

Muhammad Miftahul Munir

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

1,605
citations

331670

21
h-index

361022

35
g-index

111
all docs

111
docs citations

111
times ranked

1626
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaling law on particle-to-fiber formation during electrospinning. <i>Polymer</i> , 2009, 50, 4935-4943.	3.8	139
2	Intermolecular Interactions and the Release Pattern of Electrospun Curcumin-Polyvinyl(pyrrolidone) Fiber. <i>Biological and Pharmaceutical Bulletin</i> , 2016, 39, 163-173.	1.4	129
3	Electrospun nanofiber from various source of expanded polystyrene (EPS) waste and their characterization as potential air filter media. <i>Waste Management</i> , 2020, 103, 76-86.	7.4	69
4	Optical and electrical properties of indium tin oxide nanofibers prepared by electrospinning. <i>Nanotechnology</i> , 2008, 19, 145603.	2.6	64
5	Mangosteen pericarp extract embedded in electrospun PVP nanofiber mats: physicochemical properties and release mechanism of α -mangostin. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 4927-4941.	6.7	55
6	Correlation between Structures and Antioxidant Activities of Polyvinylpyrrolidone/ <i>Garcinia mangostana</i> L. Extract Composite Nanofiber Mats Prepared Using Electrospinning. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-10.	2.7	54
7	Self-Assembly of Colloidal Nanoparticles Inside Charged Droplets during Spray-Drying in the Fabrication of Nanostructured Particles. <i>Langmuir</i> , 2013, 29, 13152-13161.	3.5	52
8	Polyvinyl Alcohol/Soursop Leaves Extract Composite Nanofibers Synthesized Using Electrospinning Technique and their Potential as Antibacterial Wound Dressing. <i>Procedia Engineering</i> , 2017, 170, 31-35.	1.2	52
9	Intense green and yellow emissions from electrospun BCNO phosphor nanofibers. <i>Journal of Materials Chemistry</i> , 2011, 21, 12629.	6.7	50
10	Encapsulation of β -carotene in poly(vinylpyrrolidone) (PVP) by Electrospinning Technique. <i>Procedia Engineering</i> , 2017, 170, 19-23.	1.2	43
11	Air filtration media from electrospun waste high-impact polystyrene fiber membrane. <i>Materials Research Express</i> , 2018, 5, 035049.	1.6	42
12	Controlled morphology of electrospun nanofibers from waste expanded polystyrene for aerosol filtration. <i>Nanotechnology</i> , 2019, 30, 425602.	2.6	38
13	The synthesis of nanofiber membranes from acrylonitrile butadiene styrene (ABS) waste using electrospinning for use as air filtration media. <i>RSC Advances</i> , 2019, 9, 30741-30751.	3.6	37
14	A constant-current electrospinning system for production of high quality nanofibers. <i>Review of Scientific Instruments</i> , 2008, 79, 093904.	1.3	36
15	Patterned indium tin oxide nanofiber films and their electrical and optical performance. <i>Nanotechnology</i> , 2008, 19, 375601.	2.6	36
16	Polyvinylpyrrolidone/cellulose acetate electrospun composite nanofibres loaded by glycerine and garlic extract with <i>in vitro</i> antibacterial activity and release behaviour test. <i>RSC Advances</i> , 2019, 9, 26351-26363.	3.6	34
17	Electrospun polyvinylpyrrolidone (PVP)/green tea extract composite nanofiber mats and their antioxidant activities. <i>Materials Research Express</i> , 2018, 5, 054001.	1.6	30
18	High performance electrospinning system for fabricating highly uniform polymer nanofibers. <i>Review of Scientific Instruments</i> , 2009, 80, 026106.	1.3	28

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19	Aerosol Chamber Characterization for Commercial Particulate Matter (PM) Sensor Evaluation. <i>Aerosol and Air Quality Research</i> , 2019, 19, 181-194.	2.1	28
20	Indium Tin Oxide Nanofiber Film Electrode for High Performance Dye Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 010213.	1.5	27
21	Synthesis of Polyvinylpyrrolidone (PVP)-Green Tea Extract Composite Nanostructures using Electrohydrodynamic Spraying Technique. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 202, 012043.	0.6	27
22	Electrospun Polyvinylpyrrolidone (PVP) Nanofiber Mats Loaded by <i>Garcinia mangostana</i> L. Extracts. <i>Materials Science Forum</i> , 0, 880, 11-14.	0.3	22
23	Photoluminescent and crystalline properties of $Y_3Al_5O_{12}:Ce^{3+}$ phosphor nanofibers prepared by electrospinning. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	20
24	Control of cone-jet geometry during electro spray by an electric current. <i>Advanced Powder Technology</i> , 2013, 24, 532-536.	4.1	18
25	Preparation of agglomeration-free spherical hollow silica particles using an electro spray method with colloidal templating. <i>Materials Letters</i> , 2013, 106, 432-435.	2.6	18
26	Rotary Forcespun Polyvinylpyrrolidone (PVP) Fibers as a Mangosteen Pericarp Extracts Carrier. <i>Procedia Engineering</i> , 2017, 170, 14-18.	1.2	17
27	A simple microcontroller-based current electrometer made from LOG12 and C8051F006 for measuring current in metal-oxide-semiconductor devices. <i>Measurement Science and Technology</i> , 2007, 18, 3019-3024.	2.6	15
28	Heating Profile Effect on Morphology, Crystallinity, and Photoluminescent Properties of $Y_2O_3:Eu^{3+}$ Phosphor Nanofibers Prepared Using an Electrospinning Method. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 6705.	1.5	15
29	Photoluminescent $ZrO_2:Eu^{3+}$ Nanofibers Prepared via Electrospinning. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 115003.	1.5	15
30	A superhydrophilic bilayer structure of a nylon 6 nanofiber/cellulose membrane and its characterization as potential water filtration media. <i>RSC Advances</i> , 2020, 10, 17205-17216.	3.6	14
31	Preparation of Polyacrylonitrile Nanofibers with Controlled Morphology Using a Constant-Current Electrospinning System for Filter Applications. <i>Materials Science Forum</i> , 0, 737, 159-165.	0.3	13
32	A simple solar simulator with highly stable controlled irradiance for solar panel characterization. <i>Measurement and Control</i> , 2019, 52, 159-168.	1.8	12
33	Synthesis of Styrofoam Fibers Using Rotary Forcespinning Technique. <i>Materials Science Forum</i> , 0, 827, 279-284.	0.3	11
34	Design and Development of a Series-configuration Mazzilli Zero Voltage Switching Flyback Converter as a High-voltage Power Supply for Needleless Electrospinning. <i>Procedia Engineering</i> , 2017, 170, 509-515.	1.2	11
35	Fabrication and structure optimization of expanded polystyrene (EPS) waste fiber for high-performance air filtration. <i>Powder Technology</i> , 2022, 402, 117357.	4.2	11
36	Simply Electrospun Gelatin/Cellulose Acetate Nanofibers and their Physico-Chemical Characteristics. <i>Materials Science Forum</i> , 0, 880, 95-98.	0.3	10

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37	Fabrication of Polyvinylpyrrolidone Fibers by Means of Rotary Forcespinning Method. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012044.	0.6	10
38	Synthesis of Fibers and Particles from Polyvinyl Chloride (PVC) Waste Using Electrospinning. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012014.	0.6	10
39	Development of a new personal air filter test system using a low-cost particulate matter (PM) sensor. Aerosol Science and Technology, 2020, 54, 203-216.	3.1	10
40	Formation of electrospayed composite nanoparticles from polyvinylpyrrolidone/mangosteen pericarp extract. Advanced Powder Technology, 2020, 31, 1811-1824.	4.1	10
41	Morphology-controlled synthesis of chromia-titania nanofibers via electrospinning followed by annealing. Materials Chemistry and Physics, 2009, 116, 169-174.	4.0	9
42	An Investigation on bilayer structures of electrospun polyacrylonitrile nanofibrous membrane and cellulose membrane used as filtration media for apple juice clarification. Materials Research Express, 2018, 5, 054003.	1.6	9
43	The Synthesis of Fiber Membranes from High-Impact Polystyrene (HIPS) Waste using Needleless Electrospinning as Air Filtration Media. Materials Today: Proceedings, 2019, 13, 154-159.	1.8	9
44	Dual needle corona discharge to generate stable bipolar ion for neutralizing electrospayed nanoparticles. Advanced Powder Technology, 2021, 32, 166-174.	4.1	9
45	Mass Production of Stacked Styrofoam Nanofibers Using a Multinozzle and Drum Collector Electrospinning System. Advanced Materials Research, 0, 896, 20-23.	0.3	8
46	Photocatalytic Activities of Electrospun TiO ₂ /Styrofoam Composite Nanofiber Membrane in Degradation of Waste Water. Materials Science Forum, 0, 827, 7-12.	0.3	8
47	Characterization of a water level measurement system developed using a commercial submersible pressure transducer. , 2016, , .		8
48	Structural, optical, and mechanical properties of cobalt copper oxide coatings synthesized from low concentrations of sol-gel process. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 3205-3213.	1.8	8
49	Needleless electrospinning system with wire spinneret: an alternative way to control morphology, size, and productivity of nanofibers. Nano Express, 2020, 1, 010046.	2.4	8
50	Morphology Controlled Electrospun Nanofibers for Humidity Sensor Application. , 2011, , .		7
51	Ion-induced nucleation rate measurement in SO ₂ /H ₂ O/N ₂ gas mixture by soft X-ray ionization at various pressures and temperatures. Advanced Powder Technology, 2013, 24, 143-149.	4.1	7
52	Electrospun Polyvinylpyrrolidone as a Carrier for Leaves Extracts of <i>Anredera cordifolia</i> (Ten.) Steenis. Materials Science Forum, 2015, 827, 91-94.	0.3	7
53	The Influence of Non-Ionic Surfactant on the Physical Characteristics of Curcumin-Loaded Nanofiber Manufactured by Electrospinning Method. Advanced Materials Research, 2015, 1112, 429-432.	0.3	7
54	Synthesis of High-Impact Polystyrene Fibers using Electrospinning. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012010.	0.6	7

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55	Digital pulse analyzer for simultaneous measurement of pulse height, pulse width, and interval time on an optical particle counter. Measurement Science and Technology, 2020, 31, 065901.	2.6	7
56	Electrospinning of Poly(vinyl alcohol)/Chitosan via Multi-Nozzle Spinneret and Drum Collector. Advanced Materials Research, 0, 896, 41-44.	0.3	6
57	Design and implementation of wireless sensor network on Ground movement Detection System. , 2015, , .		6
58	A Simple Spectrometer Using Various LEDs and a Photodiode Sensor for Photocatalytic Performance Evaluation. Applied Mechanics and Materials, 2015, 771, 17-20.	0.2	6
59	Optimization of Solvent System and Polymer Concentration for Synthesis of Polyvinyl Alcohol (PVA) Fiber Using Rotary Forcespinning Technique. Advanced Materials Research, 0, 1123, 20-23.	0.3	6
60	Development of a simple low-scale solar simulator and its light distribution. , 2016, , .		6
61	Single Phase Induction Motor Speed Regulation Using a PID Controller for Rotary Forcespinning Apparatus. Procedia Engineering, 2017, 170, 404-409.	1.2	6
62	The Study of Velocity Measurement Using Single Light Dependent Resistor (LDR) Sensor. , 2018, , .		6
63	Fabrication of Electrospun Nanofiber from Waste Expanded Polystyrene for Aerosol Filtration Application. Advanced Science Letters, 2017, 23, 5729-5732.	0.2	6
64	High-performance blow spun waste-acrylonitrile butadiene styrene (ABS) fibrous membrane for air filter. Journal of Materials Research and Technology, 2022, 18, 4564-4577.	5.8	6
65	An AT89S52 microcontrollerâ€based single board computer for teaching an instrumentation system course. Computer Applications in Engineering Education, 2007, 15, 166-173.	3.4	5
66	Poly(Vinyl Alcohol)/Chitosan Nanofibrous Membrane Containing <i>Anredera cordifolia</i> <i>(Ten.) Steenis</i>. Advanced Materials Research, 0, 1112, 453-457.	0.3	5
67	Study of soil moisture sensor for landslide early warning system: Experiment in laboratory scale. Journal of Physics: Conference Series, 2016, 739, 012034.	0.4	5
68	Potentiometer a simple light dependent resistor-based digital. , 2016, , .		5
69	The Design of Mini-Rotary Forcespinning System for Nanofiber Synthesis. Procedia Engineering, 2017, 170, 24-30.	1.2	5
70	Stability of granular tunnel. Granular Matter, 2018, 20, 1.	2.2	5
71	Turmeric extract-loaded polyvinylpyrrolidone spherical submicron particles produced using electrohydrodynamic atomization: their physico-chemical properties and antioxidant activity. Materials Research Express, 2019, 6, 085415.	1.6	5
72	The performance of an electrical ionizer as a bipolar aerosol charger for charging ultrafine particles. Aerosol Science and Technology, 2022, 56, 117-133.	3.1	5

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73	Generation of Submicron Bubbles using Venturi Tube Method. Journal of Physics: Conference Series, 2016, 739, 012058.	0.4	4
74	Fabrication and Characterization of Monodisperse Polystyrene Latex (PSL) with Various Diameters. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012015.	0.6	4
75	Experimental evaluation of the pressure and temperature dependence of ion-induced nucleation. Journal of Chemical Physics, 2010, 133, 124315.	3.0	3
76	Preparation and characterization of boron oxide-based red-emitting phosphors using Eu, Al and Ca additives. Materials Chemistry and Physics, 2012, 133, 392-397.	4.0	3
77	Web-Based Surface Level Measuring System Employing Ultrasonic Sensors and GSM/GPRS-Based Communication. Applied Mechanics and Materials, 0, 771, 92-95.	0.2	3
78	Development of a Wireless Sensor Network for Temperature and Humidity Monitoring. Applied Mechanics and Materials, 2015, 771, 42-45.	0.2	3
79	Fabrication of Poly(acrylonitrile)/PAN Nanofiber Using a Drum Collector Electrospinning System for Water Purification Application. Advanced Materials Research, 0, 1123, 281-284.	0.3	3
80	Designing of a High Voltage Power Supply for Electrospinning Apparatus Using a High Voltage Flyback Transformer (HVFBT). Applied Mechanics and Materials, 2015, 771, 145-148.	0.2	3
81	Air temperature regulation in a chamber for rotary forcespinning. , 2016, , .		3
82	Predicting jet radius in electrospinning by superpositioning exponential functions. Journal of Physics: Conference Series, 2016, 739, 012097.	0.4	3
83	Surface structural and solar absorptance features of nitrate-based copper-cobalt oxides composite coatings: Experimental studies and molecular dynamic simulation. Ceramics International, 2018, 44, 15274-15280.	4.8	3
84	Electrosprayed Polyvinylpyrrolidone (PVP) Submicron Particles Loaded by Green Tea Extracts. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012036.	0.6	3
85	The Synthesis and Characterization of Composite Electrospun Fibers of Polyvinylpyrrolidone and Shell Extract of Melinjo (Gnetum gnemon L). Materials Today: Proceedings, 2019, 13, 187-192.	1.8	3
86	A comprehensive characterization of a linear deformation sensor for applications in triaxial compression tests. , 2013, , .		2
87	Design and Implementation of Automatic Air Flow Rate Control System. Journal of Physics: Conference Series, 2016, 739, 012011.	0.4	2
88	Synthesis of $\text{LiFePO}_4/\text{Li}_2\text{SiO}_3/\text{reduced Graphene Oxide (rGO)}$ Composite via Hydrothermal Method. Journal of Physics: Conference Series, 2016, 739, 012087.	0.4	2
89	Development of a Simple Single-Axis Motion Table System for Testing Tilt Sensors. Procedia Engineering, 2017, 170, 378-383.	1.2	2
90	Applying Pulse Height Analysis (PHA) Technique on an Optical Particle Counter (OPC) using Commercial ADC Module. Materials Today: Proceedings, 2019, 13, 252-257.	1.8	2

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91	Synthesis and Characterization of Rotary Forcespun Polyvinylpyrrolidone Fibers Loaded by Garlic (<i>Allium sativum</i>) Extract. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012005.	0.6	2
92	A Computer-Based Air Flow Control System for Aerosol and Filtration Research. Applied Mechanics and Materials, 0, 771, 137-140.	0.2	1
93	Design of 3D scanner for surface contour mapping by ultrasonic sensor. AIP Conference Proceedings, 2015, , .	0.4	1
94	Measurement of Glucose in Blood Using a Simple Non Invasive Method. Materials Science Forum, 0, 827, 105-109.	0.3	1
95	Instrumentation system design and laboratory scale simulation of landslide disaster mitigation. Journal of Physics: Conference Series, 2016, 739, 012056.	0.4	1
96	A simple and low cost tilt examiner system development for a precise landslide early warning system. AIP Conference Proceedings, 2016, , .	0.4	1
97	Dynamics of coupled cylinders containing identical granules as potential new "granular braking" system. Powder Technology, 2018, 336, 506-515.	4.2	1
98	Fabrication and Characterization of Rotary Forcespun Styrofoam Fibers. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012039.	0.6	1
99	How human age affects the signature's curvature, density and amplitude to wavelength ratio and its potential application for countering document falsification. Australian Journal of Forensic Sciences, 2021, 53, 112-123.	1.2	1
100	Solvothermal synthesis of lithium iron phosphate from a high concentration precursor. , 2013, , .		0
101	High Performance Current-Voltage Characterization System for High Resistance Materials. Advanced Materials Research, 0, 896, 710-713.	0.3	0
102	Development of microcontroller based water flow measurement. AIP Conference Proceedings, 2015, , .	0.4	0
103	A Simple Accelerometer Calibrator. Journal of Physics: Conference Series, 2016, 739, 012099.	0.4	0
104	Rotary forcespun styrofoam fibers as a soilless growing medium. AIP Conference Proceedings, 2016, , .	0.4	0
105	Design of Deformation Monitoring System for Volcano Mitigation. Journal of Physics: Conference Series, 2016, 739, 012084.	0.4	0
106	Realization of Deflection-type Bridge instruments to determine soil moisture using Research-Based Learning. Journal of Physics: Conference Series, 2016, 739, 012035.	0.4	0
107	A simple landslide model at a laboratory scale. AIP Conference Proceedings, 2017, , .	0.4	0
108	Flexural Strength Evaluation of Dental Post Prototype Contain ZAS-PMMA Composite Fiber with Electrospinning Methods. Key Engineering Materials, 0, 829, 93-99.	0.4	0

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109	Optimizing singly-charged electrosprayed particle throughput of an electrospray aerosol generator utilizing a corona-based charger. <i>Aerosol Science and Technology</i> , 2022, 56, 281-294.	3.1	0
110	Pulse Height Analyzer with Coincidence Correction. <i>Journal of Physics: Conference Series</i> , 2022, 2243, 012037.	0.4	0