

# S Alfaify

## List of Publications by Year in descending order

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352  
papers

8,238  
citations

66250

44  
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145109

60  
g-index

355  
all docs

355  
docs citations

355  
times ranked

4530  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insight into Al doping effect on photodetector performance of CdS and CdS:Mg films prepared by self-controlled nebulizer spray technique. <i>Journal of Alloys and Compounds</i> , 2022, 892, 160801.	2.8	24
2	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> , 2022, 37, 1651-1664.	1.5	9
3	A remarkable effect of substrate temperature on novel Al/Y <sub>2</sub> O <sub>3</sub> /n-Si heterojunction diodes performance fabricated by facile jet nebulizer spray pyrolysis for optoelectronic applications. <i>Chinese Journal of Physics</i> , 2022, 75, 14-27.	2.0	2
4	Thermoelectric properties of different polymorphs of gallium phosphide; A first-principles study. <i>Ceramics International</i> , 2022, 48, 642-647.	2.3	17
5	Effect of organic capping on defect induced ferromagnetism in ZnO nanoparticles. <i>Physica B: Condensed Matter</i> , 2022, 624, 413379.	1.3	4
6	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> , 2022, 288, 132611.	4.2	49
7	Enhanced photocatalytic activities of facile auto-combustion synthesized ZnO nanoparticles for wastewater treatment: An impact of Ni doping. <i>Chemosphere</i> , 2022, 291, 132687.	4.2	36
8	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> , 2022, 138, 106260.	1.9	17
9	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> , 2022, 28, 101586.	1.5	8
10	A Facile Microwave Assisted Synthesis of La@PbS Nanoparticles and Their Characterizations for Optoelectronics. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 469-477.	1.9	1
11	Enhancement in optoelectronic properties of lanthanum co-doped CdO: Zn thin films for TCO applications. <i>Superlattices and Microstructures</i> , 2022, 162, 107097.	1.4	8
12	Enhancement of performance of Ga incorporated ZnO UV photodetectors prepared by simplified two step chemical solution process. <i>Sensors and Actuators A: Physical</i> , 2022, 333, 113217.	2.0	18
13	Enhanced dielectric and electrical properties of PbS nanostructures facily synthesized by low-cost chemical route: An effect of Ce doping concentrations. <i>Materials Chemistry and Physics</i> , 2022, 278, 125626.	2.0	20
14	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> , 2022, 33, 3849-3869.	1.1	13
15	Optical characteristics of ZnO films under different thickness: A MATLAB- based computer calculation for photovoltaic applications. <i>Physica B: Condensed Matter</i> , 2022, 631, 413614.	1.3	7
16	Structural, optical, photoluminescence, and EPR behaviour of novel Zn <sub>0.80</sub> Cd <sub>0.20</sub> thick films: An effect of different sintering temperatures. <i>Journal of Luminescence</i> , 2022, 245, 118769.	1.5	13
17	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> , 2022, 33, 103435.	2.0	10
18	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> , 2022, 124, 111769.	1.7	11

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19	A comprehensive study on structure, opto-nonlinear and photoluminescence properties of Co <sub>3</sub> O <sub>4</sub> nanostructured thin films: An effect of Gd doping concentrations. <i>Ceramics International</i> , 2022, 48, 14550-14559.	2.3	17
20	Concomitant structural and ferroelectric properties of Sr <sub>2</sub> Bi <sub>4</sub> Ti <sub>5</sub> O <sub>18</sub> ceramics sintered with (K <sub>0.41</sub> Na <sub>0.53</sub> Li <sub>0.06</sub> )(Nb <sub>0.89</sub> Sb <sub>0.06</sub> Ta <sub>0.05</sub> )O <sub>3</sub> perovskite. <i>Journal of Solid State Chemistry</i> , 2022, 309, 122959.	1.4	4
21	Rice Husk-Derived Mesoporous Silica Nanostructure for Supercapacitors Application: a Possible Approach for Recycling Bio-Waste into a Value-Added Product. <i>Silicon</i> , 2022, 14, 10129-10135.	1.8	10
22	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> , 2022, 33, 11753-11767.	1.1	5
23	Enhancement in room temperature ammonia sensing performance of the La substituted SnO <sub>2</sub> (La:SnO <sub>2</sub> ) thin films developed using spray pyrolysis technique. <i>Physica Scripta</i> , 2022, 97, 055808.	1.2	3
24	Effect of Gd doping on spray pyrolyzed NiO thin films for optoelectronic applications. <i>Physica B: Condensed Matter</i> , 2022, 635, 413786.	1.3	5
25	Spray pyrolysis developed Nd doped Co <sub>3</sub> O <sub>4</sub> nanostructured thin films and their structural, and opto-nonlinear properties for optoelectronics applications. <i>Optics and Laser Technology</i> , 2022, 150, 107959.	2.2	21
26	Investigations of the physical behavior of novel polymorphs of indium phosphide from a first-principles perspective. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	1
27	Improved linear and nonlinear optical properties of PbS thin films synthesized by spray pyrolysis technique for optoelectronics: An effect of Gd <sup>3+</sup> doping concentrations. <i>Physica B: Condensed Matter</i> , 2022, 641, 414099.	1.3	23
28	Noticeably enhanced photosensing properties of Fe-doped Bi <sub>2</sub> S <sub>3</sub> thin films developed by nebulizer spray pyrolysis technique for photosensor applications. <i>Sensors and Actuators A: Physical</i> , 2022, 345, 113759.	2.0	17
29	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> , 2021, 859, 157762.	2.8	21
30	First-principles investigations of electronic structures and optical spectra of wurtzite and sphalerite types of ZnO <sub>1-x</sub> S (x=0, 0.25, 0.50, 0.75 & 1) alloys. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105326.	1.9	23
31	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> , 2021, 31, 566-576.	1.9	10
32	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> , 2021, 11, 147-163.	5.3	34
33	Exploring the potential of lead-chalcogenide monolayers for room-temperature thermoelectric applications. <i>Ceramics International</i> , 2021, 47, 3380-3388.	2.3	18
34	First-principles investigations of ZnO monolayers derived from zinc-blende and 5-5 phases for advanced thermoelectric applications. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 149, 109780.	1.9	15
35	Investigations of thermoelectric properties of ZnO monolayers from the first-principles approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114444.	1.3	25
36	Optoelectronic and thermoelectric properties of double perovskite Rb <sub>2</sub> PtX <sub>6</sub> (X = Cl, Br) for energy harvesting: First-principles investigations. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109665.	1.9	46

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37	Computational investigation of electronic and optical properties of spinal sulfides Sc <sub>2</sub> XS <sub>4</sub> (X= Zn, Mg) Tj ETQq1 1 2021, 121, 105435.	0.784314 1.9	11
38	Novel rare earth yttrium doping effect on physical properties of PbS nanostructures: facile synthesis and characterization. Journal of Materials Science, 2021, 56, 4763-4781.	1.7	30
39	One-pot flash combustion synthesis of Fe@NiO nanocomposites for supercapacitor applications. Ceramics International, 2021, 47, 9024-9033.	2.3	19
40	Enhancement in photodetection properties of Ag/CdS/Ag devices through novel rare-earth metal Tb doping. Materials Letters, 2021, 285, 129174.	1.3	14
41	A noticeable consistent improvement in photocatalytic efficiency of hazardous textile dye through facile flash combustion synthesized Li-doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2021, 32, 3437-3450.	1.1	15
42	Facile fabrication and characterization of nanostructured Y: CdO thin films. Journal of Sol-Gel Science and Technology, 2021, 97, 697-705.	1.1	3
43	First-principles investigations of optoelectronic properties of ZnO $\left( \overline{110} \right)$ and ZnO(0001) monolayers. European Physical Journal Plus, 2021, 136, 1.	1.2	2
44	Structural, Optical and Dielectric Properties of Nd Doped NiO Thin Films Deposited with a Spray Pyrolysis Method. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 2691-2699.	1.9	14
45	Investigations of optoelectronic properties of novel ZnO monolayers: A first-principles study. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 265, 115043.	1.7	10
46	One-spot fabrication and in-vivo toxicity evaluation of core-shell magnetic nanoparticles. Materials Science and Engineering C, 2021, 122, 111898.	3.8	17
47	Enhancing the properties of CdO thin films by co-doping with Mn and Fe for photodetector applications. Sensors and Actuators A: Physical, 2021, 319, 112544.	2.0	19
48	Improved Photodetection Performance of Nanostructured CdS films Based Photodetectors Via Novel Er Doping. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3880-3893.	1.9	15
49	Seed supported solution growth and characterization of L-alanine single crystals for optoelectronics. Journal of Crystal Growth, 2021, 560-561, 126041.	0.7	3
50	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. Colloids and Interface Science Communications, 2021, 42, 100410.	2.0	34
51	Improved ammonia vapor sensing properties of Al-doped ZnO nanoparticles prepared by sol-gel process. Physica Scripta, 2021, 96, 085802.	1.2	7
52	Tailoring the structure-morphology-vibrational-optical-dielectric and electrical characteristics of Ce@NiO NPs produced by facile combustion route for optoelectronics. Materials Science in Semiconductor Processing, 2021, 126, 105647.	1.9	22
53	Dielectric and electrical properties of La@NiO SNPs for high-performance optoelectronic applications. Ceramics International, 2021, 47, 15611-15621.	2.3	29
54	Structural, linear and nonlinear optical properties of Zn@CdO nanostructured thin films: a quantitative comparison with DFT. Journal of Materials Science: Materials in Electronics, 2021, 32, 18304-18316.	1.1	6

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55	A comprehensive experimental investigation of La@CdS nanostructured thin films: Structural, opto-nonlinear and photodetection properties. <i>Surfaces and Interfaces</i> , 2021, 24, 101063.	1.5	23
56	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> , 2021, 265, 124458.	2.0	17
57	Development of morphology tuned SnS hierarchical structures for enhanced photosensitive photodiode fabrication. <i>Inorganic Chemistry Communication</i> , 2021, 129, 108623.	1.8	3
58	Thermoelectric properties of the hexagonal- and square-shaped monolayers of ZnO. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	2
59	Optimization of Mono-Crystalline Silicon Solar Cell Devices Using PC1D Simulation. <i>Energies</i> , 2021, 14, 4986.	1.6	15
60	Effect of Er doping on linear and nonlinear optical properties of NiO films. <i>Chinese Journal of Physics</i> , 2021, 72, 547-557.	2.0	14
61	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> , 2021, 241, 166406.	1.4	10
62	Investigation on novel Cu <sub>2</sub> O modified g-C <sub>3</sub> N <sub>4</sub> /ZnO heterostructures for efficient photocatalytic dye degradation performance under visible-light exposure. <i>Colloids and Interface Science Communications</i> , 2021, 44, 100480.	2.0	17
63	Enriched optoelectronic properties of cobalt-doped ZnO thin films for photodetector applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27060-27072.	1.1	12
64	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> , 2021, 271, 115268.	1.7	21
65	Influence of carrier gas pressure on the characteristics of nebulizer-sprayed Cu <sub>2</sub> ZnSnS <sub>4</sub> absorber thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25493-25506.	1.1	2
66	Surface-enhanced Raman spectroscopy studies of orderly arranged silica nanospheres-synthesis, characterization and dye detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 26596-26607.	1.1	1
67	A facile co-precipitation synthesis of novel WO <sub>3</sub> /NiWO <sub>4</sub> nanocomposite with improved photocatalytic activity. <i>Materials Science in Semiconductor Processing</i> , 2021, 133, 105970.	1.9	22
68	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> , 2021, 157, 110197.	1.9	4
69	Performance analysis of SnS thin films fabricated using thermal evaporation technique for photodetector applications. <i>Optik</i> , 2021, 244, 167460.	1.4	18
70	Basic deposition methods of thin films**. <i>Journal of Molecular Structure</i> , 2021, 1241, 130606.	1.8	9
71	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> , 2021, 132, 108838.	1.8	20
72	Facile fabrication of Ag/Y: CdS/Ag thin films-based photodetectors with enhanced photodetection performance. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 112890.	2.0	14

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73	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> , 2021, 629, 127472.	2.3	27
74	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> , 2021, 15, 2584-2600.	2.6	30
75	Polymorphism induced magnetic transitions in Ni(OH) <sub>2</sub> nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 539, 168364.	1.0	5
76	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> , 2021, 95, 43-49.	0.9	9
77	High sensitive samarium-doped ZnS thin films for photo-detector applications. <i>Optical Materials</i> , 2021, 122, 111649.	1.7	13
78	First-principles investigations of thermoelectric properties of novel polytypes of Indium phosphide. <i>Optik</i> , 2021, 248, 168099.	1.4	4
79	Comparative study of Pr-doped and undoped PbS nanostructures facily synthesized for optoelectronic applications. <i>Solid State Sciences</i> , 2021, 122, 106773.	1.5	11
80	Improved photocurrent properties of La doped CuO thin films coated by nebulizer spray pyrolysis method for photosensor applications. <i>Optical Materials</i> , 2021, 122, 111790.	1.7	11
81	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> , 2020, 13, 1490-1498.	2.3	9
82	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> , 2020, 94, 1527-1535.	0.9	4
83	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> , 2020, 46, 4652-4663.	2.3	86
84	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> , 2020, 301, 111749.	2.0	72
85	A comprehensive study of opto-electrical and nonlinear properties of Cu@CdS thin films for optoelectronics. <i>Chinese Journal of Physics</i> , 2020, 63, 51-62.	2.0	58
86	A facile synthesis of Bi@PbS nanosheets and their key physical properties analysis for optoelectronic technology. <i>Materials Science in Semiconductor Processing</i> , 2020, 107, 104807.	1.9	48
87	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> , 2020, 577, 411867.	1.3	1
88	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> , 2020, 204, 164172.	1.4	30
89	Facile Synthesis, Optical "Dielectric" Electrical Studies on Carbon-Coated ZnO: An Effect of Gelatin. <i>Journal of Electronic Materials</i> , 2020, 49, 2144-2150.	1.0	0
90	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> , 2020, 1205, 127681.	1.8	15

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91	Fabrication of a novel and low-cost disposable visual UVC sensors with short response time. <i>Materials Letters</i> , 2020, 263, 127219.	1.3	0
92	A remarkable enhancement in photocatalytic activity of facilely synthesized Terbium@Zinc oxide nanoparticles by flash combustion route for optoelectronic applications. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1811-1823.	1.6	52
93	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> , 2020, 587, 124340.	2.3	60
94	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> , 2020, 173, 109122.	1.6	22
95	Analysis of neodymium rare earth element doping in PbS films for opto-electronics applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1817-1827.	1.1	13
96	An impact of Cr-doping on physical properties of PbI <sub>2</sub> thin films facilely deposited by spin coating technique. <i>Superlattices and Microstructures</i> , 2020, 138, 106370.	1.4	20
97	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> , 2020, 580, 411916.	1.3	5
98	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> , 2020, 582, 411955.	1.3	19
99	An in-depth investigation of physical properties of Nd doped CdS thin films for optoelectronic applications. <i>Chinese Journal of Physics</i> , 2020, 67, 681-694.	2.0	16
100	Exploring optoelectronic properties of ZnO monolayers originated from NaCl- and GeP-like polymorphs: A first-principles study. <i>Results in Physics</i> , 2020, 19, 103367.	2.0	9
101	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> , 2020, 31, 20101-20112.	1.1	5
102	First-principles investigations of structural parameters, electronic structures and optical spectra of 5s- and BeO-type of ZnO <sub>1-x</sub> S <sub>x</sub> alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 262, 114697.	1.7	15
103	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> , 2020, 29, 116102.	0.7	4
104	Optoelectronic properties of PbSe monolayers from first-principles. <i>Applied Surface Science</i> , 2020, 525, 146521.	3.1	21
105	Elucidating the impact of PbI <sub>2</sub> on photophysical and electrical properties of poly(3-hexythiophene). <i>Materials Science in Semiconductor Processing</i> , 2020, 120, 105272.	1.9	13
106	A facile microwave synthesis of Cr-doped CdS QDs and investigation of their physical properties for optoelectronic applications. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3973-3985.	1.6	24
107	Study on the synergistic effect of terbium-doped SnO <sub>2</sub> thin film photocatalysts for dye degradation. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	15
108	Raman Spectroscopy Imaging of Exceptional Electronic Properties in Epitaxial Graphene Grown on SiC. <i>Nanomaterials</i> , 2020, 10, 2234.	1.9	10

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109	Investigation of samarium-doped PbS thin films fabricated using nebulizer spray technique for photosensing applications. <i>Superlattices and Microstructures</i> , 2020, 148, 106723.	1.4	22
110	Facile microwave synthesis of bismuth molybdate nanostructures and their characterization for optoelectronic applications. <i>Solid State Sciences</i> , 2020, 107, 106361.	1.5	6
111	Structural, morphological, vibrational, optical, and nonlinear characteristics of spray pyrolyzed CdS thin films: Effect of Gd doping content. <i>Materials Chemistry and Physics</i> , 2020, 255, 123615.	2.0	30
112	Enhancement in photodetection properties of PbI <sub>2</sub> with graphene oxide doping for visible-light photodetectors. <i>Sensors and Actuators A: Physical</i> , 2020, 314, 112223.	2.0	15
113	Enhancement in optoelectronic nature of facile spray fabricated Ce co-doped CdO:Zn films for TCO applications. <i>Optik</i> , 2020, 223, 165408.	1.4	7
114	Devising square- and hexagonal-shaped monolayers of ZnO for nanoscale electronic and optoelectronic applications. <i>Solar Energy</i> , 2020, 211, 920-927.	2.9	24
115	An impact of La doping content on key physical properties of PbS spherical nanoparticles facily synthesized via low temperature chemical route. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	21
116	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> , 2020, 170, 110688.	1.9	7
117	Effect of Cu <sup>2+</sup> doping on the structural, optical, and vapor-sensing properties of ZnO thin films prepared by SILAR method. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16548-16560.	1.1	15
118	Quantitative analysis of Ag-doped SnS thin films for solar cell applications. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	15
119	Improved optoelectronic properties of Terbium co-doped CdO:Zn thin films coated by nebulizer spray pyrolysis method. <i>Superlattices and Microstructures</i> , 2020, 147, 106685.	1.4	5
120	Enhanced room temperature ammonia gas sensing properties of Al-doped ZnO nanostructured thin films. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	13
121	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> , 2020, 395, 112465.	2.0	51
122	Corrigendum to "Kramers-Kronig calculations for linear and nonlinear optics of nanostructured methyl violet (CI-42535): New trend in laser power attenuation using dyes" [Phys. B: Phys. Condens. Matter Volume 552 (1 January 2019) Pages 52-70 (PHYSB-D-18-01772R1)]. <i>Physica B: Condensed Matter</i> , 2020, 589, 412218.	1.3	0
123	An in-depth study on physical properties of facily synthesized Dy@CdS NPs through microwave route for optoelectronic technology. <i>Materials Science in Semiconductor Processing</i> , 2020, 118, 105184.	1.9	34
124	Linear, third order nonlinear optical and photoluminescence properties of Cd <sub>0.99</sub> Zn <sub>0.09S</sub> /ZnO nanocomposite thin films for optoelectronics applications. <i>Surfaces and Interfaces</i> , 2020, 20, 100561.	1.5	4
125	Facily fabricated Sr@NiO/FTO films and their characterizations for opto-nonlinear applications. <i>Chinese Journal of Physics</i> , 2020, 66, 91-101.	2.0	5
126	Preparation and characterization of layer-diffusion processed InBi <sub>2</sub> Se <sub>4</sub> thin films for photovoltaics application. <i>Optik</i> , 2020, 220, 164935.	1.4	6

#	ARTICLE	IF	CITATIONS
127	Emission and opto-dielectric nonlinearity in 2D Cd <sup>2+</sup> /ZnO <sup>2-</sup> /Na nanostructures: an effect of Na doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12116-12126.	1.1	4
128	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> , 2020, 126, 1.	1.1	29
129	Corrigendum to "A significant enhancement in visible-light photodetection properties of chemical spray pyrolysis fabricated CdS thin films by novel Eu doping concentrations by Shkir et al." [Sens. Actuators A 301 (2020) 111749]. <i>Sensors and Actuators A: Physical</i> , 2020, 313, 112169.	2.0	0
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135	Comprehensive Study on Nebulizer-Spray-Pyrolyzed Eu-Doped PbS Thin Films for Optoelectronic Applications. <i>Journal of Electronic Materials</i> , 2020, 49, 5439-5448.	1.0	1
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141	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> , 2020, 100, 109696.	1.7	38
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144	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> , 2020, 118, 113955.	1.3	42

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154	In-depth analysis on Erbium co-doped CdO:Zn films deposited by nebulizer method for opto-electronic applications. <i>Journal of Molecular Structure</i> , 2020, 1212, 128148.	1.8	7
155	SILAR-coated Mg-doped ZnO thin films for ammonia vapor sensing applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10186-10195.	1.1	26
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162	A facile one pot flash combustion synthesis of ZnO nanoparticles and their characterizations for photocatalytic applications. <i>Journal of Molecular Structure</i> , 2019, 1197, 610-616.	1.8	51

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164	An investigation on structural, morphological, optical and third order nonlinear properties of facily spray pyrolysis fabricated In:CdS thin films. <i>Superlattices and Microstructures</i> , 2019, 133, 106202.	1.4	50
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218	Exploring single-layered SnSe honeycomb polymorphs for optoelectronic and photovoltaic applications. <i>Physical Review B</i> , 2018, 97, .	1.1	45
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241	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> , 2018, 74, 129-135.	1.9	65
242	Exploring thermoelectric materials for renewable energy applications: The case of highly mismatched alloys based on AlBi <sub>1-x</sub> Sb <sub>x</sub> and InBi <sub>1-x</sub> Sb <sub>x</sub> . <i>Intermetallics</i> , 2018, 93, 235-243.	1.8	41
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