

Mohamad Hafiz Mamat

List of Publications by Year in descending order

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394
papers

2,960
citations

201674

27
h-index

276875

41
g-index

394
all docs

394
docs citations

394
times ranked

2801
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of doping concentrations on the aluminum doped zinc oxide thin films properties for ultraviolet photoconductive sensor applications. <i>Optical Materials</i> , 2010, 32, 696-699.	3.6	156
2	Fabrication of ultraviolet photoconductive sensor using a novel aluminium-doped zinc oxide nanorod-nanoflake network thin film prepared via ultrasonic-assisted sol-gel and immersion methods. <i>Sensors and Actuators A: Physical</i> , 2011, 171, 241-247.	4.1	112
3	Sonicated sol-gel preparation of nanoparticulate ZnO thin films with various deposition speeds: The highly preferred c-axis (002) orientation enhances the final properties. <i>Journal of Alloys and Compounds</i> , 2014, 582, 12-21.	5.5	94
4	Thermal annealing-induced formation of ZnO nanoparticles: Minimum strain and stress ameliorate preferred c-axis orientation and crystal-growth properties. <i>Journal of Alloys and Compounds</i> , 2014, 610, 575-588.	5.5	79
5	Fabrication of hierarchical Sn-doped ZnO nanorod arrays through sonicated sol-gel immersion for room temperature, resistive-type humidity sensor applications. <i>Ceramics International</i> , 2016, 42, 9785-9795.	4.8	68
6	Influence of various sol concentrations on stress/strain and properties of ZnO thin films synthesised by sol-gel technique. <i>Thin Solid Films</i> , 2013, 527, 102-109.	1.8	64
7	Novel synthesis of aligned Zinc oxide nanorods on a glass substrate by sonicated sol-gel immersion. <i>Materials Letters</i> , 2010, 64, 1211-1214.	2.6	62
8	Vertically aligned carbon nanotubes synthesized from waste chicken fat. <i>Materials Letters</i> , 2013, 101, 61-64.	2.6	60
9	Fabrication of an ultraviolet photoconductive sensor using novel nanostructured, nanohole-enhanced, aligned aluminium-doped zinc oxide nanorod arrays at low immersion times. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 609-622.	7.8	52
10	Analysis on different detection mechanisms involved in ZnO-based photodetector and photodiodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7100-7113.	2.2	47
11	High-Performance Dye-Sensitized Solar Cells Based on Morphology-Controllable Synthesis of ZnO-ZnS Heterostructure Nanocone Photoanodes. <i>PLoS ONE</i> , 2015, 10, e0123433.	2.5	45
12	Synthesis, structural and optical properties of mesostructured, X-doped NiO (x = Zn, Sn, Fe) nanoflake network films. <i>Materials Research Bulletin</i> , 2020, 127, 110860.	5.2	45
13	Rational design of aromatic surfactants for graphene/natural rubber latex nanocomposites with enhanced electrical conductivity. <i>Journal of Colloid and Interface Science</i> , 2018, 516, 34-47.	9.4	41
14	Heterogeneous SnO ₂ /ZnO nanoparticulate film: Facile synthesis and humidity sensing capability. <i>Materials Science in Semiconductor Processing</i> , 2018, 81, 127-138.	4.0	40
15	Quasi-aligned carbon nanotubes synthesised from waste engine oil. <i>Materials Letters</i> , 2015, 139, 220-223.	2.6	37
16	Dependence of photocatalysis on electron trapping in Ag-doped flowerlike rutile-phase TiO ₂ film by facile hydrothermal method. <i>Applied Surface Science</i> , 2020, 534, 147571.	6.1	37
17	Effects of Annealing Environments on the Solution-Grown, Aligned Aluminium-Doped Zinc Oxide Nanorod-Array-Based Ultraviolet Photoconductive Sensor. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-15.	2.7	36
18	Metamorphosis of strain/stress on optical band gap energy of ZAO thin films via manipulation of thermal annealing process. <i>Journal of Luminescence</i> , 2015, 160, 165-175.	3.1	36

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19	A novel fabrication of MEH-PPV/Al:ZnO nanorod arrays based ordered bulk heterojunction hybrid solar cells. <i>Applied Surface Science</i> , 2013, 275, 75-83.	6.1	35
20	Fabrication of nanocubic ZnO/SnO ₂ film-based humidity sensor with high sensitivity by ultrasonic-assisted solution growth method at different Zn:Sn precursor ratios. <i>Applied Nanoscience</i> (Switzerland), 2014, 4, 829-838.	3.1	35
21	Controllable Growth of Vertically Aligned Aluminum-Doped Zinc Oxide Nanorod Arrays by Sonicated Sol-Gel Immersion Method depending on Precursor Solution Volumes. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 06GH04.	1.5	33
22	Optical and electrical properties of aluminum doped zinc oxide thin films at various doping concentrations. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 1263-1267.	1.1	31
23	Performance of an Ultraviolet Photoconductive Sensor Using Well-Aligned Aluminium-Doped Zinc-Oxide Nanorod Arrays Annealed in an Air and Oxygen Environment. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 06GF05.	1.5	31
24	Controllable Growth of Vertically Aligned Aluminum-Doped Zinc Oxide Nanorod Arrays by Sonicated Sol-Gel Immersion Method depending on Precursor Solution Volumes. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 06GH04.	1.5	31
25	Controlled Growth of Zinc Oxide Nanorods by Aqueous-Solution Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2010, 40, 190-194.	0.6	29
26	Performance of an Ultraviolet Photoconductive Sensor Using Well-Aligned Aluminium-Doped Zinc-Oxide Nanorod Arrays Annealed in an Air and Oxygen Environment. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 06GF05.	1.5	29
27	Fabrication of thin, dense and small-diameter zinc oxide nanorod array-based ultraviolet photoconductive sensors with high sensitivity by catalyst-free radio frequency magnetron sputtering. <i>Materials Letters</i> , 2013, 93, 215-218.	2.6	29
28	Effect of oxygen flow rate on the ultraviolet sensing properties of zinc oxide nanocolumn arrays grown by radio frequency magnetron sputtering. <i>Ceramics International</i> , 2016, 42, 4107-4119.	4.8	29
29	Growth of titanium dioxide nanorod arrays through the aqueous chemical route under a novel and facile low-cost method. <i>Materials Letters</i> , 2016, 164, 294-298.	2.6	29
30	Enhanced humidity sensing performance using Sn-Doped ZnO nanorod Array/SnO ₂ nanowire heteronetwork fabricated via two-step solution immersion. <i>Materials Letters</i> , 2018, 210, 258-262.	2.6	29
31	Raman investigation of rutile-phased TiO ₂ nanorods/nanoflowers with various reaction times using one step hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 7920-7926.	2.2	28
32	Dye-sensitized solar Cell using pure anatase TiO ₂ annealed at different temperatures. <i>Optik</i> , 2017, 140, 1063-1068.	2.9	28
33	Heat treatment effects on the surface morphology and optical properties of ZnO nanostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 2286-2289.	0.8	25
34	Improving the photovoltaic performance of DSSCs using a combination of mixed-phase TiO ₂ nanostructure photoanode and agglomerated free reduced graphene oxide counter electrode assisted with hyperbranched surfactant. <i>Optik</i> , 2018, 158, 522-534.	2.9	25
35	Structural modification of ZnO nanorod array through Fe-doping: Ramification on UV and humidity sensing properties. <i>Nano Structures Nano Objects</i> , 2019, 18, 100262.	3.5	23
36	Effect of annealing on structural, optical, and electrical properties of nickel (Ni)/indium tin oxide (ITO) nanostructures prepared by RF magnetron sputtering. <i>Superlattices and Microstructures</i> , 2014, 70, 82-90.	3.1	22

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37	Thickness-controlled synthesis of vertically aligned c-axis oriented ZnO nanorod arrays: Effect of growth time via novel dual sonication sol-gel process. Japanese Journal of Applied Physics, 2016, 55, 01AE15.	1.5	22
38	Developing high-sensitivity UV sensors based on ZnO nanorods grown on TiO ₂ seed layer films using solution immersion method. Sensors and Actuators A: Physical, 2020, 302, 111827.	4.1	22
39	Enhanced photovoltaic performance using reduced graphene oxide assisted by triple-tail surfactant as an efficient and low-cost counter electrode for dye-sensitized solar cells. Optik, 2017, 139, 291-298.	2.9	21
40	Fabrication and characterization of rutile-phased titanium dioxide (TiO ₂) nanorods array with various reaction times using one step hydrothermal method. Optik, 2018, 154, 510-515.	2.9	20
41	Incorporation of Electrochemically Exfoliated Graphene Oxide and TiO ₂ into Polyvinylidene Fluoride-Based Nanofiltration Membrane for Dye Rejection. Water, Air, and Soil Pollution, 2019, 230, 1.	2.4	20
42	Growth Pattern of Zinc Oxide Nanorods on Gold Coated Silicon Surfaces. , 2009, , .		19
43	Electrical characteristics of sol-gel derived aluminum doped zinc oxide thin films at different annealing temperatures. , 2010, , .		19
44	Improvement sensitivity humidity sensor based on ZnO/SnO ₂ cubic structure. IOP Conference Series: Materials Science and Engineering, 2013, 46, 012005.	0.6	19
45	Electrical enhancement of radiation-vulcanized natural rubber latex added with reduced graphene oxide additives for supercapacitor electrodes. Journal of Materials Science, 2017, 52, 6611-6622.	3.7	19
46	Fabrication of vertically aligned carbon nanotubes-zinc oxide nanocomposites and their field electron emission enhancement. Materials and Design, 2016, 90, 185-195.	7.0	18
47	Synthesis, transfer and application of graphene as a transparent conductive film: a review. Bulletin of Materials Science, 2020, 43, 1.	1.7	18
48	Influence of Growth Time and Temperature on the Morphology of ZnO Nanorods via Hydrothermal. IOP Conference Series: Materials Science and Engineering, 2015, 99, 012016.	0.6	17
49	Reduced graphene oxide/platinum hybrid counter electrode assisted by custom-made triple-tail surfactant and zinc oxide/titanium dioxide bilayer nanocomposite photoanode for enhancement of DSSCs photovoltaic performance. Optik, 2018, 161, 70-83.	2.9	17
50	Reduced graphene oxide-multiwalled carbon nanotubes hybrid film with low Pt loading as counter electrode for improved photovoltaic performance of dye-sensitised solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 10723-10743.	2.2	17
51	Modulation of Sn concentration in ZnO nanorod array: intensification on the conductivity and humidity sensing properties. Journal of Materials Science: Materials in Electronics, 2018, 29, 12076-12088.	2.2	17
52	Zn-Doped SnO ₂ with 3D Cubic Structure for Humidity Sensor. Procedia Engineering, 2013, 56, 801-806.	1.2	16
53	Enhancing the performance of self-powered ultraviolet photosensor using rapid aqueous chemical-grown aluminum-doped titanium oxide nanorod arrays as electron transport layer. Thin Solid Films, 2018, 655, 1-12.	1.8	16
54	Photocatalytic degradation of methylene blue by flowerlike rutile-phase TiO ₂ film grown via hydrothermal method. Journal of Sol-Gel Science and Technology, 2022, 102, 637-648.	2.4	16

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55	Study on electrical properties of Zinc Oxide thin film. , 2008, , .		15
56	The effect of sputtering pressure on structural, optical and electrical properties of indium tin oxide nanocolumns prepared by radio frequency (RF) magnetron sputtering. Superlattices and Microstructures, 2014, 72, 140-147.	3.1	15
57	Preparation of conductive cellulose paper through electrochemical exfoliation of graphite: The role of anionic surfactant ionic liquids as exfoliating and stabilizing agents. Carbohydrate Polymers, 2018, 201, 48-59.	10.2	15
58	Chitosan-assisted hydrothermal synthesis of multiferroic BiFeO ₃ : Effects on structural, magnetic and optical properties. Results in Physics, 2019, 15, 102740.	4.1	15
59	Nanotubular Ta ₂ O ₅ as ultraviolet (UV) photodetector. Journal of Materials Science: Materials in Electronics, 2019, 30, 4953-4966.	2.2	15
60	Direct and seedless growth of Nickel Oxide nanosheet architectures on ITO using a novel solution immersion method. Materials Letters, 2019, 236, 460-464.	2.6	15
61	Fabrication and structural properties of flower-like TiO ₂ nanorod array films grown on glass substrate without FTO layer. Materials Letters, 2020, 273, 127902.	2.6	15
62	Heterojunction of SnO ₂ nanosheet/arrayed ZnO nanorods for humidity sensing. Materials Chemistry and Physics, 2022, 288, 126436.	4.0	15
63	Thermal stability and phase transformation of TiO ₂ nanowires at various temperatures. Microelectronic Engineering, 2013, 108, 134-137.	2.4	14
64	A study on different morphological structures of zinc oxide nanostructures for humidity sensing application. AIP Conference Proceedings, 2016, , .	0.4	14
65	Surfactants with aromatic headgroups for optimizing properties of graphene/natural rubber latex composites (NRL): Surfactants with aromatic amine polar heads. Journal of Colloid and Interface Science, 2019, 545, 184-194.	9.4	14
66	Influence of Drying Temperature on the Structural, Optical, and Electrical Properties of Layer-by-Layer ZnO Nanoparticles Seeded Catalyst. Journal of Nanomaterials, 2012, 2012, 1-7.	2.7	13
67	Effect of Iron and Cobalt Catalysts on The Growth of Carbon Nanotubes from Palm Oil Precursor. IOP Conference Series: Materials Science and Engineering, 2013, 46, 012014.	0.6	13
68	Scaled-up prototype of carbon nanotube production system utilizing waste cooking palm oil precursor and its nanocomposite application as supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2016, 27, 11599-11605.	2.2	13
69	Coupling heterostructure of thickness-controlled nickel oxide nanosheets layer and titanium dioxide nanorod arrays via immersion route for self-powered solid-state ultraviolet photosensor applications. Measurement: Journal of the International Measurement Confederation, 2020, 149, 106982.	5.0	13
70	Fabrication, structural, optical, electrical, and humidity sensing characteristics of hierarchical NiO nanosheet/nanoball-flower-like structure films. Journal of Materials Science: Materials in Electronics, 2020, 31, 11673-11687.	2.2	13
71	Photocatalytic performance improvement by utilizing GO_MWCNTs hybrid solution on sand/ZnO/TiO ₂ -based photocatalysts to degrade methylene blue dye. Environmental Science and Pollution Research, 2021, 28, 6966-6979.	5.3	13
72	Novel encapsulated ITO/arc-ZnO:TiO ₂ antireflective passivating layer for TCO conducting substrate prepared by simultaneous radio frequency-magnetron sputtering. Microelectronic Engineering, 2013, 108, 138-144.	2.4	12

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73	Synthesis and field electron emission properties of waste cooking palm oil-based carbon nanotubes coated on different zinc oxide nanostructures. <i>Journal of Alloys and Compounds</i> , 2016, 656, 368-377.	5.5	12
74	High Surface Area to Volume Ratio 3D Nanoporous Nb ₂ O ₅ for Enhanced Humidity Sensing. <i>Journal of Electronic Materials</i> , 2019, 48, 3805-3815.	2.2	12
75	Chemisorbed CO ₂ molecules on ZnO nanowires (100Ånm) surface leading towards enhanced piezoelectric voltage. <i>Vacuum</i> , 2020, 182, 109565.	3.5	12
76	Annealing temperature dependency of structural, optical and electrical characteristics of manganese-doped nickel oxide nanosheet array films for humidity sensing applications. <i>Nanomaterials and Nanotechnology</i> , 2021, 11, 184798042098278.	3.0	12
77	Schottky behavior of reduced graphene oxide at various operating temperatures. <i>Surfaces and Interfaces</i> , 2017, 6, 229-236.	3.0	11
78	Hierarchically assembled tin-doped zinc oxide nanorods using low-temperature immersion route for low temperature ethanol sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16292-16305.	2.2	11
79	Thickness-Dependent Characteristics of Aluminium-Doped Zinc Oxide Nanorod-Array-Based, Ultraviolet Photoconductive Sensors. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FF03.	1.5	11
80	Synthesis of TiO ₂ Nanowires via Hydrothermal Method. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FG08.	1.5	11
81	Particles Size and Conductivity Study of P-Type Copper (I) Iodide (CuI) Thin Film for Solid State Dye-Sensitized Solar Cells. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 17, 012009.	0.6	10
82	Zinc Oxide Nanorods Characteristics Prepared by Sol-Gel Immersion Method Immersed at Different Times. <i>Advanced Materials Research</i> , 2013, 667, 375-379.	0.3	10
83	Transparent antenna using aluminum doped zinc oxide for wireless application. , 2015, , .		10
84	Electrochemical exfoliation of graphite in nanofibrillated kenaf cellulose (NFC)/surfactant mixture for the development of conductive paper. <i>Carbohydrate Polymers</i> , 2020, 228, 115376.	10.2	10
85	Aluminium doping of titanium dioxide thin films using sol-gel method. <i>Materials Research Innovations</i> , 2011, 15, s137-s140.	2.3	9
86	Synthesis of TiO ₂ Nanowires via Hydrothermal Method. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FG08.	1.5	9
87	Nano-structured amorphous carbon films using novel palm oil precursor for solar cell applications. <i>Optik</i> , 2015, 126, 1610-1612.	2.9	9
88	Structural and optical properties of hydrothermally synthesized mesoporous Si/TiO ₂ nanowire composites. <i>Microelectronic Engineering</i> , 2015, 136, 31-35.	2.4	9
89	Nanocolumnar zinc oxide as a transparent conductive oxide film for a blue InGaN-based light emitting diode. <i>Ceramics International</i> , 2015, 41, 913-920.	4.8	9
90	Effect of thermal implying during ageing process of nanorods growth on the properties of zinc oxide nanorod arrays. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	9

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91	Effect of heat treatment to the rutile based dye sensitized solar cell. <i>Optik</i> , 2016, 127, 4076-4079.	2.9	9
92	Low-temperature-dependent growth of titanium dioxide nanorod arrays in an improved aqueous chemical growth method for photoelectrochemical ultraviolet sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1017-1033.	2.2	9
93	Effect of Surfactantsâ€™ Tail Number on the PVDF/GO/TiO ₂ -Based Nanofiltration Membrane for Dye Rejection and Antifouling Performance Improvement. <i>International Journal of Environmental Research</i> , 2021, 15, 149-161.	2.3	9
94	Piezoelectric energy harvesting based on ZnO: A review. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	9
95	Carbon nanotubes from waste cooking palm oil as adsorbent materials for the adsorption of heavy metal ions. <i>Environmental Science and Pollution Research</i> , 2021, 28, 65171-65187.	5.3	9
96	Thermal Degradation of Nanocomposited PMMA/TiO ₂ Nanocomposites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 46, 012045.	0.6	8
97	A review on hematite (Fe ₂ O ₃) focusing on nanostructures, synthesis methods and applications. , 2016, , .		8
98	Structural, optical, and electrical evolution of sol-gel-immersion grown nickel oxide nanosheet array films on aluminium doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9916-9930.	2.2	8
99	Titanium dioxide/agglomerated-free reduced graphene oxide hybrid photoanode film for dye-sensitized solar cells photovoltaic performance improvement. <i>Nano Structures Nano Objects</i> , 2019, 18, 100314.	3.5	8
100	Improved DSSC photovoltaic performance using reduced graphene oxide-carbon nanotube/platinum assisted with customised triple-tail surfactant as counter electrode and zinc oxide nanowire/titanium dioxide nanoparticle bilayer nanocomposite as photoanode. <i>Graphene Technology</i> , 2019, 4, 17-31.	1.9	8
101	Highly branched triple-chain surfactant-mediated electrochemical exfoliation of graphite to obtain graphene oxide: colloidal behaviour and application in water treatment. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12732-12744.	2.8	8
102	Structural phase instability, mixed-phase, and energy band gap change in BiFeO ₃ under lattice strain effect from first-principles investigation. <i>Ceramics International</i> , 2021, 47, 12592-12599.	4.8	8
103	ZnO Nanoparticles on Si, Si/Au, and Si/Au/ZnO Substrates by Mist-Atomisation. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-8.	2.7	7
104	Electrical and Structural Properties of ZnO/TiO ₂ Nanocomposite Thin Films by RF Magnetron Co-Sputtering. <i>Advanced Materials Research</i> , 0, 667, 206-212.	0.3	7
105	Effect of Annealing Temperature of Magnesium Doped Zinc Oxide Nanorods Growth on Silicon Substrate. <i>Journal of Nano Research</i> , 0, 26, 33-38.	0.8	7
106	Structural properties of Al-doped ZnO thin films deposited by Sol-Gel spin-coating method. , 2013, , .		7
107	Bonding and Mechanical Properties of PMMA/TiO ₂ Nanocomposites. <i>Advanced Materials Research</i> , 0, 832, 700-705.	0.3	7
108	Characterization of Copper (I) Iodide (CuI) Thin Film using TMED for Dye-Sensitized Solar Cells. <i>Advanced Materials Research</i> , 0, 667, 447-451.	0.3	7

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109	Structural and optical properties of N-doped ZnO nanorod arrays prepared using sol-gel immersion method. , 2016, , .		7
110	Preparation of a portable calorimetry kit and one-step spectrophotometric nanomolar level detection of l-Histidine in serum and urine samples using sebacic acid capped silver nanoparticles. Journal of Science: Advanced Materials and Devices, 2021, 6, 100-107.	3.1	7
111	Temperature dependant high output voltage generation via mechanical transducer by using surface modified (O ₂ , CO ₂ , NO ₂) ZnO nanowires. Microelectronic Engineering, 2021, 248, 111614.	2.4	7
112	Al Doped ZnO Thin Film Based Ultraviolet Photo-Conductive Sensor Prepared by Sol-Gel Spin-Coating Method. , 2009, , .		6
113	The Effect of Stabiliserâ€™s Molarity to the Growth of ZnO Nanorods. Defect and Diffusion Forum, 0, 312-315, 99-103.	0.4	6
114	Carbon Nanostructures Production from Waste Materials: A Review. Advanced Materials Research, 0, 1109, 50-54.	0.3	6
115	Amorphous Alâ€™Cu alloy nanowires decorated with carbon spheres synthesised from waste engine oil. Journal of Alloys and Compounds, 2015, 642, 111-116.	5.5	6
116	Structural, optical, and electrical properties of Ni-doped ZnO nanorod arrays prepared via sonicated sol-gel immersion method. AIP Conference Proceedings, 2018, , .	0.4	6
117	Hydrothermal synthesis of nanomoss Nb ₂ O ₅ films and their ultraviolet photodetection performance. Journal of Materials Science: Materials in Electronics, 2018, 29, 16765-16774.	2.2	6
118	The effect of annealing temperatures on zinc oxide thin films properties for electronic devices application. , 2008, , .		5
119	A Surface Morphology Study On The Effect Of Annealing Temperature To Nanostructured ZnO And Its Reaction Mechanism In Solution Method. , 2009, , .		5
120	A study on ohmic contact of different metal contact materials on nanostructured Titanium Dioxide (TiO ₂) Thin Film. , 2010, , .		5
121	Characteristics of Aligned Aluminum-Doped Zinc oxide nanorod arrays via a novel sonicated sol-gel immersion. , 2011, , .		5
122	Influence of Cubic Structured-ZnSnO ₃ Immersion Time to the Performance of Humidity Sensor. Nano Hybrids, 2012, 2, 1-11.	0.3	5
123	Aging Effects on Physical and Electrical Properties of Nano-Structured MgZnO Thin Films for Carbon Nanotube Applications. Journal of Nanoscience and Nanotechnology, 2012, 12, 8153-8157.	0.9	5
124	Characteristics of layer-by-layer ZnO nanoparticles thin films prepared with different deposition layer. , 2012, , .		5
125	Humidity sensor-based ZnO/SnO ₂ nanocomposite synthesised by sol-gel immersion method. International Journal of Materials Engineering Innovation, 2014, 5, 159.	0.5	5
126	Surfactant-free seed-mediated large-scale synthesis of mesoporous TiO ₂ nanowires. Ceramics International, 2015, 41, 4260-4266.	4.8	5

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127	Preparation of nickel oxide thin films at different annealing temperature by sol-gel spin coating method. AIP Conference Proceedings, 2016, , .	0.4	5
128	Atmospheric pressure plasma needle jet treated on aluminium thin film for semiconductor industries. Materials Today: Proceedings, 2019, 7, 715-720.	1.8	5
129	Solvents driven structural, morphological, optical and dielectric properties of lead free perovskite $\text{CH}_3\text{NH}_3\text{SnCl}_3$ for optoelectronic applications: experimental and DFT study. Materials Research Express, 2019, 6, 125921.	1.6	5
130	Characterization of Titanium Dioxide (TiO ₂) Nanotubes for Resistive-type Humidity Sensor. , 2020, , .		5
131	Adsorption effect of oxygen on ZnO Nanowires (100 nm) leading towards pronounced edge effects and voltage enhancement. Materials Research Express, 2020, 7, 095004.	1.6	5
132	Enhancement of Nanocomposite for Humidity Sensor Application. Engineering Materials, 2014, , 15-30.	0.6	5
133	Effects of Aluminium Doping and Electrode Distance on the Performance of Aligned Zinc Oxide Nanorod Array-Based Ultraviolet Photoconductive Sensors. Japanese Journal of Applied Physics, 2012, 51, 06FE04.	1.5	5
134	Post annealing temperature effect on photoluminescence spectroscopy of ZnO thin film. , 2010, , .		4
135	Electrically conductive zinc oxide (ZnO) nanostructures prepared by solgel spin-coating. , 2010, , .		4
136	Electrical properties of ZnO thin films prepared by sol-gel technique. , 2010, , .		4
137	Optical Properties of Nanostructured Zinc Oxides Deposited on Silicon Substrates. Defect and Diffusion Forum, 2011, 312-315, 1132-1136.	0.4	4
138	Effect of RF Power on the Formation and Morphology Evolution of ZnO Nanostructured Thin Films. Advanced Materials Research, 0, 576, 577-581.	0.3	4
139	ZnO Nanostructures “ Nanorods and Flower-Like on Si/Au Substrates by Solution-Immersion Method in Different pH of Precursor. Advanced Materials Research, 0, 667, 86-92.	0.3	4
140	Effect of Deposition Time on Properties of Nanostructured ZnO Thin Films Deposited by RF Magnetron Sputtering. Advanced Materials Research, 2013, 832, 460-465.	0.3	4
141	Deposition of Amorphous Carbon Thin Films via Bias Assisted Pyrolysis-CVD. Advanced Materials Research, 0, 667, 172-179.	0.3	4
142	Preparation of Aligned ZnO Nanorod Arrays on Sn-Doped ZnO Thin Films by Sonicated Sol-Gel Immersion Fabricated for Dye-Sensitized Solar Cell. Advances in Materials Science and Engineering, 2014, 2014, 1-8.	1.8	4
143	Effect of Nb-doped TiO ₂ on nanocomposited aligned ZnO nanorod/TiO ₂ :Nb for dye-sensitized solar cells. AIP Conference Proceedings, 2016, , .	0.4	4
144	Parametric study of waste chicken fat catalytic chemical vapour deposition for controlled synthesis of vertically aligned carbon nanotubes. Cogent Physics, 2016, 3, .	0.7	4

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145	The utilization of waste cooking palm oil as a green carbon source for the growth of multilayer graphene. <i>Journal of the Australian Ceramic Society</i> , 2021, 57, 347-358.	1.9	4
146	Fabrication and application of composite adsorbents made by one-pot electrochemical exfoliation of graphite in surfactant ionic liquid/nanocellulose mixtures. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19313-19328.	2.8	4
147	Influence of annealing temperature on the sensitivity of nickel oxide nanosheet films in humidity sensing applications. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2020, 18, 284.	0.8	4
148	Synthesis of ZnO nanorods on porous silicon substrate using sol-gel method. <i>Materials Research Innovations</i> , 2009, 13, 189-191.	2.3	3
149	Effects of cobalt doping concentration on the structural, electrical, and optical properties of titanium dioxide thin films. , 2011, , .		3
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151	Effect of Oxygen Flow Rate on the Properties of Nanocolumnar ZnO Thin Films Prepared Using Radio Frequency Magnetron Sputtering System for Ultraviolet Sensor Applications. <i>Advanced Materials Research</i> , 2011, 364, 1-6.	0.3	3
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