



Advanced Surface Engineering and Nano Materials Research Center

Department of Physics, Ahvaz Branch, Islamic Azad University, Ahvaz, Iran

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TITLE	CITED BY	YEAR
Enhanced visible-light photocatalytic activity of strontium-doped zinc oxide nanoparticles R Yousefi, F Jamali-Sheini, M Cheraghizade, S Khosravi-Gandomani, ... Materials Science in Semiconductor Processing 32, 152-159	98	2015
Highly efficient photo-degradation of methyl blue and band gap shift of SnS nanoparticles under different sonication frequencies F Jamali-Sheini, R Yousefi, NA Bakr, M Cheraghizade, M Sookhakian, ... Materials Science in Semiconductor Processing 32, 172-178	62	2015
Experimental and theoretical study of enhanced photocatalytic activity of Mg-doped ZnO NPs and ZnO/rGO nanocomposites R Yousefi, J Beheshtian, SM Seyed-Talebi, HR Azimi, F Jamali-Sheini Chemistry—An Asian Journal 13 (2), 194-203	54	2018
Excellent photocatalytic performance of Zn (1- x) MgO/rGO nanocomposites under natural sunlight irradiation and their photovoltaic and UV detector applications A Kharatzadeh, F Jamali-Sheini, R Yousefi Materials & Design 107, 47-55	52	2016
Enhanced ethanol gas-sensing performance of Pb-doped In₂O₃ nanostructures prepared by sonochemical method A Montazeri, F Jamali-Sheini Sensors and Actuators B: Chemical 242, 778-791	50	2017
XPS studies and photocurrent applications of alkali-metals-doped ZnO nanoparticles under visible illumination conditions A Saaedi, R Yousefi, F Jamali-Sheini, AK Zak, M Cheraghizade, ... Physica E: Low-Dimensional Systems and Nanostructures 79, 113-118	50	2016
SnS nanosheet films deposited via thermal evaporation: the effects of buffer layers on photovoltaic performance F Jamali-Sheini, M Cheraghizade, R Yousefi Solar Energy Materials and Solar Cells 154, 49-56	38	2016
Photocurrent application of Zn-doped CdS nanostructures grown by thermal evaporation method MA Baghchesara, R Yousefi, M Cheraghizade, F Jamali-Sheini, A Saáedi Ceramics International 42 (1), 1891-1896	32	2016
Effect of Al doping on the structural and optical properties of electrodeposited SnS thin films H Kafashan, R Ebrahimi-Kahrizsangi, F Jamali-Sheini, R Yousefi physica status solidi (a) 213 (5), 1302-1308	31	2016
Nanostructured SnS_{1-x}Te_x thin films: Effect of Te concentration and physical properties H Kafashan, F Jamali-Sheini, R Ebrahimi-Kahrizsangi, R Yousefi Journal of Alloys and Compounds 681, 595-605	29	2016
The effect of tin sulfide quantum dots size on photocatalytic and photovoltaic performance M Cheraghizade, F Jamali-Sheini, R Yousefi, F Niknia, MR Mahmoudian, ... Materials Chemistry and Physics 195, 187-194	26	2017
Enhanced photocatalytic performance of ZnSe/PANI nanocomposites for degradation of organic and inorganic pollutants A Shirmardi, MAM Teridi, HR Azimi, WJ Basirun, F Jamali-Sheini, ... Applied Surface Science 462, 730-738	25	2018
Enhanced photovoltaic performance of tin sulfide nanoparticles by indium doping F Jamali-Sheini, M Cheraghizade, F Niknia, R Yousefi MRS Communications 6 (4), 421-428	24	2016
Synthesis and characterization of Fe₃O₄ rose like and spherical/reduced graphene oxide nanosheet composites for lead (II) sensor MR Mahmoudian, Y Alias, WJ Basirun, PM Woi, M Sookhakian, ... Electrochimica Acta 169, 126-133	23	2015
Ultrasonic synthesis of In-doped SnS nanoparticles and their physical properties F Jamali-Sheini, M Cheraghizade, R Yousefi Solid State Sciences 79, 30-37	22	2018

TITLE	CITED BY	YEAR
CuO and Ag/CuO nanoparticles: Biosynthesis and antibacterial properties N Ghasemi, F Jamali-Sheini, R Zekavati Materials Letters 196, 78-82	22	2017
Electrochemical synthesis and physical properties of Sn-doped CdO nanostructures Z Ganjani, F Jamali-Sheini, R Yousefi Superlattices and Microstructures 100, 988-996	21	2016
Broad spectral response of Se-doped SnS nanorods synthesized through electrodeposition F Jamali-Sheini, F Niknia, M Cheraghizade, R Yousefi, MR Mahmoudian ChemElectroChem 4 (6), 1478-1486	20	2017
Influence of growth conditions on the electrochemical synthesis of SnS thin films and their optical properties H Kafashan, F Jamali-Sheini, R Ebrahimi-Kahrizsangi, R Yousefi International Journal of Minerals, Metallurgy, and Materials 23 (3), 348-357	20	2016
Optical, electrical, and photovoltaic properties of PbS thin films by anionic and cationic dopants M Cheraghizade, F Jamali-Sheini, R Yousefi Applied Physics A 123 (6), 390	19	2017
Electrochemical deposition of nanostructured SnS_{1-x}Te_x thin films and their surface characterization H Kafashan, F Jamali-Sheini, M Azizieh, Z Balak, M Cheraghizade, ... Journal of Alloys and Compounds 694, 1338-1347	19	2017
Excellent photocatalytic performance under visible-light irradiation of ZnS/rGO nanocomposites synthesized by a green method HR Azimi, M Ghoranneviss, SM Elahi, MR Mahmoudian, F Jamali-Sheini, ... Frontiers of Materials Science 10 (4), 385-393	19	2016
Photocurrent applications of Zn_(1-x)Cd_xO/rGO nanocomposites RF Dezfuly, R Yousefi, F Jamali-Sheini Ceramics International 42 (6), 7455-7461	18	2016
Examining the effect of Zn dopant on physical properties of nanostructured SnS thin film by using electrodeposition F Niknia, F Jamali-Sheini, R Yousefi Journal of Applied Electrochemistry 46 (3), 323-330	18	2016
Photocurrent properties of undoped and Pb-doped SnS nanostructures grown using electrodeposition method F Niknia, F Jamali-Sheini, R Yousefi Journal of Electronic Materials 44 (12), 4734-4739	18	2015
Synthesis and characterization of Pb-doped ZnO nanoparticles and their photocatalytic applications R Yousefi, F Jamali-Sheini, M Cheraghizade, L Zaman Materials Research Innovations 20 (2), 121-127	16	2016
Influences of anionic and cationic dopants on the morphology and optical properties of PbS nanostructures R Yousefi, M Cheraghizade, F Jamali-Sheini, MR Mahmoudian, A Saa'edi, ... Chinese Physics B 23 (10), 108101	16	2014
Electrochemically synthesis and optoelectronic properties of Pb-and Zn-doped nanostructured SnSe films F Jamali-Sheini, M Cheraghizade, R Yousefi Applied Surface Science 443, 345-353	14	2018
Large-scale and facile fabrication of PbSe nanostructures by selenization of a Pb sheet S Hoomi, R Yousefi, F Jamali-Sheini, A Saa'edi, M Cheraghizade, ... Functional Materials Letters 8 (05), 1550063	14	2015
Sonochemical synthesis of Cu-doped CdO nanostructures and investigation of their physical properties A Eskandari, F Jamali-Sheini Materials Science in Semiconductor Processing 74, 210-217	12	2018
Synthesis and characterization of PbS mesostructures as an IR detector grown by hydrogen-assisted thermal evaporation M Cheraghizade, R Yousefi, F Jamali-Sheini, MR Mahmoudian, A Sa, ... Materials science in semiconductor processing 26, 704-709	12	2014
Pb-doped Cu₃Se₂ nanosheets: Electrochemical synthesis, structural features and optoelectronic properties F Monjezi, F Jamali-Sheini, R Yousefi Solar Energy 171, 508-518	11	2018
A simple method to fabricate an NIR detector by PbTe nanowires in a large scale MA Baghchesara, R Yousefi, M Cheraghizade, F Jamali-Sheini, A Sa'edi, ... Materials Research Bulletin 77, 131-137	11	2016
Photocurrent application of Cd-doped ZnTe nanowires grown in a large scale by a CVD method MA Baghchesara, R Yousefi, M Cheraghizade, F Jamali-Sheini, A Sa'edi Vacuum 123, 131-135	11	2016

TITLE	CITED BY	YEAR
Ultrasound-assisted electrodeposition of Cu₃Se₂ nanosheets and efficient solar cell performance F Monjezi, F Jamali-Sheini, R Yousefi Journal of Alloys and Compounds 780, 626-633	10	2019
Photovoltaic and photodetector performance of metal telluride nanowires grown by a simple CVD method MA Baghchesara, M Cheraghizade, F Jamali-Sheini, R Yousefi Journal of Materials Science: Materials in Electronics 28 (5), 4475-4480	10	2017
Large-scale and facial fabrication of PbS nanorods by sulfuration of a Pb sheet M Cheraghizade, R Yousefi, F Jamali-Sheini, A Saáedi, NM Huang Materials science in semiconductor processing 21, 98-103	10	2014
Annealing temperature of nanostructured SnS on the role of the absorber layer M Cheraghizade, F Jamali-Sheini, P Shabani Materials Science in Semiconductor Processing 90, 120-128	9	2019
Effect of annealing temperature and graphene concentrations on photovoltaic and NIR-detector applications of PbS/rGO nanocomposites R Yousefi, MR Mahmoudian, A Sa, M Cheraghizade, F Jamali-Sheini, ... Ceramics International 42 (14), 15209-15216	9	2016
Effect of thickness on the optoelectronic properties of electrodeposited nanostructured SnS films F Niknia, F Jamali-Sheini, R Yousefi, M Cheraghizade Optical and Quantum Electronics 50 (9), 339	8	2018
Microwave-assisted solvothermal synthesis and optoelectronic properties of γ-MnS nanoparticles B Ghanbari, F Jamali-Sheini, R Yousefi Journal of Materials Science: Materials in Electronics 29 (13), 10976-10985	7	2018
Effect of growth condition on structure and optical properties of hybrid Ag-CuO nanomaterials M Soltani, F Jamali-Sheini, R Yousefi Advanced Powder Technology 27 (5), 2196-2203	7	2016
Improvement visible-light photocatalytic performance of single-crystalline SnSe_{1±x} NPs toward degradation of organic pollutants AM Saray, R Yousefi, N Zare-Dehnavi, F Jamali-Sheini Solid State Sciences 98, 106044	6	2019
Investigation of the optoelectronic behavior of Pb-doped CdO nanostructures A Eskandari, F Jamali-Sheini, M Cheraghizade, R Yousefi Applied Nanoscience 8 (5), 937-948	6	2018
Tuning crystal phase and morphology of copper selenide nanostructures and their visible-light photocatalytic applications to degrade organic pollutants M Nouri, R Yousefi, N Zare-Dehnavi, F Jamali-Sheini Colloids and Surfaces A: Physicochemical and Engineering Aspects 586, 124196	5	2020
Optimization of absorber layer for band gap energy moderation of nanostructured SnS thin films M Cheraghizade, F Jamali-Sheini, P Shabani Journal of Materials Science: Materials in Electronics 30 (12), 11123-11135	5 *	2019
Synthesis and physical properties of un- and Zn-doped Ag₂S nanoparticles M Geravand, F Jamali-Sheini Advanced Powder Technology 30 (2), 347-358	4	2019
Electroplating of Ni/Co–pumice multilayer nanocomposite coatings: Effect of current density on crystal texture transformations and corrosion behavior M Boroujerdnia, H Ghayour, A Monshi, R Ebrahimi-Kahrizsangi, ... International Journal of Minerals, Metallurgy, and Materials 26 (10), 1299-1310	3	2019
Al-doped Ag₂S nanostructures: Ultrasonic synthesis and physical properties M Geravand, F Jamali-Sheini Ceramics International 45 (5), 6175-6182	3	2019
Corrigendum: Experimental and Theoretical Study of Enhanced Photocatalytic Activity of Mg-Doped ZnO NPs and ZnO/rGO Nanocomposites R Yousefi, J Beheshtian, SM Seyed-Talebi, HR Azimi, F Jamali-Sheini Chemistry—An Asian Journal 13 (9), 1228-1228	3	2018
Synthesis of Te-doped ZnO nanowires with promising field emission behavior F Jamali-Sheini RSC advances 6 (116), 115335-115344	3	2016
Type-II p (SnSe)-n (g-C₃N₄) heterostructure as a fast visible-light photocatalytic material: Boosted by an efficient interfacial charge transfer of pn heterojunction AM Saray, N Zare-Dehnavi, F Jamali-Sheini, R Yousefi Journal of Alloys and Compounds 829, 154436	2	2020

TITLE	CITED BY	YEAR
Charge transportation mechanisms in TiO₂/SnS/Ag solar cells M Cheraghizade, F Jamali-Sheini, P Shabani Materials Research Bulletin 124, 110727	2	2020
UV-assisted sonochemical synthesis and optoelectrical properties of Bi₂S₃/rGO nanocomposites L Heshmatynezhad, F Jamali-Sheini, A Monshi Ceramics International 45 (11), 13923-13933	2	2019
In-doped CuS nanostructures: Ultrasonic synthesis, physical properties, and enhanced photocatalytic behavior R Zeinodin, F Jamali-Sheini Physica B: Condensed Matter 570, 148-156	2	2019
Influence of synthesis parameters on the physical properties of Cu₃Se₂ nanostructures using the sonochemical method N Hoda, F Jamali-Sheini Ceramics International 45 (14), 16765-16755	2	2019
An efficient wide range photodetector fabricated using a bilayer Bi₂S₃/SnS heterojunction thin film F Jamali-Sheini, M Cheraghizade, L Heshmatynezhad Semiconductor Science and Technology 34 (4), 045008	2	2019
Ultrasonic synthesis of Zn-doped CdO nanostructures and their optoelectronic properties M Kavakebi, F Jamali-Sheini Transactions of Nonferrous Metals Society of China 28 (11), 2255-2264	2	2018
Enhanced solar cell performance of P3HT: PCBM by SnS nanoparticles SL Mousavi, F Jamali-Sheini, M Sabaeian, R Yousefi Solar Energy 199, 872-884	1	2020
Synthesis and characterization of type-II p (Cu_xSe_y)/n (g-C₃N₄) heterojunction with enhanced visible-light photocatalytic performance for degradation of dye pollutants M Nouri, N Zare-Dehnavi, F Jamali-Sheini, R Yousefi Colloids and Surfaces A: Physicochemical and Engineering Aspects, 124656	1	2020
Transient photocurrent response of Bi₂S₃/rGO nanocomposites synthesized by UV-assisted sonication method L Heshmatynezhad, F Jamali-Sheini, A Monshi Materials Research Express 6	1	2019
Substrate Temperature Effect on Photovoltaic Performance of Lead Sulfide (PbS) Nanostructures Deposited by Chemical Vapor Deposition (CVD) method M Cheraghizade, R Yousefi, F Jamali-Sheini Majlesi Journal of Telecommunication Devices 5 (3)	1	2016
Optoelectronic properties of Zn-doped Cu₃Se₂ nanosheets for photovoltaic application F Monjezi, F Jamali-Sheini, R Yousefi Ceramics International		2020
The effect of pumice reinforcing particles on the corrosion-and wear-resistance of Ni/Co-pumice bilayer coatings by electroplating M Boroujerdnia, H Ghayour, A Monshi, R Ebrahimi-Kahrizsangi, ... Materials Research Express 6 (12), 126506		2019
Microwave-assisted solvothermal synthesis and physical properties of Zn-doped MnS nanoparticles MM Hosseini-Hajivar, F Jamali-Sheini, R Yousefi Solid State Sciences 93, 31-36		2019