

Unai Fernandez-Gamiz

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.

77
papers

640
citations

15
h-index

20
g-index

80
ext. papers

909
ext. citations

3
avg, IF

4.67
L-index

#	Paper	IF	Citations
77	Battery Sizing Optimization in Power Smoothing Applications. <i>Energies</i> , 2022 , 15, 729	3.1	0
76	Numerical Analysis of Unsteady Hybrid Nanofluid Flow Comprising CNTs-Ferrous oxide/Water with Variable Magnetic Field.. <i>Nanomaterials</i> , 2022 , 12,	5.4	7
75	Numerical Simulation of a Time-Dependent Electroviscous and Hybrid Nanofluid with Darcy-Forchheimer Effect between Squeezing Plates.. <i>Nanomaterials</i> , 2022 , 12,	5.4	5
74	The Effect of Variable Magnetic Field on Viscous Fluid between 3-D Rotatory Vertical Squeezing Plates: A Computational Investigation. <i>Energies</i> , 2022 , 15, 2473	3.1	2
73	Electroviscous Effect of Water-Base Nanofluid Flow between Two Parallel Disks with Suction/Injection Effect. <i>Mathematics</i> , 2022 , 10, 956	2.3	4
72	Heat and mass transfer analysis of radiative and chemical reactive effects on MHD nanofluid over an infinite moving vertical plate. <i>Results in Engineering</i> , 2022 , 14, 100394	3.3	10
71	Experimental and numerical modeling of an air jet impingement system. <i>European Journal of Mechanics, B/Fluids</i> , 2022 , 94, 228-245	2.4	0
70	Computational characterization of the behavior of a saliva droplet in a social environment.. <i>Scientific Reports</i> , 2022 , 12, 6405	4.9	0
69	Particle swarm optimization algorithm for dynamic synchronization of smart grid. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022 , 44, 3940-3959	1.6	2
68	CNN-based flow control device modelling on aerodynamic airfoils.. <i>Scientific Reports</i> , 2022 , 12, 8205	4.9	0
67	Effects of thermophoresis and Brownian motion for thermal and chemically reacting Casson nanofluid flow over a linearly stretching sheet. <i>Results in Engineering</i> , 2022 , 100448	3.3	4
66	The effects of MHD radiating and non-uniform heat source/sink with heating on the momentum and heat transfer of Eyring-Powell fluid over a stretching. <i>Results in Engineering</i> , 2022 , 100435	3.3	3
65	Vanadium Redox Flow Batteries: A Review Oriented to Fluid-Dynamic Optimization. <i>Energies</i> , 2021 , 14, 176	3.1	12
64	A Relative Positioning Development for an Autonomous Mobile Robot with a Linear Regression Technique. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 627-635	0.4	0
63	Numerical Modeling of the Spread of Cough Saliva Droplets in a Calm Confined Space. <i>Mathematics</i> , 2021 , 9, 574	2.3	8
62	Testing the Accuracy of the Cell-Set Model Applied on Vane-Type Sub-Boundary Layer Vortex Generators. <i>Processes</i> , 2021 , 9, 503	2.9	4
61	Natural Ventilation Characterization in a Classroom under Different Scenarios. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	5

60	A Battery Management System with EIS Monitoring of Life Expectancy for Lead Acid Batteries. <i>Electronics (Switzerland)</i> , 2021 , 10, 1228	2.6	3
59	Automatic Identification Algorithm of Equivalent Electrochemical Circuit Based on Electroscopic Impedance Data for a Lead Acid Battery. <i>Electronics (Switzerland)</i> , 2021 , 10, 1353	2.6	1
58	Numerical Modeling of Face Shield Protection against a Sneeze. <i>Mathematics</i> , 2021 , 9, 1582	2.3	5
57	Multi-objective Optimization of Production Scheduling Using Particle Swarm Optimization Algorithm for Hybrid Renewable Power Plants with Battery Energy Storage System. <i>Journal of Modern Power Systems and Clean Energy</i> , 2021 , 9, 285-294	4	3
56	Differential Evolution Optimal Parameters Tuning with Artificial Neural Network. <i>Mathematics</i> , 2021 , 9, 427	2.3	6
55	A Data Augmentation-Based Technique for Deep Learning Applied to CFD Simulations. <i>Mathematics</i> , 2021 , 9, 1843	2.3	1
54	Rotating Microtab Implementation on a DU91W250 Airfoil Based on the Cell-Set Model. <i>Sustainability</i> , 2021 , 13, 9114	3.6	2
53	Estimating the Reattachment Length by Realizing a Comparison between URANS k-Omega SST and LES WALE Models on a Symmetric Geometry. <i>Symmetry</i> , 2021 , 13, 1555	2.7	0
52	Alternative Artificial Neural Network Structures for Turbulent Flow Velocity Field Prediction. <i>Mathematics</i> , 2021 , 9, 1939	2.3	4
51	Self-tuning Yaw Control Strategy of a Horizontal Axis Wind Turbine Based on Machine Learning. <i>Power Systems</i> , 2021 , 879-900	0.4	
50	Delamination Fracture Behavior of Unidirectional Carbon Reinforced Composites Applied to Wind Turbine Blades. <i>Materials</i> , 2021 , 14,	3.5	2
49	Dynamical Analysis of a Navigation Algorithm. <i>Mathematics</i> , 2021 , 9, 3139	2.3	2
48	Piezoelectric Energy Harvesting Controlled with an IGBT H-Bridge and Bidirectional Buck-Boost for Low-Cost 4G Devices. <i>Sensors</i> , 2020 , 20,	3.8	5
47	Semantic Segmentation to Develop an Indoor Navigation System for an Autonomous Mobile Robot. <i>Mathematics</i> , 2020 , 8, 855	2.3	10
46	A Parametric Study of Trailing Edge Flap Implementation on Three Different Airfoils Through an Artificial Neuronal Network. <i>Symmetry</i> , 2020 , 12, 828	2.7	7
45	Kharitonov Theorem Based Robust Stability Analysis of a Wind Turbine Pitch Control System. <i>Mathematics</i> , 2020 , 8, 964	2.3	5
44	jBAY Modeling of Vane-Type Vortex Generators and Study on Airfoil Aerodynamic Performance. <i>Energies</i> , 2020 , 13, 2423	3.1	10
43	Forecast Error Sensitivity Analysis for Bidding in Electricity Markets with a Hybrid Renewable Plant Using a Battery Energy Storage System. <i>Sustainability</i> , 2020 , 12, 3577	3.6	5

42	Computational modelling of TRIANGULAR sub-boundary-layer vortex generators. <i>MATEC Web of Conferences</i> , 2020 , 307, 01054	0.3	
41	ANN-Based Stop Criteria for a Genetic Algorithm Applied to Air Impingement Design. <i>Energies</i> , 2020 , 13, 16	3.1	2
40	The Gender Perspective of Professional Competencies in Industrial Engineering Studies. <i>Sustainability</i> , 2020 , 12, 2945	3.6	2
39	Flow control based 5MW wind turbine enhanced energy production for hydrogen generation cost reduction. <i>International Journal of Hydrogen Energy</i> , 2020 ,	6.7	4
38	Performance enhancement of the artificial neural networkBased reinforcement learning for wind turbine yaw control. <i>Wind Energy</i> , 2020 , 23, 676-690	3.4	19
37	Experimental Air Impingement Crossflow Comparison and Theoretical Application to Photovoltaic Efficiency Improvement. <i>Sustainability</i> , 2020 , 12, 5577	3.6	1
36	Temperature based maximum power point tracking for photovoltaic modules. <i>Scientific Reports</i> , 2020 , 10, 12476	4.9	6
35	Computational Methods for Modelling and Optimization of Flow Control Devices. <i>Energies</i> , 2020 , 13, 3710	3.1	6
34	Accuracy of the Cell-Set Model on a Single Vane-Type Vortex Generator in Negligible Streamwise Pressure Gradient Flow with RANS and LES. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 982	2.4	3
33	Cell-Set Modelling for a Microtab Implementation on a DU91W(2)250 Airfoil. <i>Energies</i> , 2020 , 13, 6723	3.1	3
32	Parametric study of vane-type vortex generators under adverse pressure gradient by source term modelling in OpenFOAM. <i>Journal of Physics: Conference Series</i> , 2019 , 1222, 012031	0.3	
31	Parametric Study of a Gurney Flap Implementation in a DU91W(2)250 Airfoil. <i>Energies</i> , 2019 , 12, 294	3.1	22
30	Optimal Wind Turbine Operation by Artificial Neural Network-Based Active Gurney Flap Flow Control. <i>Sustainability</i> , 2019 , 11, 2809	3.6	16
29	A triangular vortex generator modeling on a DU97-W-300 airfoil by a source term model. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019 , 233, 635-645	1.6	4
28	Multi-Objective Particle Swarm Based Optimization of an Air Jet Impingement System. <i>Energies</i> , 2019 , 12, 1627	3.1	8
27	Computational Characterization of a Rectangular Vortex Generator on a Flat Plate for Different Vane Heights and Angles. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 995	2.6	4
26	Mechatronic Modeling and Frequency Analysis of the Drive Train of a Horizontal Wind Turbine. <i>Energies</i> , 2019 , 12, 613	3.1	2
25	A Free Navigation of an AGV to a Non-Static Target with Obstacle Avoidance. <i>Electronics (Switzerland)</i> , 2019 , 8, 159	2.6	9

24	Artificial Neural Network Based Reinforcement Learning for Wind Turbine Yaw Control. <i>Energies</i> , 2019 , 12, 436	3.1	40
23	Experimental Evaluation of Perfluorocarbon Aerosol Generation with Two Novel Nebulizer Prototypes. <i>Pharmaceutics</i> , 2019 , 11,	6.4	5
22	Source Term Modelling of Vane-Type Vortex Generators under Adverse Pressure Gradient in OpenFOAM. <i>Energies</i> , 2019 , 12, 605	3.1	11
21	Educational Project for the Inclusion of the Scientific Culture in the Bachelor's Degrees. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 603-610	0.4	0
20	Modeling of Motorized Orthosis Control. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2453	2.6	2
19	Predictive Dynamic Window Approach Development with Artificial Neural Fuzzy Inference Improvement. <i>Electronics (Switzerland)</i> , 2019 , 8, 935	2.6	9
18	Oscillating U-Shaped Body for Underwater Piezoelectric Energy Harvester Power Optimization. <i>Micromachines</i> , 2019 , 10,	3.3	4
17	Computational Modelling of Rectangular Sub-Boundary Layer Vortex Generators. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 138	2.6	20
16	Power Control Optimization of an Underwater Piezoelectric Energy Harvester. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 389	2.6	9
15	Experimental and Numerical Modeling of Aerosol Delivery for Preterm Infants. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	6
14	5 MW Wind Turbine Annual Energy Production Improvement by Flow Control Devices. <i>Proceedings (mdpi)</i> , 2018 , 2, 1452	0.3	2
13	Computational Modelling of Three Different Sub-Boundary Layer Vortex Generators on a Flat Plate. <i>Energies</i> , 2018 , 11, 3107	3.1	19
12	Gurney Flap Implementation on a DU91W250 Airfoil. <i>Proceedings (mdpi)</i> , 2018 , 2, 1448	0.3	6
11	Computational Modeling of Gurney Flaps and Microtabs by POD Method. <i>Energies</i> , 2018 , 11, 2091	3.1	24
10	Computational characterization of the vortex generated by a Vortex Generator on a flat plate for different vane angles. <i>Aerospace Science and Technology</i> , 2017 , 65, 18-25	4.9	28
9	Dual model oriented modeling of monocrystalline PV modules based on artificial neuronal networks. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 18103-18120	6.7	8
8	Parametric study of low-profile vortex generators. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 17700-17712	6.7	37
7	Flow Control Devices for Wind Turbines. <i>Lecture Notes in Energy</i> , 2017 , 629-655	0.4	15

6	Novel control algorithm for MPPT with Boost converters in photovoltaic systems. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 17831-17855	6.7	23
5	Microtab Design and Implementation on a 5 MW Wind Turbine. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 536	2.6	22
4	Five Megawatt Wind Turbine Power Output Improvements by Passive Flow Control Devices. <i>Energies</i> , 2017 , 10, 742	3.1	43
3	Testing of self-similarity and helical symmetry in vortex generator flow simulations. <i>Wind Energy</i> , 2016 , 19, 1043-1052	3.4	32
2	Variable speed wind turbine controller adaptation by reinforcement learning. <i>Integrated Computer-Aided Engineering</i> , 2016 , 24, 27-39	5.2	16
1	Computational study of the vortex path variation with the VG height. <i>Journal of Physics: Conference Series</i> , 2014 , 524, 012024	0.3	10