Adrian Ilinca

List of Publications by Year
in descending order

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104	4,904	236833	95218
papers	citations	25 h-index	68 g-index

104	104	104	4974
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New Integrated Process for the Efficient Production of Methanol, Electrical Power, and Heating. Energies, 2022, 15, 1054.	1.6	5
2	Grid integrated non-renewable based hybrid systems: Control strategies, optimization, and modeling. , 2022, , 101-135.		3
3	Variable Speed Diesel Generators: Performance and Characteristic Comparison. Energies, 2022, 15, 592.	1.6	16
4	Parameters Affecting Dust Collector Efficiency for Pneumatic Conveying: A Review. Energies, 2022, 15, 916.	1.6	8
5	A Review on the Estimation of Power Loss Due to Icing in Wind Turbines. Energies, 2022, 15, 1083.	1.6	14
6	Thermodynamic and exergy evaluation of an innovative hydrogen liquefaction structure based on ejector-compression refrigeration unit, cascade multi-component refrigerant system, and Kalina power plant. International Journal of Hydrogen Energy, 2022, 47, 26369-26393.	3.8	12
7	Electrochemical Cells and Storage Technologies to Increase Renewable Energy Share in Cold Climate Conditionsâ€"A Critical Assessment. Energies, 2022, 15, 1579.	1.6	10
8	Energy Efficiency and Industry 4.0 in Wood Industry: A Review and Comparison to Other Industries. Energies, 2022, 15, 2384.	1.6	5
9	Optimized Active Control of a Smart Cantilever Beam Using Genetic Algorithm. Designs, 2022, 6, 36.	1.3	6
10	Wind turbine ice detection using hyperspectral imaging. Remote Sensing Applications: Society and Environment, 2022, 26, 100711.	0.8	0
11	Energy Recovering Using Regenerative Braking in Dieselâ€"Electric Passenger Trains: Economical and Technical Analysis of Fuel Savings and GHG Emission Reductions. Energies, 2022, 15, 37.	1.6	7
12	Thermo-economic optimization of a new solar-driven system for efficient production of methanol and liquefied natural gas using the liquefaction process of coke oven gas and post-combustion carbon dioxide capture. Energy Conversion and Management, 2022, 264, 115733.	4.4	8
13	Energy Efficiency Improvement of Dieselâ€"Electric Trains Using Solar Energy: A Feasibility Study. Applied Sciences (Switzerland), 2022, 12, 5869.	1.3	1
14	Numerical Modeling of Horizontal Axis Wind Turbine: Aerodynamic Performances Improvement Using an Efficient Passive Flow Control System. Energies, 2022, 15, 4872.	1.6	2
15	Demand-side management. , 2021, , 463-490.		1
16	State of the Art of Telecommunication Systems in Isolated and Constrained Areas. Sensors, 2021, 21, 3073.	2.1	1
17	Wind turbine blade defect detection using hyperspectral imaging. Remote Sensing Applications: Society and Environment, 2021, 22, 100522.	0.8	12
18	An Efficient Neural Network-Based Method for Diagnosing Faults of PV Array. Sustainability, 2021, 13, 6194.	1.6	10

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19	Review of Vibration Control Methods for Wind Turbines. Energies, 2021, 14, 3058.	1.6	27
20	Neural Network Optimization Algorithms to Predict Wind Turbine Blade Fatigue Life under Variable Hygrothermal Conditions. Eng, 2021, 2, 278-295.	1.2	11
21	Review of Wind Turbine Icing Modelling Approaches. Energies, 2021, 14, 5207.	1.6	19
22	Development and Validation of a Railway Safety System for Nordic Trains in Isolated Territories of Northern Quebec Based on IEEE 802.15.4 Protocol. Sensors, 2021, 21, 6129.	2.1	1
23	Improving the Energy Efficiency of Cyclone Dust Collectors for Wood Product Factories. Open Journal of Energy Efficiency, 2021, 10, 97-119.	0.6	2
24	REVIEW OF STUDIES ON THE CFD-BEM APPROACH FOR ESTIMATING POWER LOSSES OF ICED-UP WIND TURBINES. International Journal of Advanced Research, 2021, 9, 633-652.	0.0	2
25	A review of Industry 4.0 characteristics and challenges, with potential improvements using blockchain technology. Computers and Industrial Engineering, 2021, 162, 107746.	3.4	66
26	Blockchain-Enabled Energy Demand Side Management Cap and Trade Model. Energies, 2021, 14, 8600.	1.6	6
27	Comparative Energetic and Exergetic Analysis of Conventional and Sloped Solar Chimney Power Plants. International Journal of Energy Optimization and Engineering, 2020, 9, 57-73.	0.4	0
28	A Modular Simulation Testbed for Energy Management in AC/DC Microgrids. Energies, 2020, 13, 4049.	1.6	4
29	Effects of Low Charge and Environmental Conditions on Diesel Generators Operation. Eng, 2020, 1, 137-152.	1.2	16
30	Advanced Control of a Compensator Motor Driving a Variable Speed Diesel Generator with Rotating Stator. Energies, 2020, 13, 2224.	1.6	6
31	Hyperspectral imaging applied for the detection of wind turbine blade damage and icing. Remote Sensing Applications: Society and Environment, 2020, 18, 100291.	0.8	19
32	A cuckoo search based neural network to predict fatigue life in rotor blade composites. Journal of Mechanical Engineering and Sciences, 2020, 14, 6430-6442.	0.3	1
33	Biomass Cogeneration Technologies: A Review. Journal of Sustainable Bioenergy Systems, 2020, 10, 1-15.	0.2	32
34	Computer Model for Financial, Environmental and Risk Analysis of a Windâ€“Diesel Hybrid System with Compressed Air Energy Storage. Energies, 2019, 12, 4054.	1.6	5
35	Computer Model for a Windâ€“Diesel Hybrid System with Compressed Air Energy Storage. Energies, 2019, 12, 3542.	1.6	8
36	Supply Side Management vs. Demand Side Management of a Residential Microgrid Equipped with an Electric Vehicle in a Dual Tariff Scheme. Energies, 2019, 12, 4351.	1.6	23

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37	Eco-Friendly Selection of Diesel Generator Based on Genset-Synchro Technology for Off-Grid Remote Area Application in the North of Quebec. Energy and Power Engineering, 2019, 11, 232-247.	0.5	7
38	Performance Optimization of Diesel Generators Using Permanent Magnet Synchronous Generator with Rotating Stator. Energy and Power Engineering, 2019, 11, 259-282.	0.5	5
39	A Review and Comparison on Recent Optimization Methodologies for Diesel Engines and Diesel Power Generators. Journal of Power and Energy Engineering, 2019, 07, 31-56.	0.3	20
40	A Review and Economic Analysis of Different Emission Reduction Techniques for Marine Diesel Engines. Open Journal of Marine Science, 2019, 09, 148-171.	0.3	19
41	Supercharging of Diesel Engine with Compressed Air: Experimental Investigation on Greenhouse Gases and Performance for a Hybrid Wind-Diesel System. Smart Grid and Renewable Energy, 2019, 10, 213-236.	0.7	3
42	Study of the Intelligent Behavior of a Maximum Photovoltaic Energy Tracking Fuzzy Controller. Energies, 2018, 11, 3263.	1.6	14
43	Hydro-pneumatic storage for wind-diesel electricity generation in remote sites. Applied Energy, 2018, 231, 1159-1178.	5.1	11
44	Study of an optimized wind-diesel hybrid system for canadian remote sites. , 2017, , .		3
45	A Selection Process for Genetic Algorithm Using Clustering Analysis. Algorithms, 2017, 10, 123.	1.2	27
46	Progress in energy generation for Canadian remote sites. AIP Conference Proceedings, 2016, , .	0.3	3
47	A Constraint-Handling Technique for Genetic Algorithms using a Violation Factor. Journal of Computer Science, 2016, 12, 350-362.	0.5	45
48	Power flow management strategy for renewable hybrid energy system. , 2016, , .		3
49	Control design of new eco-friendly microgrid based on Wind/Diesel/Battery driven variable speed generators. , 2016, , .		7
50	Dynamic modeling of diesel generator based on electrical and mechanical aspects. , 2016, , .		21
51	Control of small-scale wind/diesel/battery hybrid standalone power generation system based on fixed speed generators for remote areas. , 2016, , .		8
52	Aerodynamic performance analysis of slotted airfoils for application to wind turbine blades. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 151, 79-99.	1.7	78
53	Prediction of ice accretion and anti-icing heating power on wind turbine blades using standard commercial software. Energy, 2016, 114, 1041-1052.	4.5	56
54	Ice protection systems for wind turbines in cold climate: characteristics, comparisons and analysis. Renewable and Sustainable Energy Reviews, 2016, 65, 662-675.	8.2	150

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55	Analysis of a micro-grid behavior by a supervisory control and data acquisition system-experimental validation. , 2016, , .		0
56	Energetic and exergetic evaluation of conventional and sloped solar chimney power plants. , 2016, , .		0
57	Institutional factors influencing strategic decision-making in energy policy; a case study of wind energy in France and Quebec (Canada). Renewable and Sustainable Energy Reviews, 2016, 59, 1455-1470.	8.2	24
58	OPTIMAL DESIGN FOR A COMPOSITE WIND TURBINE BLADE WITH FATIGUE AND FAILURE CONSTRAINTS. Transactions of the Canadian Society for Mechanical Engineering, 2015, 39, 171-186.	0.3	11
59	Review of performance optimization techniques applied to wind turbines. Applied Energy, 2015, 142, 361-388.	5.1	270
60	Optimal management of compressed air energy storage in a hybrid wind-pneumatic-diesel system for remote area's power generation. Energy, 2015, 84, 267-278.	4.5	30
61	Lessons learned in France and Quebec regarding financial and legal mechanisms to develop renewable energy: A hybrid model as an acceptable solution for onshore wind?. Renewable and Sustainable Energy Reviews, 2015, 47, 34-45.	8.2	8
62	Conception et validation dâ€™un modÃ¨le dâ€™analyse et de suivi pour lâ€™Ã©laboration dâ€™une politique Ã©nergÃ©tique durable et acceptable : une Ã©tude comparative France-QuÃ©bec sur lâ€™Ã©nergie Ã©olienne. VertigO: La Revue Electronique En Sciences De L'environnement, 2015, , .	0.0	5
63	CFD modelling of thermal distribution in industrial server centres for configuration optimisation and energy efficiency. International Journal of Simulation and Process Modelling, 2014, 9, 63.	0.1	0
64	Issues concerning roughness on wind turbine blades. Renewable and Sustainable Energy Reviews, 2013, 23, 514-525.	8.2	104
65	Modeling and simulation of a novel small-scale compressed air hybrid system for stand-alone off-grid applications. , 2013, , .		2
66	Territorial intelligence modelling for energy development (TIMED) - a case study for the Baie-des-Sables (Canada) wind farm. International Journal of Multicriteria Decision Making, 2013, 3, 236.	0.1	2
67	Modelling of aerodynamic flutter on a NACA 4412 airfoil with application to wind turbine blades. International Journal of Simulation and Process Modelling, 2013, 8, 79.	0.1	3
68	MCDA: Measuring Robustness as a Tool to Address Strategic Wind Farms Issues. Green Energy and Technology, 2013, , 153-182.	0.4	1
69	Numerical Study of Flow Around Iced Wind Turbine Airfoil. Engineering Applications of Computational Fluid Mechanics, 2012, 6, 39-45.	1.5	36
70	Required time response of a variable valve actuator equiping a hybrid pneumaticâ€“combustion engine. International Journal of Engine Research, 2012, 13, 514-528.	1.4	7
71	Fuel consumption evaluation of an optimized new hybrid pneumaticâ€“combustion vehicle engine on several driving cycles. International Journal of Engine Research, 2012, 13, 253-273.	1.4	11
72	Assessment of Two-Equation Turbulence Models and Validation of the Performance Characteristics of an Experimental Wind Turbine by CFD. ISRN Mechanical Engineering, 2012, 2012, 1-10.	0.9	25

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73	A new hybrid pneumatic combustion engine to improve fuel consumption of windâ€“Diesel power system for non-interconnected areas. Applied Energy, 2012, 96, 459-476.	5.1	17
74	Pneumatic hybridization of a diesel engine using compressed air storage for wind-diesel energy generation. Energy, 2012, 38, 264-275.	4.5	22
75	A multiphase CFX based approach into ice accretion modeling on a cylinder. , 2011, , .		4
76	A lagrangean interactive interface to evaluate ice accretion modeling on a cylinder - a test case for icing modeling on wind turbine airfoils. , 2011, , .		3
77	Anti-icing and de-icing techniques for wind turbines: Critical review. Cold Regions Science and Technology, 2011, 65, 88-96.	1.6	637
78	Potential of a Hybrid Wind-Diesel-Compressed air system for Nordic Remote Canadian Areas. Energy Procedia, 2011, 6, 795-804.	1.8	22
79	Integration of Wind Energy into Electricity Systems: Technical Challenges and Actual Solutions. Energy Procedia, 2011, 6, 815-824.	1.8	89
80	Optimization of diesel engine performances for a hybrid windâ€“diesel system with compressed air energy storage. Energy, 2011, 36, 3079-3091.	4.5	75
81	Software tool to predict the Wind Energy production losses due to icing. , 2011, , .		8
82	Assessment of Turbulence Models for Flow Simulation around a Wind Turbine Airfoil. Modelling and Simulation in Engineering, 2011, 2011, 1-8.	0.4	34
83	Study and design of a hybrid windâ€“diesel-compressed air energy storage system for remote areas. Applied Energy, 2010, 87, 1749-1762.	5.1	98
84	Assessing the potential for a wind power incentive for remote villages in Canada. Energy Policy, 2010, 38, 5504-5511.	4.2	24
85	SystÃ¨me hybride Ã©olien-diesel avec stockage d'air comprimÃ© pour l'Ã©lectrification d'une station de tÃ©lÃ©communications isolÃ©e. Revue Internationale De GÃ©nie Ã©lectrique, 2009, 12, 701-731.	0.0	4
86	Wind turbine performance under icing conditions. Wind Energy, 2008, 11, 319-333.	1.9	184
87	The utility of energy storage to improve the economics of windâ€“diesel power plants in Canada. Renewable Energy, 2008, 33, 1544-1557.	4.3	68
88	Energy storage systemsâ€”Characteristics and comparisons. Renewable and Sustainable Energy Reviews, 2008, 12, 1221-1250.	8.2	1,777
89	Stakeholdersâ€™ perspectives on barriers to remote windâ€“diesel power plants in Canada. Energy Policy, 2008, 36, 1611-1621.	4.2	34
90	Study of a Hybrid Wind-Diesel System with Compressed Air Energy Storage. , 2007, , .		27

#	Article	IF	Citations
91	Comparison and Analysis of Different Energy Storage Techniques Based on their Performance Index. , 2007, , .		31
92	Real-time three-dimensional wind simulation for windmill rig tests. Renewable Energy, 2007, 32, 2268-2290.	4.3	16
93	Heat and mass transfer during ice accretion on aircraft wings with an improved roughness model. International Journal of Thermal Sciences, 2006, 45, 595-606.	2.6	106
94	New Roughness Computation Method and Geometric Accretion Model for Airfoil Icing. Journal of Aircraft, 2004, 41, 119-127.	1.7	39
95	ModÃ¨le d'accrÃ©tion de glace sur un objet bidimensionnel fixe appliquable aux pales d'Ã©oliennes. VertigO: La Revue Electronique En Sciences De L'environnement, 2004, , .	0.0	1
96	Wind potential assessment of Quebec Province. Renewable Energy, 2003, 28, 1881-1897.	4.3	130
97	Prediction of 2D Airfoil Ice Accretion by Bisection Method and by Rivulets and Beads Modeling. , 2003, , .		16
98	3-D Multiple-level simulation of free surface flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2002, 40, 413-423.	0.7	6
99	Numerical and analytical investigation of temperature distribution in a brake drum with simulated defects. International Journal of Vehicle Design, 2001, 26, 146.	0.1	7
100	Error estimator and adaptive moving grids for finite volumes schemes. AIAA Journal, 1995, 33, 2058-2065.	1.5	11
101	Analysis and Mitigation of Icing Effects on Wind Turbines. , 0, , .		13
102	Aeroelasticity of Wind Turbines Blades Using Numerical Simulation. , 0, , .		4
103	Experimental Investigation of Power Requirements for Wind Turbines Electrothermal Anti-icing Systems. , 0, , .		9
104	Experimental analysis of multi-horizontal submerged jets energy dissipater. ISH Journal of Hydraulic Engineering, 0, , 1-11.	1.1	0