

# Farid Jamali-Sheini

## List of Publications by Year in descending order

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117  
papers

3,509  
citations

117571

34  
h-index

189801

50  
g-index

120  
all docs

120  
docs citations

120  
times ranked

3432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photovoltaic behavior of SnS solar cells under temperature variations. <i>Optik</i> , 2022, 254, 168635.	1.4	17
2	Visible-range and self-powered bilayer p-Si/n-Bi <sub>2</sub> S <sub>3</sub> heterojunction photodetector: The effect of Au buffer layer on the optoelectronics performance. <i>Journal of Alloys and Compounds</i> , 2022, 905, 164119.	2.8	15
3	Nanoarchitectonics of SnSe with the impacts of ultrasonic powers and ultraviolet radiations on physical and optoelectronic properties. <i>Advanced Powder Technology</i> , 2022, 33, 103517.	2.0	3
4	Zn-doped Pb/Sn hybrid perovskite solar cells: Towards high photovoltaic performance. <i>Solar Energy</i> , 2022, 236, 63-74.	2.9	18
5	Optoelectronic properties of nanostructured Sb <sub>2</sub> Se <sub>3</sub> films synthesized by electrodeposition method: Effect of Zn concentrations. <i>Sensors and Actuators A: Physical</i> , 2022, 344, 113750.	2.0	4
6	Electro-sonical deposition of nanostructured Sb <sub>2</sub> Se <sub>3</sub> films for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157308.	2.8	15
7	Physical properties of Pb-doped CuS nanostructures for optoelectronic applications. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105501.	1.9	28
8	Nanostructured FeS <sub>2</sub> films: Influence of effective parameters on electrochemical deposition and characterization of physical properties. <i>Ceramics International</i> , 2021, 47, 21969-21969.	2.3	9
9	Correlation of Physical Features and the Photovoltaic Performance of P3HT:PCBM Solar Cells by Cu-Doped SnS Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15841-15852.	1.5	8
10	Symmetric strain- and temperature-dependent optoelectronics performance of TiO <sub>2</sub> /SnS/Ag solar cells. <i>Surfaces and Interfaces</i> , 2021, 25, 101223.	1.5	7
11	Sonochemical synthesis of Fe-doped Cu <sub>3</sub> Se <sub>2</sub> nanoparticles: Correlation of the strain and electrical properties for optoelectronics applications. <i>Advanced Powder Technology</i> , 2021, 32, 3412-3424.	2.0	11
12	Electrodeposition of nanostructured FeS <sub>2</sub> films: The effect of Sn concentrations on the optoelectronic performance. <i>Solid State Sciences</i> , 2021, 120, 106722.	1.5	6
13	Effect of ultrasonic irradiation time on the physical and optoelectronic properties of SnSe nanorods. <i>Surfaces and Interfaces</i> , 2021, 27, 101433.	1.5	2
14	The Ecotoxicity of Nanoparticles Co <sub>2</sub> O <sub>3</sub> and Fe <sub>2</sub> O <sub>3</sub> on <i>Daphnia magna</i> in Freshwater. <i>Journal of Water Chemistry and Technology</i> , 2021, 43, 509-516.	0.2	2
15	Tuning crystal phase and morphology of copper selenide nanostructures and their visible-light photocatalytic applications to degrade organic pollutants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124196.	2.3	20
16	Charge transportation mechanisms in TiO <sub>2</sub> /SnS/Ag solar cells. <i>Materials Research Bulletin</i> , 2020, 124, 110727.	2.7	24
17	Roles of Sn content in physical features and charge transportation mechanism of Pb-Sn binary perovskite solar cells. <i>Solar Energy</i> , 2020, 209, 590-601.	2.9	16
18	Mn-doped Cu <sub>3</sub> Se <sub>2</sub> nanosheets: Impact of physical characteristics on the photovoltaic performance. <i>Materials Research Bulletin</i> , 2020, 132, 111001.	2.7	8

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19	The Role of Ag/Al Electrodes in the Improvement of PEDOT:PSS/P3HT:PCBM Solar Cells Performance. IEEE Journal of Photovoltaics, 2020, 10, 1346-1352.	1.5	4
20	Optoelectronic properties of Zn-doped Cu <sub>3</sub> Se <sub>2</sub> nanosheets for photovoltaic application. Ceramics International, 2020, 46, 21978-21988.	2.3	11
21	Optoelectronic Properties of Mixed Sn/Pb Perovskite Solar Cells: The Study of Compressive Strain by Raman Modes. Journal of Physical Chemistry C, 2020, 124, 27136-27147.	1.5	21
22	Electrodeposition of In-doped SnSe nanoparticles films: Correlation of physical characteristics with solar cell performance. Solid State Sciences, 2020, 108, 106388.	1.5	16
23	Synthesis and characterization of type-II p(Cu <sub>x</sub> Se <sub>y</sub> )/n(g-C <sub>3</sub> N <sub>4</sub> ) heterojunction with enhanced visible-light photocatalytic performance for degradation of dye pollutants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 595, 124656.	2.3	39
24	Enhanced solar cell performance of P3HT:PCBM by SnS nanoparticles. Solar Energy, 2020, 199, 872-884.	2.9	20
25	Type-II p(SnSe)-n(g-C <sub>3</sub> N <sub>4</sub> ) heterostructure as a fast visible-light photocatalytic material: Boosted by an efficient interfacial charge transfer of p-n heterojunction. Journal of Alloys and Compounds, 2020, 829, 154436.	2.8	42
26	Improvement visible-light photocatalytic performance of single-crystalline SnSe <sub>1-x</sub> NPs toward degradation of organic pollutants. Solid State Sciences, 2019, 98, 106044.	1.5	13
27	The effect of pumice reinforcing particles on the corrosion-and wear-resistance of Ni/Co-pumice bilayer coatings by electroplating. Materials Research Express, 2019, 6, 126506.	0.8	1
28	Electroplating of Ni/Co-pumice multilayer nanocomposite coatings: Effect of current density on crystal texture transformations and corrosion behavior. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 1299-1310.	2.4	10
29	In-doped CuS nanostructures: Ultrasonic synthesis, physical properties, and enhanced photocatalytic behavior. Physica B: Condensed Matter, 2019, 570, 148-156.	1.3	45
30	Transient photocurrent response of Bi <sub>2</sub> S <sub>3</sub> /rGO nanocomposites synthesized by UV-assisted sonication method. Materials Research Express, 2019, 6, 086332.	0.8	15
31	Influence of synthesis parameters on the physical properties of Cu <sub>3</sub> Se <sub>2</sub> nanostructures using the sonochemical method. Ceramics International, 2019, 45, 16765-16775.	2.3	17
32	Optimization of absorber layer for band gap energy moderation of nanostructured SnS thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 11123-11135.	1.1	13
33	UV-assisted sonochemical synthesis and optoelectrical properties of Bi <sub>2</sub> S <sub>3</sub> /rGO nanocomposites. Ceramics International, 2019, 45, 13923-13933.	2.3	16
34	An efficient wide range photodetector fabricated using a bilayer Bi <sub>2</sub> S <sub>3</sub> /SnS heterojunction thin film. Semiconductor Science and Technology, 2019, 34, 045008.	1.0	29
35	Al-doped Ag <sub>2</sub> S nanostructures: Ultrasonic synthesis and physical properties. Ceramics International, 2019, 45, 6175-6182.	2.3	20
36	Ultrasound-assisted electrodeposition of Cu <sub>3</sub> Se <sub>2</sub> nanosheets and efficient solar cell performance. Journal of Alloys and Compounds, 2019, 780, 626-633.	2.8	26

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37	Microwave-assisted solvothermal synthesis and physical properties of Zn-doped MnS nanoparticles. <i>Solid State Sciences</i> , 2019, 93, 31-36.	1.5	20
38	Annealing temperature of nanostructured SnS on the role of the absorber layer. <i>Materials Science in Semiconductor Processing</i> , 2019, 90, 120-128.	1.9	35
39	Synthesis and physical properties of un- and Zn-doped Ag <sub>2</sub> S nanoparticles. <i>Advanced Powder Technology</i> , 2019, 30, 347-358.	2.0	21
40	Ultrasonic synthesis of In-doped SnS nanoparticles and their physical properties. <i>Solid State Sciences</i> , 2018, 79, 30-37.	1.5	47
41	Electrochemically synthesis and optoelectronic properties of Pb- and Zn-doped nanostructured SnSe films. <i>Applied Surface Science</i> , 2018, 443, 345-353.	3.1	42
42	Investigation of the optoelectronic behavior of Pb-doped CdO nanostructures. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 937-948.	1.6	5
43	Experimental and Theoretical Study of Enhanced Photocatalytic Activity of Mg-Doped ZnO NPs and ZnO/rGO Nanocomposites. <i>Chemistry - an Asian Journal</i> , 2018, 13, 194-203.	1.7	83
44	Sonochemical synthesis of Cu-doped CdO nanostructures and investigation of their physical properties. <i>Materials Science in Semiconductor Processing</i> , 2018, 74, 210-217.	1.9	26
45	Ultrasonic synthesis of Zn-doped CdO nanostructures and their optoelectronic properties. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 2255-2264.	1.7	13
46	Enhanced photocatalytic performance of ZnSe/PANI nanocomposites for degradation of organic and inorganic pollutants. <i>Applied Surface Science</i> , 2018, 462, 730-738.	3.1	70
47	Pb-doped Cu <sub>3</sub> Se <sub>2</sub> nanosheets: Electrochemical synthesis, structural features and optoelectronic properties. <i>Solar Energy</i> , 2018, 171, 508-518.	2.9	30
48	Microwave-assisted solvothermal synthesis and optoelectronic properties of $\hat{\Gamma}^3$ -MnS nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10976-10985.	1.1	21
49	Effect of thickness on the optoelectronic properties of electrodeposited nanostructured SnS films. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	1.5	18
50	Photovoltaic and photodetector performance of metal telluride nanowires grown by a simple CVD method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4475-4480.	1.1	8
51	CuO and Ag/CuO nanoparticles: Biosynthesis and antibacterial properties. <i>Materials Letters</i> , 2017, 196, 78-82.	1.3	62
52	Optical, electrical, and photovoltaic properties of PbS thin films by anionic and cationic dopants. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	30
53	The effect of tin sulfide quantum dots size on photocatalytic and photovoltaic performance. <i>Materials Chemistry and Physics</i> , 2017, 195, 187-194.	2.0	47
54	Broad Spectral Response of Se-Doped SnS Nanorods Synthesized through Electrodeposition. <i>ChemElectroChem</i> , 2017, 4, 1478-1486.	1.7	31

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55	Synthesis and transient photocurrent behavior of Zn-doped In <sub>2</sub> O <sub>3</sub> nanorods. <i>Sensors and Actuators A: Physical</i> , 2017, 265, 246-252.	2.0	14
56	Electrochemical deposition of nanostructured SnS <sub>1-x</sub> Te <sub>x</sub> thin films and their surface characterization. <i>Journal of Alloys and Compounds</i> , 2017, 694, 1338-1347.	2.8	28
57	Enhanced ethanol gas-sensing performance of Pb-doped In <sub>2</sub> O <sub>3</sub> nanostructures prepared by sonochemical method. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 778-791.	4.0	91
58	Effect of Al doping on the structural and optical properties of electrodeposited SnS thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1302-1308.	0.8	44
59	Synthesis of Te-doped ZnO nanowires with promising field emission behavior. <i>RSC Advances</i> , 2016, 6, 115335-115344.	1.7	5
60	SnS nanosheet films deposited via thermal evaporation: The effects of buffer layers on photovoltaic performance. <i>Solar Energy Materials and Solar Cells</i> , 2016, 154, 49-56.	3.0	67
61	Nanostructured SnS <sub>1-x</sub> Te <sub>x</sub> thin films: Effect of Te concentration and physical properties. <i>Journal of Alloys and Compounds</i> , 2016, 681, 595-605.	2.8	38
62	Effect of growth condition on structure and optical properties of hybrid Ag-CuO nanomaterials. <i>Advanced Powder Technology</i> , 2016, 27, 2196-2203.	2.0	12
63	Enhanced photovoltaic performance of tin sulfide nanoparticles by indium doping. <i>MRS Communications</i> , 2016, 6, 421-428.	0.8	32
64	Excellent photocatalytic performance under visible-light irradiation of ZnS/rGO nanocomposites synthesized by a green method. <i>Frontiers of Materials Science</i> , 2016, 10, 385-393.	1.1	31
65	Electrochemical synthesis and physical properties of Sn-doped CdO nanostructures. <i>Superlattices and Microstructures</i> , 2016, 100, 988-996.	1.4	26
66	Excellent photocatalytic performance of Zn(1-x)Mg <sub>x</sub> O/rGO nanocomposites under natural sunlight irradiation and their photovoltaic and UV detector applications. <i>Materials and Design</i> , 2016, 107, 47-55.	3.3	62
67	Effect of annealing temperature and graphene concentrations on photovoltaic and NIR-detector applications of PbS/rGO nanocomposites. <i>Ceramics International</i> , 2016, 42, 15209-15216.	2.3	31
68	A simple method to fabricate an NIR detector by PbTe nanowires in a large scale. <i>Materials Research Bulletin</i> , 2016, 77, 131-137.	2.7	14
69	XPS studies and photocurrent applications of alkali-metals-doped ZnO nanoparticles under visible illumination conditions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 79, 113-118.	1.3	90
70	Synthesis and characterization of Pb-doped ZnO nanoparticles and their photocatalytic applications. <i>Materials Research Innovations</i> , 2016, 20, 121-127.	1.0	24
71	Photocurrent applications of Zn(1-x)Cd <sub>x</sub> O/rGO nanocomposites. <i>Ceramics International</i> , 2016, 42, 7455-7461.	2.3	30
72	Influence of growth conditions on the electrochemical synthesis of SnS thin films and their optical properties. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 348-357.	2.4	28

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73	Examining the effect of Zn dopant on physical properties of nanostructured SnS thin film by using electrodeposition. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 323-330.	1.5	25
74	Photocurrent application of Cd-doped ZnTe nanowires grown in a large scale by a CVD method. <i>Vacuum</i> , 2016, 123, 131-135.	1.6	14
75	Photocurrent application of Zn-doped CdS nanostructures grown by thermal evaporation method. <i>Ceramics International</i> , 2016, 42, 1891-1896.	2.3	54
76	A sensitive electrochemical nitrate sensor based on polypyrrole coated palladium nanoclusters. <i>Journal of Electroanalytical Chemistry</i> , 2015, 751, 30-36.	1.9	44
77	Enhanced visible-light photocatalytic activity of strontium-doped zinc oxide nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2015, 32, 152-159.	1.9	147
78	Highly efficient photo-degradation of methyl blue and band gap shift of SnS nanoparticles under different sonication frequencies. <i>Materials Science in Semiconductor Processing</i> , 2015, 32, 172-178.	1.9	92
79	Large-scale and facile fabrication of $\text{PbSe}$ nanostructures by selenization of a $\text{Pb}$ sheet. <i>Functional Materials Letters</i> , 2015, 08, 1550063.	0.7	14
80	Synthesis and characterization of $\text{Fe}_3\text{O}_4$ rose like and spherical/reduced graphene oxide nanosheet composites for lead (II) sensor. <i>Electrochimica Acta</i> , 2015, 169, 126-133.	2.6	32
81	Photocurrent Properties of Undoped and Pb-Doped SnS Nanostructures Grown Using Electrodeposition Method. <i>Journal of Electronic Materials</i> , 2015, 44, 4734-4739.	1.0	23
82	Influences of anionic and cationic dopants on the morphology and optical properties of PbS nanostructures. <i>Chinese Physics B</i> , 2014, 23, 108101.	0.7	15
83	Improved Synthesis of Reduced Graphene Oxide-Titanium Dioxide Composite with Highly Exposed {001} Facets and Its Photoelectrochemical Response. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-9.	1.4	19
84	Large-scale and facial fabrication of PbS nanorods by sulfuration of a Pb sheet. <i>Materials Science in Semiconductor Processing</i> , 2014, 21, 98-103.	1.9	13
85	Influence of chemical routes on optical and field emission properties of $\text{Au@ZnO}$ nanowire films. <i>Vacuum</i> , 2014, 101, 233-237.	1.6	12
86	Optical properties of group-I-doped ZnO nanowires. <i>Ceramics International</i> , 2014, 40, 4327-4332.	2.3	27
87	Facile synthesis of different morphologies of Te-doped ZnO nanostructures. <i>Ceramics International</i> , 2014, 40, 7737-7743.	2.3	35
88	Synthesis and characterization of single crystal PbO nanoparticles in a gelatin medium. <i>Ceramics International</i> , 2014, 40, 11699-11703.	2.3	36
89	Optical and electrical properties of p-type Ag-doped ZnO nanostructures. <i>Ceramics International</i> , 2014, 40, 7957-7963.	2.3	140
90	Synthesis and characterization of PbS mesostructures as an IR detector grown by hydrogen-assisted thermal evaporation. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 704-709.	1.9	20

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91	Electrodeposition of Cu/ZnO nanocomposites: Effect of growth conditions on morphologies and surface properties. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 507-514.	1.9	5
92	Effect of hydrogen gas on the growth process of PbS nanorods grown by a CVD method. <i>Current Applied Physics</i> , 2014, 14, 1031-1035.	1.1	16
93	Effect of annealing process on the growth and surface properties of Au/ZnO nanowire films grown by chemical routes. <i>Ceramics International</i> , 2013, 39, 7577-7581.	2.3	3
94	Influence of lead concentration on morphology and optical properties of Pb-doped ZnO nanowires. <i>Ceramics International</i> , 2013, 39, 9115-9119.	2.3	41
95	Sn/ZnO nanoneedles grown on Zn wire as a pointed field emitter and switching device. <i>Materials Letters</i> , 2013, 111, 181-184.	1.3	8
96	Growth and optical properties of ZnO/In <sub>2</sub> O <sub>3</sub> heterostructure nanowires. <i>Ceramics International</i> , 2013, 39, 5191-5196.	2.3	25
97	Growth, X-ray peak broadening studies, and optical properties of Mg-doped ZnO nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 771-777.	1.9	71
98	The effect of group-I elements on the structural and optical properties of ZnO nanoparticles. <i>Ceramics International</i> , 2013, 39, 1371-1377.	2.3	80
99	Electrochemical synthesis and surface characterization of hexagonal Cu/ZnO nano-funnel tube films. <i>Ceramics International</i> , 2013, 39, 3715-3720.	2.3	17
100	Synthesis of polypyrrole coated manganese nanowires and their application in hydrogen peroxide detection. <i>Materials Chemistry and Physics</i> , 2013, 141, 298-303.	2.0	14
101	Optical and electrical properties of p-type Li-doped ZnO nanowires. <i>Superlattices and Microstructures</i> , 2013, 61, 91-96.	1.4	46
102	Effect of chlorine ion concentration on morphology and optical properties of Cl-doped ZnO nanostructures. <i>Ceramics International</i> , 2012, 38, 5821-5825.	2.3	37
103	Surface characterization of Au/ZnO nanowire films. <i>Ceramics International</i> , 2012, 38, 6665-6670.	2.3	30
104	Effect of indium concentration on morphology and optical properties of In-doped ZnO nanostructures. <i>Ceramics International</i> , 2012, 38, 6295-6301.	2.3	53
105	A Comparative Study of the Properties of ZnO Nano/Microstructures Grown using Two Types of Thermal Evaporation Set-Up Conditions. <i>Chemical Vapor Deposition</i> , 2012, 18, 215-220.	1.4	48
106	Chemical solution deposition of ZnO nanostructure films: Morphology and substrate angle dependency. <i>Ceramics International</i> , 2012, 38, 3649-3657.	2.3	19
107	Synthesis of Cu/ZnO and Ca/ZnO nanoneedle arrays on zinc foil by low temperature oxidation route: Effect of buffer layers on growth, optical and field emission properties. <i>Applied Surface Science</i> , 2011, 257, 8366-8372.	3.1	26
108	Low temperature growth of aligned ZnO nanowires and their application as field emission cathodes. <i>Materials Chemistry and Physics</i> , 2010, 120, 691-696.	2.0	29

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109	Characterization and field emission properties of ZnMgO nanowires fabricated by thermal evaporation process. <i>Solid State Sciences</i> , 2010, 12, 1088-1093.	1.5	50
110	Electrochemical synthesis of Sn doped ZnO nanowires on zinc foil and their field emission studies. <i>Thin Solid Films</i> , 2010, 519, 184-189.	0.8	35
111	Electrochemical synthesis of Cu/ZnO nanocomposite films and their efficient field emission behaviour. <i>Applied Surface Science</i> , 2010, 256, 2110-2114.	3.1	45
112	High current density, low threshold field emission from functionalized carbon nanotube bucky paper. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	35
113	Observation of Photoconductivity in Sn-Doped ZnO Nanowires and Their Photoenhanced Field Emission Behavior. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3843-3849.	1.5	63
114	Influence of process variables on growth of ZnO nanowires by cathodic electrodeposition on zinc substrate. <i>Thin Solid Films</i> , 2009, 517, 6605-6611.	0.8	23
115	Field emission studies on electrochemically synthesized ZnO nanowires. <i>Ultramicroscopy</i> , 2009, 109, 418-422.	0.8	25
116	Field Emission Properties of Al-Doped ZnO Nanostructures. <i>Journal of Nano Research</i> , 2009, 5, 231-237.	0.8	4
117	Growth, Optical, and Field Emission Properties of Aligned CdS Nanowires. <i>Crystal Growth and Design</i> , 2009, 9, 4157-4162.	1.4	46