Muhammad Miftahul Munir

List of Publications by Year
in descending order

110 papers	1,605 citations	331259 21 h-index	360668 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. Polymer, 2009, 50, 4935-4943.	1.8	139
2	Intermolecular Interactions and the Release Pattern of Electrospun Curcumin-Polyvinyl(pyrrolidone) Fiber. Biological and Pharmaceutical Bulletin, 2016, 39, 163-173.	0.6	129
3	Electrospun nanofiber from various source of expanded polystyrene (EPS) waste and their characterization as potential air filter media. Waste Management, 2020, 103, 76-86.	3.7	69
4	Optical and electrical properties of indium tin oxide nanofibers prepared by electrospinning. Nanotechnology, 2008, 19, 145603.	1.3	64
5	Mangosteen pericarp extract embedded in electrospun PVP nanofiber mats: physicochemical properties and release mechanism of α-mangostin. International Journal of Nanomedicine, 2018, Volume 13, 4927-4941.	3.3	55
6	Correlation between Structures and Antioxidant Activities of Polyvinylpyrrolidone/Garcinia mangostana L. Extract Composite Nanofiber Mats Prepared Using Electrospinning. Journal of Nanomaterials, 2017, 2017, 1-10.	1.5	54
7	Self-Assembly of Colloidal Nanoparticles Inside Charged Droplets during Spray-Drying in the Fabrication of Nanostructured Particles. Langmuir, 2013, 29, 13152-13161.	1.6	52
8	Polyvinyl Alcohol/Soursop Leaves Extract Composite Nanofibers Synthesized Using Electrospinning Technique and their Potential as Antibacterial Wound Dressing. Procedia Engineering, 2017, 170, 31-35.	1.2	52
9	Intense green and yellow emissions from electrospun BCNO phosphor nanofibers. Journal of Materials Chemistry, 2011, 21, 12629.	6.7	50
10	Encapsulation of Î²-carotene in poly(vinylpyrrolidone) (PVP) by Electrospinning Technique. Procedia Engineering, 2017, 170, 19-23.	1.2	43
11	Air filtration media from electrospun waste high-impact polystyrene fiber membrane. Materials Research Express, 2018, 5, 035049.	0.8	42
12	Controlled morphology of electrospun nanofibers from waste expanded polystyrene for aerosol filtration. Nanotechnology, 2019, 30, 425602.	1.3	38
13	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.	1.7	37
14	A constant-current electrospinning system for production of high quality nanofibers. Review of Scientific Instruments, 2008, 79, 093904.	0.6	36
15	Patterned indium tin oxide nanofiber films and their electrical and optical performance. Nanotechnology, 2008, 19, 375601.	1.3	36
16	Polyvinylpyrrolidone/cellulose acetate electrospun composite nanofibres loaded by glycerine and garlic extract within vitroantibacterial activity and release behaviour test. RSC Advances, 2019, 9, 26351-26363.	1.7	34
17	Electrospun polyvinylpyrrolidone (PVP)/green tea extract composite nanofiber mats and their antioxidant activities. Materials Research Express, 2018, 5, 054001.	0.8	30
18	High performance electrospinning system for fabricating highly uniform polymer nanofibers. Review of Scientific Instruments, 2009, 80, 026106.	0.6	28

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19	Aerosol Chamber Characterization for Commercial Particulate Matter (PM) Sensor Evaluation. Aerosol and Air Quality Research, 2019, 19, 181-194.	0.9	28
20	Indium Tin Oxide Nanofiber Film Electrode for High Performance Dye Sensitized Solar Cells. Japanese Journal of Applied Physics, 2010, 49, 010213.	0.8	27
21	Synthesis of Polyvinylpyrrolidone (PVP)-Green Tea Extract Composite Nanostructures using Electrohydrodynamic Spraying Technique. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012043.	0.3	27
22	Electrospun Polyvinylpyrrolidone (PVP) Nanofiber Mats Loaded by <i>Garcinia mangostana</i> L. Extracts. Materials Science Forum, 0, 880, 11-14.	0.3	22
23	Photoluminescent and crystalline properties of Y3â^'xAl5O12:Cex3+ phosphor nanofibers prepared by electrospinning. Journal of Applied Physics, 2009, 105, .	1.1	20
24	Control of cone-jet geometry during electrospray by an electric current. Advanced Powder Technology, 2013, 24, 532-536.	2.0	18
25	Preparation of agglomeration-free spherical hollow silica particles using an electrospray method with colloidal templating. Materials Letters, 2013, 106, 432-435.	1.3	18
26	Rotary Forcespun Polyvinylpyrrolidone (PVP) Fibers as a Mangosteen Pericarp Extracts Carrier. Procedia Engineering, 2017, 170, 14-18.	1.2	17
27	A simple microcontroller-based current electrometer made from LOG112 and C8051F006 for measuring current in metalâ€“oxideâ€“semiconductor devices. Measurement Science and Technology, 2007, 18, 3019-3024.	1.4	15
28	Heating Profile Effect on Morphology, Crystallinity, and Photoluminescent Properties of Y₂O₃:Eu³⁺ Phosphor Nanofibers Prepared Using an Electrospinning Method. Japanese Journal of Applied Physics, 2007, 46, 6705.	0.8	15
29	Photoluminescent ZrO₂:Eu³⁺ Nanofibers Prepared via Electrospinning. Japanese Journal of Applied Physics, 2010, 49, 115003.	0.8	15
30	A superhydrophilic bilayer structure of a nylon 6 nanofiber/cellulose membrane and its characterization as potential water filtration media. RSC Advances, 2020, 10, 17205-17216.	1.7	14
31	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
32	A simple solar simulator with highly stable controlled irradiance for solar panel characterization. Measurement and Control, 2019, 52, 159-168.	0.9	12
33	Synthesis of Styrofoam Fibers Using Rotary Forcespinning Technique. Materials Science Forum, 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. Procedia Engineering, 2017, 170, 509-515.	1.2	11
35	Fabrication and structure optimization of expanded polystyrene (EPS) waste fiber for high-performance air filtration. Powder Technology, 2022, 402, 117357.	2.1	11
36	Simply Electrospun Gelatin/Cellulose Acetate Nanofibers and their Physico-Chemical Characteristics. Materials Science Forum, 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.	0.3	10
38	Synthesis of Fibers and Particles from Polyvinyl Chloride (PVC) Waste Using Electrospinning. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012014.	0.3	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.	1.5	10
40	Formation of electrosprayed composite nanoparticles from polyvinylpyrrolidone/mangosteen pericarp extract. Advanced Powder Technology, 2020, 31, 1811-1824.	2.0	10
41	Morphology-controlled synthesis of chromiaâ€“titania nanofibers via electrospinning followed by annealing. Materials Chemistry and Physics, 2009, 116, 169-174.	2.0	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.	0.8	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.	0.9	9
44	Dual needle corona discharge to generate stable bipolar ion for neutralizing electrosprayed nanoparticles. Advanced Powder Technology, 2021, 32, 166-174.	2.0	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 TiO₂/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.	0.8	8
49	Needleless electrospinning system with wire spinneret: an alternative way to control morphology, size, and productivity of nanofibers. Nano Express, 2020, 1, 010046.	1.2	8
50	Morphology Controlled Electrospun Nanofibers for Humidity Sensor Application. , 2011, , .		7
51	Ion-induced nucleation rate measurement in SO2/H2O/N2 gas mixture by soft X-ray ionization at various pressures and temperatures. Advanced Powder Technology, 2013, 24, 143-149.	2.0	7
52	Electrospun Polyvinylpyrrolidone as a Carrier for Leaves Extracts of Anredera cordifolia (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.	0.3	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.	1.4	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.	2.6	6
65	An AT89S52 microcontrollerâ€based single board computer for teaching an instrumentation system course. Computer Applications in Engineering Education, 2007, 15, 166-173.	2.2	5
66	Poly(Vinyl Alcohol)/Chitosan Nanofibrous Membrane Containing <i>Anredera cordifolia </i>(Ten.) Steenis. 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.	0.3	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.	1.1	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.	0.8	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.	1.5	5

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73	Generation of Submicron Bubbles using Venturi Tube Method. Journal of Physics: Conference Series, 2016, 739, 012058.	0.3	4
74	Fabrication and Characterization of Monodisperse Polystyrene Latex (PSL) with Various Diameters. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012015.	0.3	4
75	Experimental evaluation of the pressure and temperature dependence of ion-induced nucleation. Journal of Chemical Physics, 2010, 133, 124315.	1.2	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.	2.0	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.	0.3	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.	2.3	3
84	Electrosprayed Polyvinylpyrrolidone (PVP) Submicron Particles Loaded by Green Tea Extracts. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012036.	0.3	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.	0.9	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.	0.3	2
88	Synthesis of LiFePO₄/Li₂SiO₃/reduced Graphene Oxide (rGO) Composite via Hydrothermal Method. Journal of Physics: Conference Series, 2016, 739, 012087.	0.3	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.	0.9	2

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91	Synthesis and Characterization of Rotary Forcespun Polyvinylpyrrolidone Fibers Loaded by Garlic (Allium sativum) Extract. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012005.	0.3	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, , .	0.3	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.	0.3	1
96	A simple and low cost tilt examiner system development for a precise landslide early warning system. AIP Conference Proceedings, 2016, , .	0.3	1
97	Dynamics of coupled cylinders containing identical granules as potential new â€œgranular brakingâ€• system. Powder Technology, 2018, 336, 506-515.	2.1	1
98	Fabrication and Characterization of Rotary Forcespun Styrofoam Fibers. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012039.	0.3	1
99	How human age affects the signatureâ€™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.	0.7	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, , .	0.3	0
103	A Simple Accelerometer Calibrator. Journal of Physics: Conference Series, 2016, 739, 012099.	0.3	0
104	Rotary forcespun styrofoam fibers as a soilless growing medium. AIP Conference Proceedings, 2016, , .	0.3	0
105	Design of Deformation Monitoring System for Volcano Mitigation. Journal of Physics: Conference Series, 2016, 739, 012084.	0.3	0
106	Realization of Deflection-type Bridge instruments to determine soil moisture using Research-Based Learning. Journal of Physics: Conference Series, 2016, 739, 012035.	0.3	0
107	A simple landslide model at a laboratory scale. AIP Conference Proceedings, 2017, , .	0.3	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. Aerosol Science and Technology, 2022, 56, 281-294.	1.5	0
110	Pulse Height Analyzer with Coincidence Correction. Journal of Physics: Conference Series, 2022, 2243, 012037.	0.3	0