration on the structural, morphological, optical and electrical properties of Mn-doped CdO thin films. Materials Science-Poland, 2015, 33, 774-781. | 0.4 | 69 |
| 90 | Influence of precursor molar concentration on the structural, morphological, optical and electrical properties of PbS thin films deposited by spray pyrolysis technique using perfume atomizer. Optik, 2015, 126, 2550-2555. | 1.4 | 34 |

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| 91 | Properties of Cd doped PbS thin films: doping concentration effect. Surface Engineering, 2015, 31, 316-321. | 1.1 | 70 |
| 92 | Characteristic analysis on the physical properties of nanostructured Mg-doped CdO thin films—Doping concentration effect. Progress in Natural Science: Materials International, 2015, 25, 251-257. | 1.8 | 81 |
| 93 | Structural, Optical, and Electrical Properties of Zn-Doped CdO Thin Films Fabricated by a Simplified Spray Pyrolysis Technique. Acta Metallurgica Sinica (English Letters), 2015, 28, 64-71. | 1.5 | 58 |
| 94 | Effect of magnesium incorporation on the structural, morphological, optical and electrical properties of CdS thin films. Materials Science in Semiconductor Processing, 2014, 27, 915-923. | 1.9 | 66 |
| 95 | Structural, optical and electrical properties of ZnTe1â°'x Se x thin films. Journal of Materials Science: Materials in Electronics, 2011, 22, 607-613. | 1.1 | 1 |
| 96 | Influence of thickness on the microstructural, optoelectronic and morphological properties of nanocrystalline ZnSe thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 171, 93-98. | 1.7 | 26 |
| 97 | Influence of substrate temperature on the properties of electron beam evaporated ZnSe films. Crystal Research and Technology, 2010, 45, 421-426. | 0.6 | 14 |
| 98 | Structural, optical, and electrical properties of electron beam evaporated CdSe thin films. Crystal Research and Technology, 2010, 45, 387-392. | 0.6 | 14 |
| 99 | Effect of thickness on the microstructural, optoelectronic and morphological properties of electron beam evaporated ZnTe films. Journal of Alloys and Compounds, 2010, 502, 434-438. | 2.8 | 28 |
| 100 | Growth, vibrational, optical, dielectric, thermal and third order NLO single crystal of manganese(II) hydrogen maleate tetrahydrate. Materials Research Innovations, 0, , 1-5. | 1.0 | 1 |