

# Muhammad Miftahul Munir

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104  
papers

1,152  
citations

18  
h-index

30  
g-index

111  
ext. papers

1,358  
ext. citations

1.9  
avg, IF

4.6  
L-index

#	Paper	IF	Citations
104	Fabrication and structure optimization of expanded polystyrene (EPS) waste fiber for high-performance air filtration. <i>Powder Technology</i> , <b>2022</b> , 402, 117357	5.2	2
103	Optimizing singly-charged electrosprayed particle throughput of an electrospray aerosol generator utilizing a corona-based charger. <i>Aerosol Science and Technology</i> , <b>2022</b> , 56, 281-294	3.4	
102	High-performance blow spun waste-acrylonitrile butadiene styrene (ABS) fibrous membrane for air filter. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 18, 4564-4577	5.5	1
101	Dual needle corona discharge to generate stable bipolar ion for neutralizing electrosprayed nanoparticles. <i>Advanced Powder Technology</i> , <b>2021</b> , 32, 166-174	4.6	3
100	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> , <b>2021</b> , 53, 112-123	1.1	
99	A superhydrophilic bilayer structure of a nylon 6 nanofiber/cellulose membrane and its characterization as potential water filtration media.. <i>RSC Advances</i> , <b>2020</b> , 10, 17205-17216	3.7	9
98	Formation of electrosprayed composite nanoparticles from polyvinylpyrrolidone/mangosteen pericarp extract. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 1811-1824	4.6	3
97	Needleless electrospinning system with wire spinneret: an alternative way to control morphology, size, and productivity of nanofibers. <i>Nano Express</i> , <b>2020</b> , 1, 010046	2	1
96	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> , <b>2020</b> , 31, 065901	2	4
95	Electrospun nanofiber from various source of expanded polystyrene (EPS) waste and their characterization as potential air filter media. <i>Waste Management</i> , <b>2020</b> , 103, 76-86	8.6	33
94	Development of a new personal air filter test system using a low-cost particulate matter (PM) sensor. <i>Aerosol Science and Technology</i> , <b>2020</b> , 54, 203-216	3.4	8
93	Polyvinylpyrrolidone/cellulose acetate electrospun composite nanofibres loaded by glycerine and garlic extract with antibacterial activity and release behaviour test.. <i>RSC Advances</i> , <b>2019</b> , 9, 26351-26363	3.7	16
92	The Synthesis of Fiber Membranes from High-Impact Polystyrene (HIPS) Waste using Needleless Electrospinning as Air Filtration Media. <i>Materials Today: Proceedings</i> , <b>2019</b> , 13, 154-159	1.4	5
91	Applying Pulse Height Analysis (PHA) Technique on an Optical Particle Counter (OPC) using Commercial ADC Module. <i>Materials Today: Proceedings</i> , <b>2019</b> , 13, 252-257	1.4	2
90	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> , <b>2019</b> , 13, 187-192	1.4	1
89	Synthesis and Characterization of Rotary Forcespun Polyvinylpyrrolidone Fibers Loaded by Garlic ( <i>Allium sativum</i> ) Extract. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012005	0.4	2
88	Turmeric extract-loaded polyvinylpyrrolidone spherical submicron particles produced using electrohydrodynamic atomization: their physico-chemical properties and antioxidant activity. <i>Materials Research Express</i> , <b>2019</b> , 6, 085415	1.7	1

87	Fabrication and Characterization of Rotary Forcespun Styrofoam Fibers. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012039	0.4	0
86	A simple solar simulator with highly stable controlled irradiance for solar panel characterization. <i>Measurement and Control</i> , <b>2019</b> , 52, 159-168	1.5	8
85	Controlled morphology of electrospun nanofibers from waste expanded polystyrene for aerosol filtration. <i>Nanotechnology</i> , <b>2019</b> , 30, 425602	3.4	25
84	Aerosol Chamber Characterization for Commercial Particulate Matter (PM) Sensor Evaluation. <i>Aerosol and Air Quality Research</i> , <b>2019</b> , 19, 181-194	4.6	18
83	The synthesis of nanofiber membranes from acrylonitrile butadiene styrene (ABS) waste using electrospinning for use as air filtration media.. <i>RSC Advances</i> , <b>2019</b> , 9, 30741-30751	3.7	21
82	Flexural Strength Evaluation of Dental Post Prototype Contain ZAS-PMMA Composite Fiber with Electrospinning Methods. <i>Key Engineering Materials</i> , <b>2019</b> , 829, 93-99	0.4	
81	Air filtration media from electrospun waste high-impact polystyrene fiber membrane. <i>Materials Research Express</i> , <b>2018</b> , 5, 035049	1.7	30
80	Electrosprayed Polyvinylpyrrolidone (PVP) Submicron Particles Loaded by Green Tea Extracts. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012036	0.4	3
79	Dynamics of coupled cylinders containing identical granules as potential new [granular braking] system. <i>Powder Technology</i> , <b>2018</b> , 336, 506-515	5.2	1
78	Fabrication of Polyvinylpyrrolidone Fibers by Means of Rotary Forcespinning Method. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012044	0.4	7
77	Fabrication and Characterization of Monodisperse Polystyrene Latex (PSL) with Various Diameters. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012015	0.4	4
76	The Study of Velocity Measurement Using Single Light Dependent Resistor (LDR) Sensor <b>2018</b> ,		1
75	Stability of granular tunnel. <i>Granular Matter</i> , <b>2018</b> , 20, 1	2.6	4
74	Synthesis of Fibers and Particles from Polyvinyl Chloride (PVC) Waste Using Electrospinning. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012014	0.4	8
73	Mangosteen pericarp extract embedded in electrospun PVP nanofiber mats: physicochemical properties and release mechanism of [mangostin]. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 4927-4941	7.3	40
72	Surface structural and solar absorptance features of nitrate-based copper-cobalt oxides composite coatings: Experimental studies and molecular dynamic simulation. <i>Ceramics International</i> , <b>2018</b> , 44, 15274-15280	5.1	10
71	An Investigation on bilayer structures of electrospun polyacrylonitrile nanofibrous membrane and cellulose membrane used as filtration media for apple juice clarification. <i>Materials Research Express</i> , <b>2018</b> , 5, 054003	1.7	6
70	Electrospun polyvinylpyrrolidone (PVP)/green tea extract composite nanofiber mats and their antioxidant activities. <i>Materials Research Express</i> , <b>2018</b> , 5, 054001	1.7	18

69	The Design of Mini-Rotary Forcespinning System for Nanofiber Synthesis. <i>Procedia Engineering</i> , <b>2017</b> , 170, 24-30		4
68	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> , <b>2017</b> , 170, 509-515		7
67	Polyvinyl Alcohol/Soursop Leaves Extract Composite Nanofibers Synthesized Using Electrospinning Technique and their Potential as Antibacterial Wound Dressing. <i>Procedia Engineering</i> , <b>2017</b> , 170, 31-35		36
66	Single Phase Induction Motor Speed Regulation Using a PID Controller for Rotary Forcespinning Apparatus. <i>Procedia Engineering</i> , <b>2017</b> , 170, 404-409		5
65	Encapsulation of $\beta$ -carotene in poly(vinylpyrrolidone) (PVP) by Electrospinning Technique. <i>Procedia Engineering</i> , <b>2017</b> , 170, 19-23		32
64	Rotary Forcespun Polyvinylpyrrolidone (PVP) Fibers as a Mangosteen Pericarp Extracts Carrier. <i>Procedia Engineering</i> , <b>2017</b> , 170, 14-18		10
63	Synthesis of High-Impact Polystyrene Fibers using Electrospinning. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012010	0.4	6
62	Correlation between Structures and Antioxidant Activities of Polyvinylpyrrolidone/Garcinia mangostana L. Extract Composite Nanofiber Mats Prepared Using Electrospinning. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-10	3.2	39
61	Synthesis of Polyvinylpyrrolidone (PVP)-Green Tea Extract Composite Nanostructures using Electrohydrodynamic Spraying Technique. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012043	0.4	11
60	Development of a Simple Single-Axis Motion Table System for Testing Tilt Sensors. <i>Procedia Engineering</i> , <b>2017</b> , 170, 378-383		2
59	Fabrication of Electrospun Nanofiber from Waste Expanded Polystyrene for Aerosol Filtration Application. <i>Advanced Science Letters</i> , <b>2017</b> , 23, 5729-5732	0.1	3
58	Structural, optical, and mechanical properties of cobalt copper oxide coatings synthesized from low concentrations of sol-gel process. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 3205-3213	1.6	6
57	Intermolecular Interactions and the Release Pattern of Electrospun Curcumin-Polyvinyl(pyrrolidone) Fiber. <i>Biological and Pharmaceutical Bulletin</i> , <b>2016</b> , 39, 163-73	2.3	68
56	Simply Electrospun Gelatin/Cellulose Acetate Nanofibers and their Physico-Chemical Characteristics. <i>Materials Science Forum</i> , <b>2016</b> , 880, 95-98	0.4	9
55	Predicting jet radius in electrospinning by superpositioning exponential functions. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 739, 012097	0.3	3
54	Instrumentation system design and laboratory scale simulation of landslide disaster mitigation. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 739, 012056	0.3	0
53	A Simple Accelerometer Calibrator. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 739, 012099	0.3	
52	Electrospun Polyvinylpyrrolidone (PVP) Nanofiber Mats Loaded by Garcinia mangostana L. Extracts. <i>Materials Science Forum</i> , <b>2016</b> , 880, 11-14	0.4	18

51	Design and Implementation of Automatic Air Flow Rate Control System. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 739, 012011	0.3	2
50	A simple and low cost tilt examiner system development for a precise landslide early warning system <b>2016</b> ,		1
49	Design of Deformation Monitoring System for Volcano Mitigation. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 739, 012084	0.3	
48	Study of soil moisture sensor for landslide early warning system: Experiment in laboratory scale. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 739, 012034	0.3	3
47	Synthesis of LiFePO <sub>4</sub> /Li <sub>2</sub> SiO <sub>3</sub> /reduced Graphene Oxide (rGO) Composite via Hydrothermal Method. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 739, 012087	0.3	1
46	Air temperature regulation in a chamber for rotary forcespinning <b>2016</b> ,		1
45	Characterization of a water level measurement system developed using a commercial submersible pressure transducer <b>2016</b> ,		3
44	Development of a simple low-scale solar simulator and its light distribution <b>2016</b> ,		4
43	Generation of Submicron Bubbles using Venturi Tube Method. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 739, 012058	0.3	2
42	Realization of Deflection-type Bridge instruments to determine soil moisture using Research-Based Learning. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 739, 012035	0.3	
41	A Simple Spectrometer Using Various LEDs and a Photodiode Sensor for Photocatalytic Performance Evaluation. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 771, 17-20	0.3	3
40	Electrospun Polyvinylpyrrolidone as a Carrier for Leaves Extracts of <i>Anredera cordifolia</i> (Ten.) Steenis. <i>Materials Science Forum</i> , <b>2015</b> , 827, 91-94	0.4	7
39	Fabrication of Poly(acrylonitrile)/PAN Nanofiber Using a Drum Collector Electrospinning System for Water Purification Application. <i>Advanced Materials Research</i> , <b>2015</b> , 1123, 281-284	0.5	3
38	Designing of a High Voltage Power Supply for Electrospinning Apparatus Using a High Voltage Flyback Transformer (HVFBT). <i>Applied Mechanics and Materials</i> , <b>2015</b> , 771, 145-148	0.3	2
37	The Influence of Non-Ionic Surfactant on the Physical Characteristics of Curcumin-Loaded Nanofiber Manufactured by Electrospinning Method. <i>Advanced Materials Research</i> , <b>2015</b> , 1112, 429-432	0.5	5
36	Optimization of Solvent System and Polymer Concentration for Synthesis of Polyvinyl Alcohol (PVA) Fiber Using Rotary Forcespinning Technique. <i>Advanced Materials Research</i> , <b>2015</b> , 1123, 20-23	0.5	4
35	Synthesis of Styrofoam Fibers Using Rotary Forcespinning Technique. <i>Materials Science Forum</i> , <b>2015</b> , 827, 279-284	0.4	8
34	Measurement of Glucose in Blood Using a Simple Non Invasive Method. <i>Materials Science Forum</i> , <b>2015</b> , 827, 105-109	0.4	1

33	Photocatalytic Activities of Electrospun TiO <sub>2</sub> /Styrofoam Composite Nanofiber Membrane in Degradation of Waste Water. <i>Materials Science Forum</i> , <b>2015</b> , 827, 7-12	0.4	7
32	Web-Based Surface Level Measuring System Employing Ultrasonic Sensors and GSM/GPRS-Based Communication. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 771, 92-95	0.3	3
31	A Computer-Based Air Flow Control System for Aerosol and Filtration Research. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 771, 137-140	0.3	1
30	Development of a Wireless Sensor Network for Temperature and Humidity Monitoring. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 771, 42-45	0.3	3
29	Design of 3D scanner for surface contour mapping by ultrasonic sensor <b>2015</b> ,		1
28	Poly(Vinyl Alcohol)/Chitosan Nanofibrous Membrane Containing <i>Anredera cordifolia</i> (Ten.) Steenis. <i>Advanced Materials Research</i> , <b>2015</b> , 1112, 453-457	0.5	2
27	Design and implementation of wireless sensor network on Ground movement Detection System <b>2015</b> ,		2
26	High Performance Current-Voltage Characterization System for High Resistance Materials. <i>Advanced Materials Research</i> , <b>2014</b> , 896, 710-713	0.5	
25	Mass Production of Stacked Styrofoam Nanofibers Using a Multinozzle and Drum Collector Electrospinning System. <i>Advanced Materials Research</i> , <b>2014</b> , 896, 20-23	0.5	8
24	Electrospinning of Poly(vinyl alcohol)/Chitosan via Multi-Nozzle Spinneret and Drum Collector. <i>Advanced Materials Research</i> , <b>2014</b> , 896, 41-44	0.5	4
23	Control of cone-jet geometry during electro spray by an electric current. <i>Advanced Powder Technology</i> , <b>2013</b> , 24, 532-536	4.6	17
22	Self-assembly of colloidal nanoparticles inside charged droplets during spray-drying in the fabrication of nanostructured particles. <i>Langmuir</i> , <b>2013</b> , 29, 13152-61	4	46
21	Preparation of agglomeration-free spherical hollow silica particles using an electro spray method with colloidal templating. <i>Materials Letters</i> , <b>2013</b> , 106, 432-435	3.3	17
20	A comprehensive characterization of a linear deformation sensor for applications in triaxial compression tests <b>2013</b> ,		1
19	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> , <b>2013</b> , 24, 143-149	4.6	7
18	Preparation of Polyacrylonitrile Nanofibers with Controlled Morphology Using a Constant-Current Electrospinning System for Filter Applications. <i>Materials Science Forum</i> , <b>2013</b> , 737, 159-165	0.4	13
17	Preparation and characterization of boron oxide-based red-emitting phosphors using Eu, Al and Ca additives. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 133, 392-397	4.4	3
16	Intense green and yellow emissions from electrospun BCNO phosphor nanofibers. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 12629		46

15	Morphology Controlled Electrospun Nanofibers for Humidity Sensor Application <b>2011</b> ,		7
14	Photoluminescent ZrO <sub>2</sub> :Eu <sup>3+</sup> Nanofibers Prepared via Electrospinning. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 115003	1.4	12
13	Experimental evaluation of the pressure and temperature dependence of ion-induced nucleation. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 124315	3.9	3
12	Indium Tin Oxide Nanofiber Film Electrode for High Performance Dye Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 010213	1.4	26
11	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> , <b>2009</b> , 105, 064311	2.5	18
10	Morphology-controlled synthesis of chromia/titania nanofibers via electrospinning followed by annealing. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 116, 169-174	4.4	9
9	Scaling law on particle-to-fiber formation during electrospinning. <i>Polymer</i> , <b>2009</b> , 50, 4935-4943	3.9	120
8	High performance electrospinning system for fabricating highly uniform polymer nanofibers. <i>Review of Scientific Instruments</i> , <b>2009</b> , 80, 026106	1.7	24
7	A constant-current electrospinning system for production of high quality nanofibers. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 093904	1.7	34
6	Optical and electrical properties of indium tin oxide nanofibers prepared by electrospinning. <i>Nanotechnology</i> , <b>2008</b> , 19, 145603	3.4	58
5	Patterned indium tin oxide nanofiber films and their electrical and optical performance. <i>Nanotechnology</i> , <b>2008</b> , 19, 375601	3.4	34
4	An AT89S52 microcontroller-based single board computer for teaching an instrumentation system course. <i>Computer Applications in Engineering Education</i> , <b>2007</b> , 15, 166-173	1.6	5
3	A simple microcontroller-based current electrometer made from LOG112 and C8051F006 for measuring current in metal/oxide/semiconductor devices. <i>Measurement Science and Technology</i> , <b>2007</b> , 18, 3019-3024	2	9
2	Heating Profile Effect on Morphology, Crystallinity, and Photoluminescent Properties of Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> Phosphor Nanofibers Prepared Using an Electrospinning Method. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 6705-6709	1.4	12
1	The performance of an electrical ionizer as a bipolar aerosol charger for charging ultrafine particles. <i>Aerosol Science and Technology</i> , 1-17	3.4	2