

# Firoz Alam

## List of Publications by Year in descending order

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145  
papers

2,451  
citations

236833

25  
h-index

289141

40  
g-index

153  
all docs

153  
docs citations

153  
times ranked

2084  
citing authors

#	ARTICLE	IF	CITATIONS
1	Third Generation Biofuel from Algae. <i>Procedia Engineering</i> , 2015, 105, 763-768.	1.2	165
2	Biofuel from Algae- Is It a Viable Alternative?. <i>Procedia Engineering</i> , 2012, 49, 221-227.	1.2	137
3	Some Promising Microalgal Species for Commercial Applications: A review. <i>Energy Procedia</i> , 2017, 110, 510-517.	1.8	134
4	Utilization of Learning Management Systems (LMSs) in higher education system: A case review for Saudi Arabia. <i>Energy Procedia</i> , 2019, 160, 731-737.	1.8	90
5	Hybrid energy system for St. Martin Island, Bangladesh: An optimized model. <i>Procedia Engineering</i> , 2012, 49, 179-188.	1.2	67
6	An analytical review on the evaluation of wind resource and wind turbine for urban application: Prospect and challenges. <i>Developments in the Built Environment</i> , 2020, 4, 100033.	2.0	63
7	Commercially important bioproducts from microalgae and their current applications – A review. <i>Energy Procedia</i> , 2019, 160, 752-760.	1.8	62
8	Mean and time-varying flow measurements on the surface of a family of idealised road vehicles. <i>Experimental Thermal and Fluid Science</i> , 2003, 27, 639-654.	1.5	53
9	Thermoelastic frictional contact of functionally graded materials with arbitrarily varying properties. <i>International Journal of Mechanical Sciences</i> , 2012, 63, 86-98.	3.6	53
10	Digital technologies, healthcare and Covid-19: insights from developing and emerging nations. <i>Health and Technology</i> , 2022, 12, 547-568.	2.1	45
11	Aerodynamic behaviour of single sport jersey fabrics with different roughness and cover factors. <i>Sports Engineering</i> , 2009, 12, 1-12.	0.5	41
12	Nuclear power plants in emerging economies and human resource development: A review. <i>Energy Procedia</i> , 2019, 160, 3-10.	1.8	41
13	A comparative study of football aerodynamics. <i>Procedia Engineering</i> , 2010, 2, 2443-2448.	1.2	39
14	A Study on Aerodynamic Drag of a Semi-trailer Truck. <i>Procedia Engineering</i> , 2013, 56, 201-205.	1.2	38
15	A Review of Hydropower Projects in Nepal. <i>Energy Procedia</i> , 2017, 110, 581-585.	1.8	37
16	Aerodynamic performance evaluation of sports textile. <i>Procedia Engineering</i> , 2010, 2, 2517-2522.	1.2	35
17	Measurements of aerodynamic properties of badminton shuttlecocks. <i>Procedia Engineering</i> , 2010, 2, 2487-2492.	1.2	34
18	A study of golf ball aerodynamic drag. <i>Procedia Engineering</i> , 2011, 13, 226-231.	1.2	32

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19	Prospect of eLearning in Higher Education Sectors of Saudi Arabia: A Review. Energy Procedia, 2017, 110, 574-580.	1.8	32
20	An experimental study of thermal comfort and aerodynamic efficiency of recreational and racing bicycle helmets. Procedia Engineering, 2010, 2, 2413-2418.	1.2	31
21	Transnational Education: Benefits, Threats and Challenges. Procedia Engineering, 2013, 56, 870-874.	1.2	30
22	Prospect of wind energy utilization in Saudi Arabia: A review. Energy Procedia, 2019, 160, 746-751.	1.8	30
23	The global climate change and its effect on power generation in Bangladesh. Energy Policy, 2013, 61, 1460-1470.	4.2	29
24	Review of tennis ball aerodynamics. Sports Technology, 2008, 1, 7-16.	0.4	28
25	Development of an innovative technique for teaching and learning of laboratory experiments for engineering courses. Energy Procedia, 2019, 160, 806-811.	1.8	28
26	A new house wall system for residential buildings. Energy and Buildings, 2013, 67, 403-418.	3.1	27
27	Algae for biofuels: The third generation of feedstock. , 2019, , 323-344.		27
28	Aerodynamics of contemporary FIFA soccer balls. Procedia Engineering, 2011, 13, 188-193.	1.2	26
29	Contribution of swimsuits to swimmer's performance. Procedia Engineering, 2010, 2, 2505-2510.	1.2	25
30	Effects of surface structure on soccer ball aerodynamics. Procedia Engineering, 2012, 34, 146-151.	1.2	24
31	Investigate the Potential of Using Trilateral Flash Cycle for Combined Desalination and Power Generation Integrated with Salinity Gradient Solar Ponds. Procedia Engineering, 2012, 49, 42-49.	1.2	23
32	A Study of Dimple Characteristics on Golf Ball Drag. Procedia Engineering, 2016, 147, 87-91.	1.2	23
33	Energy efficient residential house wall system. Applied Thermal Engineering, 2013, 58, 400-410.	3.0	22
34	Design of an energy efficient car by biomimicry of a boxfish. Energy Procedia, 2019, 160, 40-44.	1.8	21
35	Bio-Inspired Design: Aerodynamics of Boxfish. Procedia Engineering, 2015, 105, 323-328.	1.2	20
36	Design of a micro wind turbine and its economic feasibility study for residential power generation in built-up areas. Energy Procedia, 2019, 160, 812-819.	1.8	20

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37	Review of tennis ball aerodynamics. Sports Technology, 0, 1, 7-16.	0.4	20
38	A Pilot Study on Postgraduate Supervision. Procedia Engineering, 2013, 56, 875-881.	1.2	19
39	Rapid prototyping of high performance sportswear. Procedia Engineering, 2012, 34, 38-43.	1.2	18
40	Review of Wind Energy Utilization in South Asia. Procedia Engineering, 2012, 49, 213-220.	1.2	18
41	Bicycle aerodynamics: an experimental evaluation methodology. Sports Engineering, 2012, 15, 73-80.	0.5	18
42	An Aerodynamic Study of a Micro Scale Vertical Axis Wind Turbine. Procedia Engineering, 2013, 56, 568-572.	1.2	18
43	An Aerodynamic Study of a Domestic Scale Horizontal Axis Wind Turbine With Varied Tip Configurations. Procedia Engineering, 2015, 105, 757-762.	1.2	18
44	Design and methodology for evaluating aerodynamic characteristics of sports textiles. Sports Technology, 2009, 2, 81-86.	0.4	17
45	An Experimental Study of a Cyclonic Vertical Axis Wind Turbine for Domestic Scale Power Generation. Procedia Engineering, 2015, 105, 686-691.	1.2	17
46	Nonlinear vibration of edged cracked FGM beams using differential quadrature method. Science China: Physics, Mechanics and Astronomy, 2012, 55, 2114-2121.	2.0	16
47	Computational fluid dynamics study of vehicle A-pillar aero-acoustics. Applied Acoustics, 2013, 74, 882-896.	1.7	15
48	Effects of Vehicle A-pillar Shape on Local Mean and Time-Varying Flow Properties. , 0, , .		14
49	Flight trajectory simulation of badminton shuttlecocks. Procedia Engineering, 2011, 13, 344-349.	1.2	14
50	Experimental and Computational Study of a Micro Vertical Axis Wind Turbine. Procedia Engineering, 2012, 49, 254-262.	1.2	14
51	Quality Assurance and Accreditation of Engineering Education in Bangladesh. Procedia Engineering, 2013, 56, 864-869.	1.2	14
52	Design and methodology for evaluating aerodynamic characteristics of sports textiles. Sports Technology, 0, 2, 81-86.	0.4	14
53	Towards next generation Savonius wind turbine: Artificial intelligence in blade design trends and framework. Renewable and Sustainable Energy Reviews, 2022, 168, 112531.	8.2	14
54	Simulation of Vehicle A-Pillar Aerodynamics using various Turbulence Models. , 2004, , .		13

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55	Engineering education in Bangladesh â€“ an indicator of economic development. European Journal of Engineering Education, 2012, 37, 217-228.	1.5	13
56	A study of baseball and softball aerodynamics. Procedia Engineering, 2012, 34, 86-91.	1.2	13
57	Impact of Vehicle add-ons on Energy Consumption and Greenhouse Gas Emissions. Procedia Engineering, 2012, 49, 294-302.	1.2	13
58	Effect of Various Deflectors on Drag Reduction for Trucks. Energy Procedia, 2017, 110, 561-566.	1.8	13
59	A review on the methods used to reduce the scouring effect of bridge pier. Energy Procedia, 2019, 160, 45-50.	1.8	13
60	Aerodynamic and comfort characteristics of a double layer knitted fabric assembly for high speed winter sports. Procedia Engineering, 2010, 2, 2837-2843.	1.2	12
61	Aerodynamics of baseball. Procedia Engineering, 2011, 13, 207-212.	1.2	12
62	Effect of Turbulence on a Savonius Type Micro Wind Turbine. Energy Procedia, 2017, 110, 549-554.	1.8	12
63	Effect of sizing of a Savonius type vertical axis micro wind turbine. Energy Procedia, 2017, 110, 555-560.	1.8	12
64	Drag Reduction of a Passenger Car Using Flow Control Techniques. International Journal of Automotive Technology, 2019, 20, 397-410.	0.7	12
65	The Effect of Climate Change on Power Generation in Australia. Procedia Engineering, 2013, 56, 656-660.	1.2	11
66	Effect of Climates and Building Materials on House Wall Thermal Performance. Procedia Engineering, 2013, 56, 661-666.	1.2	11
67	Aerodynamics of Ribbed Bicycle Racing Helmets. Procedia Engineering, 2014, 72, 691-696.	1.2	11
68	A review on the regional collaboration of power utilisation in South Asia. Energy Procedia, 2019, 160, 11-17.	1.8	11
69	Aerodynamic study of ski jumping suits. Procedia Engineering, 2011, 13, 376-381.	1.2	10
70	A System Dynamics Conceptual Model on Retail Electricity Supply and Demand System to Minimize Retailer's Cost in Eastern Australia. Procedia Engineering, 2012, 49, 330-337.	1.2	10
71	Examining the Potential of Split Reaction Water Turbine for Ultra-Low Head Hydro Resources. Procedia Engineering, 2012, 49, 197-204.	1.2	10
72	A Review of Microalgal Biofuels, Challenges and Future Directions. Green Energy and Technology, 2018, , 83-108.	0.4	10

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73	Dependence on energy in South Asia and the need for a regional solution. Energy Procedia, 2019, 160, 26-33.	1.8	10
74	A full scale bicycle aerodynamics testing methodology. Procedia Engineering, 2011, 13, 94-99.	1.2	9
75	Effects of seam and surface texture on tennis balls aerodynamics. Procedia Engineering, 2012, 34, 140-145.	1.2	9
76	Regional Power Trading and Energy Exchange Platforms. Energy Procedia, 2017, 110, 592-596.	1.8	9
77	Indigenous and imported natural gas and the economic growth of Bangladesh: The challenges ahead. Energy Procedia, 2019, 160, 18-25.	1.8	9
78	An Experimental Study of Airflow Behaviour around a Standard 2-man Bobsleigh. Procedia Engineering, 2013, 60, 479-484.	1.2	8
79	On-road and Wind Tunnel Aerodynamic Study of Human Powered Vehicles. Procedia Engineering, 2013, 60, 473-478.	1.2	8
80	An experimental investigation on the aerodynamic drag coefficient and surface roughness properties of sport textiles. Journal of the Textile Institute, 2014, 105, 414-422.	1.0	8
81	Dynamic instability of an elastic solid sliding against a functionally graded material coated half-plane. International Journal of Mechanical Sciences, 2014, 89, 323-331.	3.6	8
82	Static Computational Fluid Dynamics simulations around a specialised delta wing. Computers and Fluids, 2014, 100, 155-164.	1.3	8
83	Sourcing Green Power in Bhutan: A Review. Energy Procedia, 2017, 110, 586-591.	1.8	8
84	A review on aerodynamics and hydrodynamics in sports. Energy Procedia, 2019, 160, 798-805.	1.8	8
85	Statistical Reliability Assessment for Small Sample of Failure Data of Dumper Diesel Engines Based on Power Law Process and Maximum Likelihood Estimation. Applied Sciences (Switzerland), 2021, 11, 5387.	1.3	8
86	Aerodynamic study of Human Powered Vehicles. Procedia Engineering, 2012, 34, 9-14.	1.2	7
87	The compression effect on aerodynamic properties of sports fabrics. Procedia Engineering, 2012, 34, 56-61.	1.2	7
88	Thermal Performance Modelling of Residential House Wall Systems. Procedia Engineering, 2012, 49, 161-168.	1.2	7
89	Effect of Porosity of Badminton Shuttlecock on Aerodynamic Drag. Procedia Engineering, 2015, 112, 430-435.	1.2	7
90	An experimental study on of the effect of various deflectors used for light trucks in Indian subcontinent. Energy Procedia, 2019, 160, 34-39.	1.8	7

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91	A Study of Aerodynamic Drag and Thermal Efficiency of a Series of Bicycle Helmets. , 2006, , 127-131.		7
92	Prediction of COVID-19 Cases from the Nexus of Air Quality and Meteorological Phenomena: Bangladesh Perspective. Earth Systems and Environment, 2022, 6, 307-325.	3.0	7
93	A comparative study of rugby ball aerodynamics. Procedia Engineering, 2012, 34, 74-79.	1.2	6
94	Aerodynamic drag measurement of American footballs. Procedia Engineering, 2012, 34, 98-103.	1.2	6
95	An experimental study on aerodynamic performance of time trial bicycle helmets. Sports Engineering, 2014, 17, 165-170.	0.5	6
96	Threshold capability development in intensive mode business units. Education and Training, 2016, 58, 521-539.	1.7	6
97	Liquefied natural gas (LNG) market and Australia. AIP Conference Proceedings, 2017, , .	0.3	6
98	eLearning. Advances in Higher Education and Professional Development Book Series, 0, , 217-226.	0.1	6
99	Technology-Enhanced Laboratory Experiments in Learning and Teaching. Advances in Higher Education and Professional Development Book Series, 0, , 289-302.	0.1	6
100	Comparison of a High Blockage Wind Tunnel, an Open Jet Wind Tunnel and On-road Testing with Respect to External Surface Pressures. , 2001, , .		5
101	Aerodynamic behaviour of stretchable sports fabrics. Sports Technology, 2011, 4, 171-177.	0.4	5
102	Aerodynamics of ski jumping suits. Sports Technology, 2011, 4, 164-170.	0.4	5
103	Status of Power Generation by Domestic Scale Wind Turbines in Australia. Procedia Engineering, 2012, 49, 205-212.	1.2	5
104	Adjacent Wake Effect of a Vertical Axis Wind Turbine. Procedia Engineering, 2015, 105, 692-697.	1.2	5
105	Scoping e-Portfolios to Engineering and ICT Education. Procedia Engineering, 2015, 105, 852-857.	1.2	5
106	Design of a hybrid household power generation system for a coastal area: A case study for Geraldton, Australia. Energy Procedia, 2019, 160, 820-826.	1.8	5
107	Pressure Fluctuations on Automotive Rear View Mirrors. , 0, , .		4
108	Comparative aerodynamic analysis of commercial swimsuits. Sports Technology, 2010, 3, 261-267.	0.4	4

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109	A Study of Vehicle Ride Performance Using a Quarter Car Model and Half Car Model. , 2010, , .		4
110	Microstructures and aerodynamics of commercial swimsuits. Procedia Engineering, 2011, 13, 389-394.	1.2	4
111	Transient Wind Noise. , 0, , .		4
112	Residential Building Wall Systems. , 2016, , 169-196.		4
113	Investigate the Feasibility of High Aspect Ratio Vertical Axis Wind Turbine. Energy Procedia, 2017, 110, 304-309.	1.8	4
114	Numerical modeling of flow around a pier mounted in a flat and fixed bed. Energy Procedia, 2019, 160, 51-59.	1.8	4
115	Design of a hybrid household power generation system for a rural area: A case study for Oodnadatta, Australia. Energy Procedia, 2019, 160, 827-833.	1.8	4
116	Aerodynamic Drag Measurements of FIFA-approved Footballs. Procedia Engineering, 2014, 72, 703-708.	1.2	3
117	Aerodynamic Study of FIFA-approved Footballs. Procedia Engineering, 2015, 105, 317-322.	1.2	3
118	Comparative aerodynamics of synthetic badminton shuttlecocks. Sports Engineering, 2018, 21, 21-29.	0.5	3
119	An evaluation of swimsuit performance. Procedia Engineering, 2011, 13, 382-388.	1.2	2
120	An Experimental Study of New Rule Javelins. Procedia Engineering, 2013, 60, 485-490.	1.2	2
121	A Cylindrical Methodology for the Study of Fabric Aerodynamics. Procedia Engineering, 2013, 56, 297-302.	1.2	2
122	The Turbulent Flow Field Relevant to Outdoor Sports. Procedia Engineering, 2014, 72, 792-797.	1.2	2
123	Aerodynamic Body Position of the Brakeman of a 2-man Bobsleigh. Procedia Engineering, 2015, 112, 424-429.	1.2	2
124	Engineering education in 21st century. AIP Conference Proceedings, 2016, , .	0.3	2
125	Addressing Graduate Competencies: Understanding the Contextual Factors Impacting the Engineering Discipline. Energy Procedia, 2017, 110, 359-364.	1.8	2
126	A Comparison of Aerodynamic Drag of a Rugby Ball Using EFD and CFD. , 2006, , 145-150.		2



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127	An Innovative Offshore Delivery of an Undergraduate Mechanical Engineering Program. , 2012, , 233-245.		2
128	A Study of Non-linear Dynamic Aerodynamic Behaviour of a Specialised Delta Wing. Modern Applied Science, 2012, 6, .	0.4	1
129	A computational fluid dynamics study of crosswind effects on vehicle A-pillar aero-acoustics. International Journal of Vehicle Noise and Vibration, 2013, 9, 147.	0.0	1
130	An Experimental Study of Baseballs and Softballs. Procedia Engineering, 2013, 60, 467-472.	1.2	1
131	A Study of Aerodynamic Drag of Contemporary Footballs. Procedia Engineering, 2016, 147, 81-86.	1.2	1
132	Offshore Engineering Education: Assuring Quality Through Dual Accreditation. Energy Procedia, 2017, 110, 537-542.	1.8	1
133	Development of a Computational Model for Optimal Sourcing of LNG. Energy Procedia, 2017, 110, 597-603.	1.8	1
134	South Asiaâ€™s power generation and cross-border power trading. AIP Conference Proceedings, 2019, , .	0.3	1
135	Boiler Safety in South Asia. Journal of the Institution of Engineers (India): Series C, 2020, 101, 761-769.	0.7	1
136	A Micro Multi-blade Vertical Axis Wind Turbine for Built-Up Areas. Lecture Notes in Mechanical Engineering, 2021, , 149-157.	0.3	1
137	Coal Fly Ash Utilisation and Environmental Impact. , 2021, , 381-402.		1
138	Aerodynamics of Bicycle Helmets (P68). , 0, , 337-344.		1
139	Nuclear Power Plants and Human Resources Development in South Asia. Springer Proceedings in Energy, 2021, , 1603-1613.	0.2	1
140	Evaluation of Aerodynamic Drag Utilizing a Viscoelastic Model. Procedia Engineering, 2013, 60, 378-384.	1.2	0
141	The Effects of Velocity on the Friction Coefficient of Motor Vehicle Tyres and Paired Road Surfaces. Nonlinear Engineering, 2014, 3, .	1.4	0
142	An Experimental Study on Vent Locations in Road Racing Bicycle Helmet to Optimize Thermal Comfort and Aerodynamic Efficiency. , 2021, , 717-720.		0
143	Aerodynamics and safety for road trucks in Bangladesh. AIP Conference Proceedings, 2021, , .	0.3	0
144	Ambient Temperature Rise Consequences for Power Generation in Australia. , 2016, , 311-332.		0

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145	PV Cell Output Power Enhancement by Cooling and Reduction of Reflection Losses from Mirror. , 2021, , .		0