

Mohammad Hafizuddin Hj Jumali

List of Publications by Year in descending order

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94
papers

1,121
citations

394421

19
h-index

477307

29
g-index

95
all docs

95
docs citations

95
times ranked

1421
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of recent plasmonic nanoparticles incorporated P3HT: PCBM organic thin film solar cells. <i>Organic Electronics</i> , 2016, 36, 12-28.	2.6	84
2	A Mini-Review: Can Graphene Be a Novel Material for Perovskite Solar Cell Applications?. <i>Nano-Micro Letters</i> , 2018, 10, 27.	27.0	65
3	Synthesis and comparative study on the structural and optical properties of ZnO doped with Ni and Ag nanopowders fabricated by sol gel technique. <i>Scientific Reports</i> , 2021, 11, 11948.	3.3	64
4	Automated room temperature optical absorbance CO sensor based on In-doped ZnO nanorod. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 140-152.	7.8	46
5	Highly photoactive Cu ₂ O nanowire film prepared with modified scalable synthesis method for enhanced photoelectrochemical performance. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 237-245.	6.2	37
6	Dimensional effect of ZnO nanorods on gas-sensing performance. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 435101.	2.8	35
7	A new method for the fabrication of a bilayer WO ₃ /Fe ₂ O ₃ photoelectrode for enhanced photoelectrochemical performance. <i>Materials Research Bulletin</i> , 2018, 98, 47-52.	5.2	34
8	Optoelectronic property enhancement of conjugated polymer in poly(9,9-di-n-octylfluorenyl-2,7-diyl)/titania nanocomposites. <i>Thin Solid Films</i> , 2012, 524, 257-262.	1.8	31
9	A Simple Approach Low-Temperature Solution Process for Preparation of Bismuth-Doped ZnO Nanorods and Its Application in Hybrid Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 771-780.	3.1	31
10	Silver nanowires as flexible transparent electrode: Role of PVP chain length. <i>Journal of Alloys and Compounds</i> , 2019, 803, 165-171.	5.5	31
11	One-step formation of TiO ₂ hollow spheres via a facile microwave-assisted process for photocatalytic activity. <i>Nanotechnology</i> , 2018, 29, 145707.	2.6	29
12	Modified microwave method for the synthesis of visible light-responsive TiO ₂ /MWCNTs nanocatalysts. <i>Nanoscale Research Letters</i> , 2013, 8, 346.	5.7	27
13	Microwave Assisted Hydrothermal Method for Porous Zinc Oxide Nanostructured-Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2667-2674.	0.9	26
14	Nylon-6/liquid natural rubber blends prepared via emulsion dispersion. <i>Journal of Polymer Research</i> , 2009, 16, 381-387.	2.4	25
15	Förster-type energy transfer mechanism in PF ₂ /6 to MEH-PPV conjugated polymers. <i>Journal of Luminescence</i> , 2012, 132, 386-390.	3.1	23
16	Enhanced Optoelectronic Properties of PFO/Fluorol 7GA Hybrid Light Emitting Diodes via Additions of TiO ₂ Nanoparticles. <i>Polymers</i> , 2016, 8, 334.	4.5	23
17	Enhancing the dielectric properties of (Ba _{0.85} Ca _{0.15})(Sn _x Zr _{0.10} ^x Ti _{0.90})O ₃ lead-free ceramics by stannum substitution. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20654-20664.	2.2	22
18	Long-range dipole-dipole energy transfer enhancement via addition of SiO ₂ /TiO ₂ nanocomposite in PFO/MEH-PPV hybrid thin films. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47845.	2.6	21

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19	Characterization of multilayer graphene prepared from short-time processed graphite oxide flake. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1282-1286.	2.2	19
20	Photophysical properties and energy transfer mechanism of PFO/Fluorol 7GA hybrid thin films. <i>Journal of Luminescence</i> , 2013, 142, 57-65.	3.1	19
21	Influence of TiO ₂ Nanoparticles on Enhancement of Optoelectronic Properties of PFO-Based Light Emitting Diode. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	2.7	19
22	Rapid synthesis of TiO ₂ /MWCNTs nanocatalyst with enhanced photocatalytic activity using modified microwave technique. <i>Materials Science in Semiconductor Processing</i> , 2014, 25, 207-210.	4.0	19
23	A novel facile preparation method of self-polarized Poly(vinylidene fluorides) nanofiber for high-performance piezoelectric nanogenerator. <i>Polymer</i> , 2020, 208, 122956.	3.8	18
24	Superconducting and normal state behaviors of (Tl,Bi)Sr ₂ ^x Ti _x Ca _{0.9} Y _{0.1} Cu ₂ O ₇ ceramics. <i>Ceramics International</i> , 2004, 30, 1591-1595.	4.8	17
25	Effect of Al thickness on the structural and ethanol vapor sensing performance of ZnO porous nanostructures prepared by microwave-assisted hydrothermal method. <i>Nanotechnology</i> , 2020, 31, 145502.	2.6	17
26	Inhibition of dark quenching by TiO ₂ nanoparticles content in novel PFO/Fluorol 7GA hybrid: A new role to improve OLED performance. <i>Chemical Physics Letters</i> , 2013, 570, 109-112.	2.6	15
27	Effect of sintering temperature on (Ba _{0.85} Ca _{0.15}) (Sn _x Zr _{0.1-x} Ti _{0.9})O ₃ for piezoelectric energy harvesting applications. <i>Ceramics International</i> , 2021, 47, 13107-13117.	4.8	15
28	Mechanistic study on highly crystalline (002) plane bounded ZnO nanofilms prepared via direct current magnetron sputtering. <i>Materials Letters</i> , 2015, 161, 83-88.	2.6	14
29	Exploration of 2D Ti ₃ C ₂ MXene for all solution processed piezoelectric nanogenerator applications. <i>Scientific Reports</i> , 2021, 11, 17432.	3.3	14
30	Effects of elemental substitution involving V and Cr on superconductivity of (Tl,Bi)Sr ₂ (Ca,Y)Cu ₂ O ₇ ceramics. <i>Ceramics International</i> , 2004, 30, 1585-1589.	4.8	13
31	Enhancement piezoelectricity in poly(vinylidene fluoride) by filler piezoceramics lead-free potassium sodium niobate (KNN). <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	13
32	Novel hydrothermal approach to functionalize self-oriented twin ZnO nanotube arrays. <i>Materials Letters</i> , 2016, 165, 75-78.	2.6	13
33	Improving Photophysical Properties of White Emitting Ternary Conjugated Polymer Blend Thin Film via Additions of TiO ₂ Nanoparticles. <i>Polymers</i> , 2020, 12, 2154.	4.5	13
34	Na ₃ Zr ₂ (SiO ₄) ₂ PO ₄ NASICON-type solid electrolyte: Influence of milling duration on microstructure and ionic conductivity mechanism. <i>Ceramics International</i> , 2022, 48, 22106-22113.	4.8	13
35	Efficient Charge Transfer Mechanism in Polyfluorene/ZnO Nanocomposite Thin Films. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-8.	2.7	12
36	Two-dimensional CdS intercalated ZnO nanorods: a concise study on interfacial band structure modification. <i>RSC Advances</i> , 2016, 6, 52395-52402.	3.6	12

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37	Improved performance of inverted type organic solar cell using copper iodide-doped P3HT:PCBM as active layer for low light application. <i>Materials Letters</i> , 2021, 283, 128827.	2.6	12
38	Critical role of defect states on visible luminescence from ZnS nanostructures doped with Au, Mn and Ga. <i>Materials Science in Semiconductor Processing</i> , 2020, 117, 105193.	4.0	11
39	Characterization of SnO ₂ Nanoparticles Prepared by Two Different Wet Chemistry Methods. <i>Advanced Materials Research</i> , 2011, 364, 322-326.	0.3	9
40	ZnO nanorod arrays pre-coated with DCJTb dye for inverted type hybrid solar cells incorporating P3HT donor. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 719-725.	2.2	8
41	Solution-dispersed copper iodide anode buffer layer gives P3HT:PCBM-based organic solar cells an efficiency boost. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2726-2731.	2.2	8
42	Transport critical current density of Bi _{1-x} Sr _x Ca _{1-x} Cu _{1-x} O/Ag superconductor tapes with addition of magnetic nanopowder ⁵⁷ Fe ₂ O ₃ . <i>Science and Technology of Advanced Materials</i> , 2005, 6, 525-528.	6.1	7
43	Dressing of Mwcnts with TiO ₂ Nanoparticles Using Modified Microwave Method. <i>Advanced Materials Research</i> , 2011, 364, 228-231.	0.3	7
44	Ethanol sensor based on ZnO nanostructures prepared via microwave oven. , 2013, , .		7
45	INFLUENCE OF THE SUBSTRATE ON THE CRYSTALLINE PHASE AND MORPHOLOGY OF POLY (VINYLIDENE) Tj ETQq _{1,1} 0.784314 rgBT _{1,1}		7
46	Simulation and Fabrication of Wagon-Wheel-Shaped Piezoelectric Transducer for Raindrop Energy Harvesting Application. <i>Journal of Electronic Materials</i> , 2017, 46, 1587-1597.	2.2	7
47	Numerical analysis with experimental verification to predict outdoor power conversion efficiency of inverted organic solar devices. <i>Renewable Energy</i> , 2019, 135, 589-596.	8.9	7
48	Carbon ¹³ -Carbon Nanotubes (CNTs) Composites from Green Pellets Contain CNTs and Self-adhesive Carbon Grains from Fibres of Oil Palm Empty Fruit Bunch. , 2010, , .		6
49	Influence of the spinning rate on the β -phase formation in poly(vinylidene fluoride) (PVDF) films. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	6
50	Superconductivity and enhancement of critical current density of Ta-substituted TlSr ₁₂ 12 with addition of nanosize MgO. <i>Materials Research Innovations</i> , 2009, 13, 364-367.	2.3	5
51	Inverted organic solar cells integrated with room temperature solution-processed bismuth sulfide electron selective layer. <i>Solar Energy</i> , 2017, 157, 1108-1113.	6.1	5
52	Controlling the Emission Spectrum of Binary Emitting Polymer Hybrids by a Systematic Doping Strategy via Förster Resonance Energy Transfer for White Emission. <i>Micromachines</i> , 2021, 12, 1371.	2.9	5
53	Effect of β -Chain Alignment Degree on the Performance of Piezoelectric Nanogenerator Based on Poly(Vinylidene Fluoride) Nanofiber. <i>Macromolecular Research</i> , 2022, 30, 172-182.	2.4	5
54	Fundamental Characterisation of Dredged Marine Sediments from Kuala Perlis Jetty by XRF, XRD and FTIR. <i>Advanced Materials Research</i> , 0, 620, 469-473.	0.3	4

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55	Solution-dispersed CuO nanoparticles as anode buffer layer in inverted type hybrid organic solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600418.	1.8	4
56	Tuning Photophysical Properties of Donor/Acceptor Hybrid Thin- Film via Addition of SiO ₂ /TiO ₂ Nanocomposites. <i>Polymers</i> , 2021, 13, 611.	4.5	4
57	Synthesis of high purity Tl1212 superconductor with ultrafine grains from coprecipitated Tl-free precursor route. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 843-846.	2.2	3
58	Effect of Annealing Temperatures on Nanostructure of NBT Ceramics Prepared via Sol Gel Method. <i>Advanced Materials Research</i> , 2011, 364, 412-416.	0.3	3
59	Effect of Polyaniline Doping on Structural and Vapor Sensing Properties of Tungsten Organometallic Thin Film. <i>Advanced Materials Research</i> , 0, 658, 237-241.	0.3	3
60	Effect of Lanthanum and Strontium Doped on PZT Properties Prepared via High Planetary Mill for Piezofan Application. <i>Advanced Materials Research</i> , 2015, 1087, 172-176.	0.3	3
61	Structure, humidity sensitivity and magnetic properties of Ce substituted magnesium ferrite. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
62	Synergy study on charge transport dynamics in hybrid organic solar cell: Photocurrent mapping and performance analysis under local spectrum. <i>Current Applied Physics</i> , 2018, 18, 1564-1570.	2.4	3
63	Photophysical and energy transfer mechanism studies of Poly (9,9-di-n-octylfluorenyl-2,7-diyl)/Fluorol 7GA/Poly [2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] ternary organic blend films. <i>Thin Solid Films</i> , 2019, 683, 90-96.	1.8	3
64	Förster energy transfer mechanism and color tunability in three binary conjugated polymer blends. <i>Optical Materials</i> , 2021, 116, 111085.	3.6	3
65	Effect of TiO ₂ nanoparticles on energy transfer mechanism in ternary nanocomposite conjugated polymer blend. <i>Optik</i> , 2021, 245, 167718.	2.9	3
66	Photophysical Properties and Energy Transfer Mechanism in PFO/TiO ₂ /MEH-PPV Nanocomposite Thin Films. <i>Sains Malaysiana</i> , 2020, 49, 2801-2809.	0.5	3
67	Effects of Cr, Ta and Pb Substitutions on Phase Formation and Superconductivity of Tl1212 Ceramics. <i>Journal of Applied Sciences</i> , 2008, 8, 1007-1013.	0.3	3
68	Nano-tin(IV) oxide addition effects on the transport and AC susceptibility parameters of Bi _{1.6} Pb _{0.4} Sr ₂ CaCu ₂ O ₈ superconductor. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 13947-13955.	2.2	3
69	Enhancement of Poly(9,9'-di-n-octylfluorenyl-2,7-diyl) Optoelectronic Properties in Novel Conjugated Polymer/Laser Dye Hybrid OLEDs. <i>Materials Science Forum</i> , 0, 756, 281-288.	0.3	2
70	Effect of duration on pore widening of one-step anodized aluminum oxide template. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	2
71	Structural and electrical evaluation of KNN ceramic. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	2
72	Ethanol sensor based on 1D and 2D ZnO nanostructures. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	2

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73	Rational design of ordered Bi/ZnO nanorod arrays: surface modification, optical energy band alteration and switchable wettability study. <i>Journal of Materials Research and Technology</i> , 2021, 15, 5213-5220.	5.8	2
74	Tetragonal tungsten bronze phase potential in increasing the piezoelectricity of sol-gel synthesized (K _{0.5} Na _{0.5}) _{1-x} Li _x NbO ₃ ceramics. <i>Ceramics International</i> , 2022, 48, 9324-9329.	4.8	2
75	Effect of sintering temperature on the dielectric, impedance and piezoelectric properties of Ba _{0.85} Ca _{0.15} Ti _{0.90} Sn _{0.09} Zr _{0.01} O ₃ ceramics. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	2.3	2
76	Synthesis of Monodisperse CdSe QDs Using Controlled Growth Temperatures. <i>Advanced Materials Research</i> , 0, 364, 485-488.	0.3	1
77	Structural and Luminescence Properties of Eu ³⁺ and Dy ³⁺ -Doped Magnesium Boro-Tellurite Ceramics. <i>Advanced Materials Research</i> , 2014, 895, 269-273.	0.3	1
78	Enhancement of optical properties of poly (9,9- ϵ -di-n-octylfluorenyl-2,7-diyl) in conjugated polymer/TiO ₂ nanocomposites. <i>Canadian Journal of Physics</i> , 2014, 92, 1021-1025.	1.1	1
79	Microstructural studies of nanocrystalline barium zirconium titanate (BZT) for piezoelectric applications. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
80	Solution-dispersed CuO nanoparticles anode buffer layer: Effect of ultrasonic agitation duration on photovoltaic performance. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
81	Effect of multiple deposition of NiO layer on the performance of inverted type organic solar cell based on ZnO/P3HT:PCBM. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
82	Effect of Solvent on Optical Properties and Surface Topography of Nanocomposite Conjugated Polymer Thin Film. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 056002.	1.8	1
83	Effect of La ₂ O ₃ Additions on Microstructure, Morphology and Pressure Sensing Behaviour of PZT Based Ceramics Sintered in Al ₂ O ₃ Environment. <i>Advanced Materials Research</i> , 0, 173, 96-101.	0.3	0
84	Enhancing the Sinterability of Chemically-Derived Tl ₁₂ Superconducting Powders Using Nano-Sized MgO as Sintering Aid. <i>Advanced Materials Research</i> , 0, 418-420, 914-917.	0.3	0
85	Effect of Annealing Temperatures on Formation of Na _{0.5} Bi _{0.5} Ti ₃ and (Na _{0.5} Bi _{0.5}) _{0.96} Ba _{0.04} Ti ₃ Ceramics Prepared via Sol Gel Method. <i>Advanced Materials Research</i> , 0, 501, 76-80.	0.3	0
86	High frequency initial permeability of nanocrystalline NiMnCu ferrites. , 2012, , .		0
87	Enhanced optophysical properties of poly[(9,9-di-n-octylfluorenyl-2,7-diyl)-alt-(benzo[2,1,3]thiadiazol-4,8-diyl)] via addition of TiO ₂ nanoparticles. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
88	Optimizing the performance of inverted type hybrid organic solar cell based on ZnO/P3HT with various polymer deposition parameters. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10442-10448.	2.2	0
89	Effects of CH ₃ NH ₃ Pb _(3-x) Cl _x Perovskite Layer on the Performance of Inverted Type Hybrid Organic Solar Cells Based on ZnO/P3HT. <i>Materials Science Forum</i> , 2016, 846, 292-297.	0.3	0
90	Effect of growth durations on the formation of ZnO nanorods prepared using continuous microwave heating technique. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0

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91	Controlled growth and alignment of palladium nanowires prepared by template-assisted electrodeposition. AIP Conference Proceedings, 2017, , .	0.4	0
92	Modification of Optophysical Properties of Poly[(9,9-Di-N-Octylfluorenyl-2,7-Diyl)-Alt-(Benzo[2,1,3]Thiadiazol-4,8-Diyl)] Thin Film via Additions of TiO ₂ Nanoparticles. Materials Science Forum, 2017, 888, 357-361.	0.3	0
93	Photoluminescence study of Poly (9,9-di-n-octylfluorenyl-2,7-diyl)/Flourol 7GA/Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] blends. AIP Conference Proceedings, 2017, , .	0.4	0
94	Functionalization of Multi-Walled Carbon Nanotubes Using Microwave Method. Materials Science Forum, 0, 1039, 237-244.	0.3	0