

# 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	The performance of an electrical ionizer as a bipolar aerosol charger for charging ultrafine particles. <i>Aerosol Science and Technology</i> , 2022, 56, 117-133.	3.1	5
2	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
3	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
4	High-performance blow spun waste-acrylonitrile butadiene styrene (ABS) fibrous membrane for air filter. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4564-4577.	5.8	6
5	Pulse Height Analyzer with Coincidence Correction. <i>Journal of Physics: Conference Series</i> , 2022, 2243, 012037.	0.4	0
6	Dual needle corona discharge to generate stable bipolar ion for neutralizing electrosprayed nanoparticles. <i>Advanced Powder Technology</i> , 2021, 32, 166-174.	4.1	9
7	How human age affects the signature's curvature, density and amplitude to wavelength ratio and its potential application for countering document falsification. <i>Australian Journal of Forensic Sciences</i> , 2021, 53, 112-123.	1.2	1
8	Development of a new personal air filter test system using a low-cost particulate matter (PM) sensor. <i>Aerosol Science and Technology</i> , 2020, 54, 203-216.	3.1	10
9	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
10	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
11	Formation of electrosprayed composite nanoparticles from polyvinylpyrrolidone/mangosteen pericarp extract. <i>Advanced Powder Technology</i> , 2020, 31, 1811-1824.	4.1	10
12	Needleless electrospinning system with wire spinneret: an alternative way to control morphology, size, and productivity of nanofibers. <i>Nano Express</i> , 2020, 1, 010046.	2.4	8
13	Digital pulse analyzer for simultaneous measurement of pulse height, pulse width, and interval time on an optical particle counter. <i>Measurement Science and Technology</i> , 2020, 31, 065901.	2.6	7
14	Controlled morphology of electrospun nanofibers from waste expanded polystyrene for aerosol filtration. <i>Nanotechnology</i> , 2019, 30, 425602.	2.6	38
15	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
16	The Synthesis of Fiber Membranes from High-Impact Polystyrene (HIPS) Waste using Needleless Electrospinning as Air Filtration Media. <i>Materials Today: Proceedings</i> , 2019, 13, 154-159.	1.8	9
17	Applying Pulse Height Analysis (PHA) Technique on an Optical Particle Counter (OPC) using Commercial ADC Module. <i>Materials Today: Proceedings</i> , 2019, 13, 252-257.	1.8	2
18	The Synthesis and Characterization of Composite Electrospun Fibers of Polyvinylpyrrolidone and Shell Extract of Melinjo ( <i>Gnetum gnemon</i> L.). <i>Materials Today: Proceedings</i> , 2019, 13, 187-192.	1.8	3

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19	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
20	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
21	Fabrication and Characterization of Rotary Forcespun Styrofoam Fibers. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012039.	0.6	1
22	A simple solar simulator with highly stable controlled irradiance for solar panel characterization. Measurement and Control, 2019, 52, 159-168.	1.8	12
23	The synthesis of nanofiber membranes from acrylonitrile butadiene styrene (ABS) waste using electrospinning for use as air filtration media. RSC Advances, 2019, 9, 30741-30751.	3.6	37
24	Aerosol Chamber Characterization for Commercial Particulate Matter (PM) Sensor Evaluation. Aerosol and Air Quality Research, 2019, 19, 181-194.	2.1	28
25	Air filtration media from electrospun waste high-impact polystyrene fiber membrane. Materials Research Express, 2018, 5, 035049.	1.6	42
26	Fabrication of Polyvinylpyrrolidone Fibers by Means of Rotary Forcespinning Method. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012044.	0.6	10
27	Fabrication and Characterization of Monodisperse Polystyrene Latex (PSL) with Various Diameters. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012015.	0.6	4
28	The Study of Velocity Measurement Using Single Light Dependent Resistor (LDR) Sensor. , 2018, , .		6
29	Stability of granular tunnel. Granular Matter, 2018, 20, 1.	2.2	5
30	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
31	Mangosteen pericarp extract embedded in electrospun PVP nanofiber mats: physicochemical properties and release mechanism of $\alpha$ -mangostin. International Journal of Nanomedicine, 2018, Volume 13, 4927-4941.	6.7	55
32	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
33	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
34	Electrospun polyvinylpyrrolidone (PVP)/green tea extract composite nanofiber mats and their antioxidant activities. Materials Research Express, 2018, 5, 054001.	1.6	30
35	Electrosprayed Polyvinylpyrrolidone (PVP) Submicron Particles Loaded by Green Tea Extracts. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012036.	0.6	3
36	Dynamics of coupled cylinders containing identical granules as potential new "granular braking" system. Powder Technology, 2018, 336, 506-515.	4.2	1

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37	The Design of Mini-Rotary Forcespinning System for Nanofiber Synthesis. <i>Procedia Engineering</i> , 2017, 170, 24-30.	1.2	5
38	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
39	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
40	Single Phase Induction Motor Speed Regulation Using a PID Controller for Rotary Forcespinning Apparatus. <i>Procedia Engineering</i> , 2017, 170, 404-409.	1.2	6
41	Encapsulation of $\beta$ -carotene in poly(vinylpyrrolidone) (PVP) by Electrospinning Technique. <i>Procedia Engineering</i> , 2017, 170, 19-23.	1.2	43
42	Rotary Forcespun Polyvinylpyrrolidone (PVP) Fibers as a Mangosteen Pericarp Extracts Carrier. <i>Procedia Engineering</i> , 2017, 170, 14-18.	1.2	17
43	Synthesis of High-Impact Polystyrene Fibers using Electrospinning. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 202, 012010.	0.6	7
44	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
45	Development of a Simple Single-Axis Motion Table System for Testing Tilt Sensors. <i>Procedia Engineering</i> , 2017, 170, 378-383.	1.2	2
46	A simple landslide model at a laboratory scale. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
47	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
48	Fabrication of Electrospun Nanofiber from Waste Expanded Polystyrene for Aerosol Filtration Application. <i>Advanced Science Letters</i> , 2017, 23, 5729-5732.	0.2	6
49	Instrumentation system design and laboratory scale simulation of landslide disaster mitigation. <i>Journal of Physics: Conference Series</i> , 2016, 739, 012056.	0.4	1
50	A Simple Accelerometer Calibrator. <i>Journal of Physics: Conference Series</i> , 2016, 739, 012099.	0.4	0
51	Design and Implementation of Automatic Air Flow Rate Control System. <i>Journal of Physics: Conference Series</i> , 2016, 739, 012011.	0.4	2
52	Rotary forcespun styrofoam fibers as a soilless growing medium. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
53	A simple and low cost tilt examiner system development for a precise landslide early warning system. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
54	Design of Deformation Monitoring System for Volcano Mitigation. <i>Journal of Physics: Conference Series</i> , 2016, 739, 012084.	0.4	0

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55	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
56	Synthesis of $\text{LiFePO}_4/\text{Li}_2\text{SiO}_3$ /reduced Graphene Oxide (rGO) Composite via Hydrothermal Method. Journal of Physics: Conference Series, 2016, 739, 012087.	0.4	2
57	Potentiometer a simple light dependent resistor-based digital. , 2016, , .		5
58	Air temperature regulation in a chamber for rotary forcespinning. , 2016, , .		3
59	Characterization of a water level measurement system developed using a commercial submersible pressure transducer. , 2016, , .		8
60	Development of a simple low-scale solar simulator and its light distribution. , 2016, , .		6
61	Generation of Submicron Bubbles using Venturi Tube Method. Journal of Physics: Conference Series, 2016, 739, 012058.	0.4	4
62	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
63	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
64	Intermolecular Interactions and the Release Pattern of Electrospun Curcumin-Polyvinylpyrrolidone Fiber. Biological and Pharmaceutical Bulletin, 2016, 39, 163-173.	1.4	129
65	Predicting jet radius in electrospinning by superpositioning exponential functions. Journal of Physics: Conference Series, 2016, 739, 012097.	0.4	3
66	Development of a Wireless Sensor Network for Temperature and Humidity Monitoring. Applied Mechanics and Materials, 2015, 771, 42-45.	0.2	3
67	Design of 3D scanner for surface contour mapping by ultrasonic sensor. AIP Conference Proceedings, 2015, , .	0.4	1
68	Development of microcontroller based water flow measurement. AIP Conference Proceedings, 2015, , .	0.4	0
69	Design and implementation of wireless sensor network on Ground movement Detection System. , 2015, , .		6
70	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
71	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
72	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

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73	The Influence of Non-Ionic Surfactant on the Physical Characteristics of Curcumin-Loaded Nanofiber Manufactured by Electrospinning Method. <i>Advanced Materials Research</i> , 2015, 1112, 429-432.	0.3	7
74	Control of cone-jet geometry during electrospay by an electric current. <i>Advanced Powder Technology</i> , 2013, 24, 532-536.	4.1	18
75	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
76	Preparation of agglomeration-free spherical hollow silica particles using an electrospay method with colloidal templating. <i>Materials Letters</i> , 2013, 106, 432-435.	2.6	18
77	Solvothermal synthesis of lithium iron phosphate from a high concentration precursor. , 2013, , .		0
78	A comprehensive characterization of a linear deformation sensor for applications in triaxial compression tests. , 2013, , .		2
79	Ion-induced nucleation rate measurement in SO <sub>2</sub> /H <sub>2</sub> O/N <sub>2</sub> gas mixture by soft X-ray ionization at various pressures and temperatures. <i>Advanced Powder Technology</i> , 2013, 24, 143-149.	4.1	7
80	Preparation and characterization of boron oxide-based red-emitting phosphors using Eu, Al and Ca additives. <i>Materials Chemistry and Physics</i> , 2012, 133, 392-397.	4.0	3
81	Intense green and yellow emissions from electrospun BCNO phosphor nanofibers. <i>Journal of Materials Chemistry</i> , 2011, 21, 12629.	6.7	50
82	Morphology Controlled Electrospun Nanofibers for Humidity Sensor Application. , 2011, , .		7
83	Photoluminescent ZrO <sub>2</sub> :Eu <sup>3+</sup> Nanofibers Prepared via Electrospinning. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 115003.	1.5	15
84	Experimental evaluation of the pressure and temperature dependence of ion-induced nucleation. <i>Journal of Chemical Physics</i> , 2010, 133, 124315.	3.0	3
85	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
86	Photoluminescent and crystalline properties of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> phosphor nanofibers prepared by electrospinning. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	20
87	Morphology-controlled synthesis of chromia-titania nanofibers via electrospinning followed by annealing. <i>Materials Chemistry and Physics</i> , 2009, 116, 169-174.	4.0	9
88	Scaling law on particle-to-fiber formation during electrospinning. <i>Polymer</i> , 2009, 50, 4935-4943.	3.8	139
89	High performance electrospinning system for fabricating highly uniform polymer nanofibers. <i>Review of Scientific Instruments</i> , 2009, 80, 026106.	1.3	28
90	A constant-current electrospinning system for production of high quality nanofibers. <i>Review of Scientific Instruments</i> , 2008, 79, 093904.	1.3	36

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91	Optical and electrical properties of indium tin oxide nanofibers prepared by electrospinning. Nanotechnology, 2008, 19, 145603.	2.6	64
92	Patterned indium tin oxide nanofiber films and their electrical and optical performance. Nanotechnology, 2008, 19, 375601.	2.6	36
93	A simple microcontroller-based current electrometer made from LOG112 and C8051F006 for measuring current in metal-oxide-semiconductor devices. Measurement Science and Technology, 2007, 18, 3019-3024.	2.6	15
94	Heating Profile Effect on Morphology, Crystallinity, and Photoluminescent Properties of $Y_2O_3:Eu^{3+}$ Phosphor Nanofibers Prepared Using an Electrospinning Method. Japanese Journal of Applied Physics, 2007, 46, 6705.	1.5	15
95	An AT89S52 microcontroller-based single board computer for teaching an instrumentation system course. Computer Applications in Engineering Education, 2007, 15, 166-173.	3.4	5
96	Preparation of Polyacrylonitrile Nanofibers with Controlled Morphology Using a Constant-Current Electrospinning System for Filter Applications. Materials Science Forum, 0, 737, 159-165.	0.3	13
97	High Performance Current-Voltage Characterization System for High Resistance Materials. Advanced Materials Research, 0, 896, 710-713.	0.3	0
98	Mass Production of Stacked Styrofoam Nanofibers Using a Multinozzle and Drum Collector Electrospinning System. Advanced Materials Research, 0, 896, 20-23.	0.3	8
99	Electrospinning of Poly(vinyl alcohol)/Chitosan via Multi-Nozzle Spinneret and Drum Collector. Advanced Materials Research, 0, 896, 41-44.	0.3	6
100	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
101	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
102	A Computer-Based Air Flow Control System for Aerosol and Filtration Research. Applied Mechanics and Materials, 0, 771, 137-140.	0.2	1
103	Poly(Vinyl Alcohol)/Chitosan Nanofibrous Membrane Containing <i>Anredera cordifolia</i> (Ten.) Steenis. Advanced Materials Research, 0, 1112, 453-457.	0.3	5
104	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
105	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
106	Synthesis of Styrofoam Fibers Using Rotary Forcespinning Technique. Materials Science Forum, 0, 827, 279-284.	0.3	11
107	Measurement of Glucose in Blood Using a Simple Non Invasive Method. Materials Science Forum, 0, 827, 105-109.	0.3	1
108	Electrospun Polyvinylpyrrolidone (PVP) Nanofiber Mats Loaded by <i>Garcinia mangostana</i> L. Extracts. Materials Science Forum, 0, 880, 11-14.	0.3	22

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109	Simply Electrospun Gelatin/Cellulose Acetate Nanofibers and their Physico-Chemical Characteristics. Materials Science Forum, 0, 880, 95-98.	0.3	10
110	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