

Zubair Ahmad

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148
papers

1,840
citations

23
h-index

32
g-index

161
ext. papers

2,376
ext. citations

3.4
avg, IF

5.39
L-index

#	Paper	IF	Citations
148	Organic Thin-Film Capacitive and Resistive Humidity Sensors: A Focus Review. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800969	4.6	73
147	Instability in CHNHPbI perovskite solar cells due to elemental migration and chemical composition changes. <i>Scientific Reports</i> , 2017 , 7, 15406	4.9	65
146	Extraction of electronic parameters of Schottky diode based on an organic semiconductor methyl-red. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 631-634	3	65
145	Humidity-dependent characteristics of methyl-red thin film-based Ag/methyl-red/Ag surface-type cell. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 41, 18-22	3	60
144	A humidity sensing organic-inorganic composite for environmental monitoring. <i>Sensors</i> , 2013 , 13, 3615-348		57
143	PLA-TiO ₂ nanocomposites: Thermal, morphological, structural, and humidity sensing properties. <i>Ceramics International</i> , 2018 , 44, 16507-16513	5.1	51
142	Influence of humidity conditions on the capacitive and resistive response of an Al/VOPc/Pt co-planar humidity sensor. <i>Measurement Science and Technology</i> , 2012 , 23, 014001	2	43
141	Sodium intercalation/de-intercalation mechanism in Na ₄ MnV(PO ₄) ₃ cathode materials. <i>Electrochimica Acta</i> , 2018 , 292, 98-106	6.7	40
140	Multifunctional self-healing polymeric nanocomposite coatings for corrosion inhibition of steel. <i>Surface and Coatings Technology</i> , 2019 , 372, 121-133	4.4	39
139	Humidity sensor based on electrospun MEH-PPV:PVP microstructured composite. <i>RSC Advances</i> , 2016 , 6, 35387-35393	3.7	36
138	Investigation of VOPcPhO as an acceptor material for bulk heterojunction solar cells. <i>Organic Electronics</i> , 2012 , 13, 2532-2537	3.5	33
137	Potential of 5,10,15,20-Tetrakis(3,5-di-tertbutylphenyl)porphyrinatocopper(II) for a multifunctional sensor. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 81-85	8.5	30
136	Influence of thermal annealing on a capacitive humidity sensor based on newly synthesized macroporous PBObzT ₂ . <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 146-153	8.5	30
135	A review on lithium recovery using electrochemical capturing systems. <i>Desalination</i> , 2021 , 500, 114883	10.3	27
134	A novel classification of prostate specific antigen (PSA) biosensors based on transducing elements. <i>Talanta</i> , 2017 , 168, 52-61	6.2	26
133	Sensing performance optimization by tuning surface morphology of organic (D-EA) dye based humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 231, 30-37	8.5	26
132	Characterization of vanadyl phthalocyanine based surface-type capacitive humidity sensors. <i>Journal of Semiconductors</i> , 2010 , 31, 114002	2.3	26

131	Improvement of humidity sensing properties of PVDF-TiO ₂ nanocomposite films using acetone etching. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 408-413	8.5	25
130	Synthesis and properties of polyelectrolyte multilayered microcapsules reinforced smart coatings. <i>Journal of Materials Science</i> , 2019 , 54, 12079-12094	4.3	24
129	Performance optimization of CH ₃ NH ₃ Pb(I _{1-x} Br _x) ₃ based perovskite solar cells by comparing different ETL materials through conduction band offset engineering. <i>Optical Materials</i> , 2020 , 105, 109897 ³	3.3	24
128	A MEHPPV/VOPcPhO composite based diode as a photodetector. <i>Sensors and Actuators A: Physical</i> , 2014 , 206, 138-143	3.9	24
127	Carbon nanotubes nanocomposite in humidity sensors. <i>Solid-State Electronics</i> , 2012 , 69, 18-21	1.7	24
126	Humidity dependent electrical properties of an organic material DMBHPET. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 61, 180-184	4.6	23
125	Electrical characteristics of poly(methylsilsesquioxane) thin films for non-volatile memory. <i>Solid State Communications</i> , 2011 , 151, 297-300	1.6	23
124	Development and Properties of Polymeric Nanocomposite Coatings. <i>Polymers</i> , 2019 , 11,	4.5	22
123	Effect of BaTiO ₃ on the sensing properties of PVDF composite-based capacitive humidity sensors. <i>Ceramics International</i> , 2020 , 46, 2949-2953	5.1	22
122	Employment of single-diode model to elucidate the variations in photovoltaic parameters under different electrical and thermal conditions. <i>PLoS ONE</i> , 2017 , 12, e0182925	3.7	21
121	Limits and possible solutions in quantum dot organic solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 1551-1564	16.2	20
120	MEH-PPV/Alq ₃ -based bulk heterojunction photodetector. <i>Chinese Physics B</i> , 2013 , 22, 100701	1.2	20
119	Bulk heterojunction photodiode: To detect the whole visible spectrum. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013 , 46, 2073-2076	4.6	20
118	Fabrication of polyaniline-graphene/polystyrene nanocomposites for flexible gas sensors.. <i>RSC Advances</i> , 2019 , 9, 12496-12506	3.7	19
117	Temperature-sensitive chemical cell based on Nickel (II) phthalocyanine-tetrasulfonic acid tetrasodium salt. <i>Sensors and Actuators A: Physical</i> , 2012 , 179, 146-150	3.9	19
116	Effect of annealing temperature on the performance of printable carbon electrodes for perovskite solar cells. <i>Organic Electronics</i> , 2019 , 65, 375-380	3.5	19
115	Optimization of ITO glass/TiO ₂ based DSSC photo-anodes through electrophoretic deposition and sintering techniques. <i>Ceramics International</i> , 2017 , 43, 10540-10545	5.1	18
114	Organic/inorganic hybrid nanocomposite for enhanced photo-sensing of PFO-DBT:MEH-PPV:PC71BM blend-based photodetector. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	18

113	Stability of organometal halide perovskite solar cells and role of HTMs: recent developments and future directions.. <i>RSC Advances</i> , 2018 , 8, 20952-20967	3.7	18
112	Compositional engineering of the pi-conjugated small molecular VOPcPhO : Alq3 complex to boost humidity sensing. <i>RSC Advances</i> , 2017 , 7, 19780-19786	3.7	17
111	Combined influence of carrier mobility and dielectric constant on the performance of organic bulk heterojunction solar cells. <i>AIP Advances</i> , 2014 , 4, 057133	1.5	17
110	PFO-DBT:MEH-PPV:PCBM ternary blend assisted platform as a photodetector. <i>Sensors</i> , 2015 , 15, 965-783.8	3.8	16
109	Novel pressure and displacement sensors based on carbon nanotubes. <i>Chinese Physics B</i> , 2015 , 24, 0188012	3.2	16
108	Electrochemical Impedance Spectroscopy Analysis of Hole Transporting Material Free Mesoporous and Planar Perovskite Solar Cells. <i>Nanomaterials</i> , 2020 , 10,	5.4	16
107	Analytical expression for the current-voltage characteristics of organic bulk heterojunction solar cells. <i>AIP Advances</i> , 2015 , 5, 027115	1.5	15
106	Morphological and structural properties of VoPcPhO:P3HT composite thin films. <i>Materials Letters</i> , 2016 , 164, 605-608	3.3	14
105	VOPcPhO based organic pressure sensor and displacement transducer. <i>Synthetic Metals</i> , 2014 , 191, 120-125	3.25	14
104	Photo-organic field effect transistor based on a metalloporphyrin. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 105112	3	14
103	Low-Toxic, Earth-Abundant Nanostructured Materials for Thermoelectric Applications. <i>Nanomaterials</i> , 2021 , 11,	5.4	14
102	Stability in 3D and 2D/3D hybrid perovskite solar cells studied by EFISHG and IS techniques under light and heat soaking. <i>Organic Electronics</i> , 2019 , 66, 7-12	3.5	14
101	Improvement in the photovoltaic properties of hybrid solar cells by incorporating a QD-composite in the hole transport layer. <i>RSC Advances</i> , 2016 , 6, 23048-23057	3.7	13
100	A solution-based temperature sensor using the organic compound CuTsPc. <i>Sensors</i> , 2014 , 14, 9878-88	3.8	13
99	Spectroscopic and microscopic studies of thermally treated Vanadyl 2,9,16,23-tetraphenoxy-29H,31H-phthalocyanine thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1815-1819	3	13
98	Electrical Characteristics of A1/CNT/NiPc/PEPC/Ag Surface-Type Cell. <i>Chinese Physics Letters</i> , 2010 , 27, 106102	1.8	13
97	Compositional engineering of VOPcPhO-TiO nano-composite to reduce the absolute threshold value of humidity sensors. <i>Talanta</i> , 2017 , 174, 279-284	6.2	12
96	One-dimensional facile growth of MAPbI perovskite micro-rods.. <i>RSC Advances</i> , 2019 , 9, 11589-11594	3.7	12

95	Surface-type nonvolatile electric memory elements based on organic-on-organic CuPc-H 2 Pc heterojunction. <i>Chinese Physics B</i> , 2015 , 24, 116102	1.2	12
94	Enhancement of electronic and charge transport properties of NiPc by potassium-tetrasulpho group. <i>Physica B: Condensed Matter</i> , 2013 , 413, 21-23	2.8	12
93	Humidity sensitive organic field effect transistor. <i>Journal of Semiconductors</i> , 2010 , 31, 054001	2.3	12
92	Modification of Optical Band Gap and Surface Morphology of NiTsPc Thin Films. <i>Chinese Physics Letters</i> , 2012 , 29, 126802	1.8	12
91	Facile preparation of N-S co-doped graphene quantum dots (GQDs) from graphite waste for efficient humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 328, 129058	8.5	12
90	Growth of MAPbBr ₃ perovskite crystals and its interfacial properties with Al and Ag contacts for perovskite solar cells. <i>Optical Materials</i> , 2017 , 73, 50-55	3.3	11
89	Capacitive type humidity sensor based on PANI decorated Cu-ZnS porous microspheres. <i>Talanta</i> , 2020 , 219, 121361	6.2	10
88	Effect of ambient temperature on the efficiency of the PCPDTBT: PC71BM BHJ solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	10
87	Binary blend based dye sensitized photo sensor using PCPDTBT and MEH-PPV composite as a light sensitizer. <i>Synthetic Metals</i> , 2015 , 210, 392-397	3.6	10
86	Structural, morphological and optical properties of PEDOT:PSS/QDs nano-composite films prepared by spin-casting. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 83, 64-68	3	10
85	Synthesis and performance evaluation of nanostructured NaFe Cr (SO) cathode materials in sodium ion batteries (SIBs).. <i>RSC Advances</i> , 2018 , 8, 32985-32991	3.7	10
84	VOPcPhO:P3HT composite micro-structures with nano-porous surface morphology. <i>Applied Surface Science</i> , 2017 , 399, 426-431	6.7	9
83	The Impact of Thermal Annealing to the Efficiency and Stability of Organic Solar Cells based on PCDTBT: PC71BM. <i>Procedia, Social and Behavioral Sciences</i> , 2015 , 195, 2135-2142		9
82	Assessing mobile ions contributions to admittance spectra and current-voltage characteristics of 3D and 2D/3D perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 215, 110670	6.4	9
81	Flexible organic photo-thermogalvanic cell for low power applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2442-2447	2.1	9
80	Fuzzy-Based Approach Using IoT Devices for Smart Home to Assist Blind People for Navigation. <i>Sensors</i> , 2020 , 20,	3.8	9
79	Enhancement of optical features and sensitivity of MEH-PPV/VOPcPhO photodetector using CdSe quantum dots. <i>Journal of Luminescence</i> , 2016 , 180, 209-213	3.8	9
78	Degradation analysis in mixed (MAPbI ₃ and MAPbBr ₃) perovskite solar cells under thermal stress. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 1354-1359	2.1	9

77	Planar capacitive type humidity sensor fabricated using PTB7-Th by facile solution processing approach. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	9
76	Dual donor bulk-heterojunction to realize a quick and more sensitive organic visible photodetector. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 11144-11150	2.1	8
75	Synthesis of In Situ Photoinduced Halloysite-Polypyrrole@Silver Nanocomposite for the Potential Application in Humidity Sensors. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
74	Study on the stability of the mixed (MAPbI ₃ and MAPbBr ₃) perovskite solar cells using dopant-free HTL. <i>Organic Electronics</i> , 2020 , 76, 105453	3.5	8
73	Effect of humidity on copper phthalocyanine films deposited at different gravity conditions. <i>Pigment and Resin Technology</i> , 2017 , 46, 64-70	1	7
72	Development of pressure-sensitive thermo-electric cell using graphene and n-Bi ₂ Te ₃ . <i>Emergent Materials</i> , 2019 , 2, 387-390	3.5	7
71	Electrical equivalent circuit (EEC) based impedance spectroscopy analysis of HTM free perovskite solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 871, 114294	4.1	7
70	Growth of PbBr ₂ microrods with unique structure and surface morphology. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 4672-4676	2.1	7
69	A comparative study on the performance of hybrid solar cells containing ZnSte QDs in hole transporting layer and photoactive layer. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	7
68	Consequence of aging at Au/HTM/perovskite interface in triple cation 3D and 2D/3D hybrid perovskite solar cells. <i>Scientific Reports</i> , 2021 , 11, 33	4.9	7
67	A way for studying the impact of PEDOT:PSS interface layer on carrier transport in PCDTBT:PC71BM bulk hetero junction solar cells by electric field induced optical second harmonic generation measurement. <i>Journal of Applied Physics</i> , 2015 , 117, 163101	2.5	6
66	A BHJ-thin-film/liquid-electrolyte based electrochemical-sensor for visible light-detection. <i>RSC Advances</i> , 2017 , 7, 35445-35450	3.7	6
65	Performance enhancement of NiTsPc based photo sensor using treated TiO ₂ NPs film. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	6
64	Investigation of charge transport in organic polymer donor/acceptor photovoltaic materials. <i>Journal of Modern Optics</i> , 2014 , 61, 1730-1734	1.1	6
63	Organic Semiconductors: Applications in Solar Photovoltaic and Sensor Devices. <i>Materials Science Forum</i> , 2013 , 737, 126-132	0.4	6
62	Synthesis and Performance of Large-Scale Cost-Effective Environment-Friendly Nanostructured Thermoelectric Materials. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
61	Flexible impedance and capacitive tensile load Sensor based on CNT composite. <i>Chinese Physics B</i> , 2016 , 25, 028801	1.2	6
60	Effect of microwave sintering on the crystal domain and electrical properties of TiO ₂ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	5

59	Dielectric properties of Mn doped Bismuth Barium Titanate based ceramic thin films prepared by PLD technique. <i>Ceramics International</i> , 2017 , 43, 8778-8783	5.1	5
58	Long-Term Stability Analysis of 3D and 2D/3D Hybrid Perovskite Solar Cells Using Electrochemical Impedance Spectroscopy. <i>Molecules</i> , 2020 , 25,	4.8	5
57	Metal halide-based photodetector using one-dimensional MAPbI ₃ micro rods. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 12109-12115	2.1	5
56	Programmable nonvolatile memory based on gold nanoparticles in poly-methyl-silsesquioxane sol-gel. <i>Microelectronic Engineering</i> , 2012 , 99, 62-66	2.5	5
55	CuPc based organic-inorganic hetero-junction with Au electrodes. <i>Journal of Semiconductors</i> , 2010 , 31, 074002	2.3	5
54	IV characteristics of vanadium-flavonoid complexes based Schottky diodes. <i>Physica B: Condensed Matter</i> , 2011 , 406, 3011-3017	2.8	5
53	Organic nanostructure sensing layer developed by AAO template for the application in humidity sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 2382-2388	2.1	5
52	Computational modelling of monolithically stacked perovskite/silicon tandem solar cells using monofacial and bifacial designs. <i>Optik</i> , 2020 , 206, 163427	2.5	5
51	Elastic layered rubber-graphene composite fabricated by rubbing-in technology for the multi-functional sensors. <i>Heliyon</i> , 2019 , 5, e01187	3.6	4
50	Integrated Capacitive and Resistive Humidity Transduction via Surface Type Nickel Phthalocyanine Based Sensor. <i>International Journal of Electrochemical Science</i> , 2017 , 3012-3019	2.2	4
49	Surface engineering of the PLA films for fabricating dexterous humidity sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 8135-8141	2.1	4
48	Template-assisted growth of nanoporous VTTBNC films: Morphology and moisture sensitivity studies. <i>Materials Letters</i> , 2018 , 211, 195-198	3.3	4
47	Methodical review of the literature referred to the dye-sensitized solar cells: Bibliometrics analysis and road mapping. <i>Chinese Physics B</i> , 2019 , 28, 118401	1.2	4
46	Fabrication and Analysis of Polydimethylsiloxane (PDMS) Microchannels for Biomedical Application. <i>Processes</i> , 2021 , 9, 57	2.9	4
45	Humidity sensor based on poly(lactic acid)/PANI-ZnO composite electrospun fibers.. <i>RSC Advances</i> , 2021 , 11, 28735-28743	3.7	4
44	Poly(3-Hexylthiophene) (P3HT), Poly(Gamma-Benzyl-L-Glutamate) (PBLG) and Poly(Methyl Methacrylate) (PMMA) as Energy Harvesting Materials. <i>Springer Series on Polymer and Composite Materials</i> , 2017 , 95-118	0.9	3
43	Enhancement of electrical and optical performance of N719 by co-sensitization. <i>Optical Materials</i> , 2018 , 78, 201-206	3.3	3
42	Electro-sprayed PVA coating with texture-enriched surface morphology for augmented humidity sensing. <i>Progress in Organic Coatings</i> , 2018 , 117, 7-9	4.8	3

41	Study of Eonjugation effect of organic semiconductors on their optical parameters. <i>Optical Materials</i> , 2016 , 54, 94-97	3.3	3
40	The resistive and capacitive Cu ₂ O/BEPc composite-based displacement transducer. <i>Physica Scripta</i> , 2010 , 82, 065702	2.6	3
39	Fabrication and Investigation of the Charge/Discharge Characteristics of Zinc/PVA-KOH/Carbon Cell. <i>Acta Physica Polonica A</i> , 2009 , 116, 1021-1024	0.6	3
38	Enhancing the Electrical Properties of Vertical OFETs Using a P(VDF-TrFE) Dielectric Layer. <i>Journal of Electronic Materials</i> , 2020 , 49, 1362-1371	1.9	3
37	Investigation of the structural, optical and gas sensing properties of PANI coated Cu-ZnS microsphere composite.. <i>RSC Advances</i> , 2020 , 10, 26604-26612	3.7	3
36	Modeling and Piezoelectric Analysis of Nano Energy Harvesters. <i>Sensors</i> , 2020 , 20,	3.8	3
35	Numerical simulation analysis towards the effect of charge transport layers electrical properties on cesium based ternary cation perovskite solar cells performance. <i>Solar Energy</i> , 2021 , 225, 842-850	6.8	3
34	Optimum sintering method and temperature for cold compact Bismuth Telluride pellets for thermoelectric applications. <i>Journal of Alloys and Compounds</i> , 2021 , 877, 160256	5.7	3
33	Optical sensors based on the NiPc/CoPc composite films deposited by drop casting and under the action of centrifugal force. <i>Chinese Physics B</i> , 2017 , 26, 060704	1.2	2
32	Fabrication of flexible conductive films by rubbing in technology for application in elastic thermo-electric cells. <i>MethodsX</i> , 2019 , 6, 424-427	1.9	2
31	Detection of voltage pulse width effect on charge accumulation in PSCs using EFISHG measurement. <i>Results in Physics</i> , 2020 , 17, 103063	3.7	2
30	Flexible thermo-electrochemical cells using Iodolyte HI-30 for conversion of low-grade heat to electrical energy. <i>RSC Advances</i> , 2016 , 6, 71370-71374	3.7	2
29	Fabrication and characterization of the organic rectifying junctions by electrolysis. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	2
28	Thermal Annealing Effect on the Optical, Electrical and Morphological Properties of the PBTTT-C12:PC71BM Blend Films. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2015 , 137,	2.3	2
27	Numerical modeling and performance optimization of carbon-based hole transport layer free perovskite solar cells. <i>Optical Materials</i> , 2022 , 125, 112075	3.3	2
26	Effect of illumination and applied potential on the electrochemical impedance spectra in triple cation (FA/MA/Cs) 3D and 2D/3D perovskite solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 902, 115800	4.1	2
25	Improvement of capacitive humidity sensors using tris(8-hydroxyquinoline) gallium (Gaq ₃) nanofibers as a dielectric layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 21702-21710	2.7	2
24	COVID-19 Inspired a STEM-Based Virtual Learning Model for Middle Schools A Case Study of Qatar. <i>Sustainability</i> , 2021 , 13, 2799	3.6	2

23	Integration of the inexpensive CuNWs based transparent counter electrode with dye sensitized photo sensors. <i>RSC Advances</i> , 2016 , 6, 53123-53129	3.7	2
22	Study of a ternary blend system for bulk heterojunction thin film solar cells. <i>Chinese Physics B</i> , 2016 , 25, 080701	1.2	2
21	Effect of pressure on the electrical properties of flexible NiPc thin films fabricated by rubbing-in technology. <i>Chinese Physics B</i> , 2021 , 30, 014703	1.2	2
20	A Distinctive Method of Online Interactive Learning in STEM Education. <i>Sustainability</i> , 2021 , 13, 13909	3.6	2
19	Review on two-terminal and four-terminal crystalline-silicon/perovskite tandem solar cells; progress, challenges, and future perspectives. <i>Energy Reports</i> , 2022 , 8, 5820-5851	4.6	2
18	Effect of sulfonated poly (ether ether ketone) on the sensitivity of polyvinylidene fluoride-based resistive humidity sensors. <i>Materials Today Communications</i> , 2020 , 25, 101601	2.5	1
17	Potential challenges and approaches to develop the large area efficient monolithic perovskite solar cells (mPSCs). <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 20320-20329	2.1	1
16	Colloidal distribution of the PCPDTBT and VOPcPhO in the organic amalgam thin films and their optical properties. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	1
15	Enhancement of thermoelectric properties of low-toxic and earth-abundant copper selenide thermoelectric material by microwave annealing. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164131	5.7	1
14	A Short Analysis on the Morphological Characterization of Colloidal Quantum Dots for Photovoltaic Applications. <i>Current Nanoscience</i> , 2020 , 16, 544-555	1.4	1
13	A STEM Model to Engage Students in Sustainable Science Education through Sports: A Case Study in Qatar. <i>Sustainability</i> , 2021 , 13, 3483	3.6	1
12	A two-stage solar collector using a non-tracking conical concentrator and a glass lens for PV-TEG hybrid system. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	1
11	MAPbI Microrods-Based Photo Resistor Switches: Fabrication and Electrical Characterization. <i>Materials</i> , 2021 , 14,	3.5	1
10	Exploiting zirconium nitride for an efficient heat-resistant absorber and emitter pair for solar thermophotovoltaic systems. <i>Optics Express</i> , 2021 , 29, 31537-31548	3.3	1
9	2D-MXene as an additive to improve the power conversion efficiency of monolithic perovskite solar cells. <i>Materials Letters</i> , 2021 , 309, 131353	3.3	0
8	Impact of moisture contents on the performance of organic bi-layer ITO/OD thermo-electric cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 9720-9724	2.1	0
7	Thermal and mechanical stability of microwave sintered cold compact bismuth telluride thermoelectric material. <i>Materials Today Communications</i> , 2022 , 31, 103345	2.5	0
6	Effect of the shapes of nanostructures on the light absorption in organic thin films. <i>Journal of Modern Optics</i> , 2014 , 61, 636-640	1.1	

- 5 Impedance hygrometer based on cellulose and CuPc. *Journal of Semiconductors*, **2010**, 31, 064011 2.3
- 4 Pedagogical Models to Implement Effective STEM Research Experience Programs in High School Students. *Education Sciences*, **2021**, 11, 743 2.2
- 3 Production and Characterization of Nanoparticle Dispersions of Organic Semiconductors for Potential Applications in Organic Electronics **2017**, 109-117
- 2 Optical Absorption Enhancement in Polymer BHJ thin Film Using Ag Nanostructures: A Simulation Study. *Current Nanoscience*, **2020**, 16, 556-567 1.4
- 1 Undergraduate Research Experience Models: A systematic review of the literature from 2011 to 2021. *International Journal of Educational Research*, **2022**, 114, 101996 2.1