

Alain Ulazia

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

897
citations

361413
20
h-index

477307
29
g-index

52
all docs

52
docs citations

52
times ranked

747
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-term forecasting of the wave energy flux: Analogues, random forests, and physics-based models. <i>Ocean Engineering</i> , 2015, 104, 530-539.	4.3	97
2	Electricity production, capacity factor, and plant efficiency index at the Mutriku wave farm (2014–2016). <i>Ocean Engineering</i> , 2018, 147, 20-29.	4.3	87
3	Global estimations of wind energy potential considering seasonal air density changes. <i>Energy</i> , 2019, 187, 115938.	8.8	80
4	Wave energy trends over the Bay of Biscay and the consequences for wave energy converters. <i>Energy</i> , 2017, 141, 624-634.	8.8	54
5	Wave energy resource variation off the west coast of Ireland and its impact on realistic wave energy converters’ power absorption. <i>Applied Energy</i> , 2018, 224, 205-219.	10.1	50
6	Performance enhancement of the artificial neural network-based reinforcement learning for wind turbine yaw control. <i>Wind Energy</i> , 2020, 23, 676-690.	4.2	40
7	Sensitivity to the use of 3DVAR data assimilation in a mesoscale model for estimating offshore wind energy potential. A case study of the Iberian northern coastline. <i>Applied Energy</i> , 2016, 180, 617-627.	10.1	37
8	Using 3DVAR data assimilation to measure offshore wind energy potential at different turbine heights in the West Mediterranean. <i>Applied Energy</i> , 2017, 208, 1232-1245.	10.1	33
9	Historical Evolution of the Wave Resource and Energy Production off the Chilean Coast over the 20th Century. <i>Energies</i> , 2018, 11, 2289.	3.1	31
10	Combining random forests and physics-based models to forecast the electricity generated by ocean waves: A case study of the Mutriku wave farm. <i>Ocean Engineering</i> , 2019, 189, 106314.	4.3	28
11	Long-term changes in offshore wind power density and wind turbine capacity factor in the Iberian Peninsula (1900–2010). <i>Energy</i> , 2021, 226, 120364.	8.8	27
12	The Consequences of Air Density Variations over Northeastern Scotland for Offshore Wind Energy Potential. <i>Energies</i> , 2019, 12, 2635.	3.1	25
13	Seasonal Correction of Offshore Wind Energy Potential due to Air Density: Case of the Iberian Peninsula. <i>Sustainability</i> , 2019, 11, 3648.	3.2	25
14	Optimal Wind Turbine Operation by Artificial Neural Network-Based Active Gurney Flap Flow Control. <i>Sustainability</i> , 2019, 11, 2809.	3.2	25
15	Reduction of the capture width of wave energy converters due to long-term seasonal wave energy trends. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109267.	16.4	24
16	On the impact of long-term wave trends on the geometry optimisation of oscillating water column wave energy converters. <i>Energy</i> , 2020, 206, 118146.	8.8	24
17	Optimal strategies of deployment of far offshore co-located wind-wave energy farms. <i>Energy Conversion and Management</i> , 2022, 251, 114914.	9.2	24
18	MIDAS: A Benchmarking Multi-Criteria Method for the Identification of Defective Anemometers in Wind Farms. <i>Energies</i> , 2019, 12, 28.	3.1	23

#	ARTICLE	IF	CITATIONS
19	Pitch Angle Misalignment Correction Based on Benchmarking and Laser Scanner Measurement in Wind Farms. <i>Energies</i> , 2018, 11, 3357.	3.1	21
20	A Context-Aware Oil Debris-Based Health Indicator for Wind Turbine Gearbox Condition Monitoring. <i>Energies</i> , 2019, 12, 3373.	3.1	21
21	Impact of long-term resource variations on wave energy Farms: The Icelandic case. <i>Energy</i> , 2020, 192, 116609.	8.8	17
22	Multiple Roles for Analogies in the Genesis of Fluid Mechanics: How Analogies Can Cooperate with Other Heuristic Strategies. <i>Foundations of Science</i> , 2016, 21, 543-565.	0.7	14
23	Influence of local air flow regimes on the ozone content of two Pyrenean valleys. <i>Atmospheric Environment</i> , 2013, 74, 367-377.	4.1	13
24	Wave Energy Forecasting at Three Coastal Buoys in the Bay of Biscay. <i>IEEE Journal of Oceanic Engineering</i> , 2016, 41, 923-929.	3.8	9
25	Problem-Based Learning in University Studies on Renewable Energies: Case of a Laboratory Windpump. <i>Sustainability</i> , 2020, 12, 2495.	3.2	9
26	The power flow and the wave energy flux at an operational wave farm: Findings from Mutriku, Bay of Biscay. <i>Ocean Engineering</i> , 2021, 227, 108654.	4.3	9
27	Evaluation of Lebanon's Offshore-Wind-Energy Potential. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 361.	2.6	8
28	Extension and improvement of synchronous linear generator based point absorber operation in high wave excitation scenarios. <i>Ocean Engineering</i> , 2021, 239, 109844.	4.3	8
29	Novel on-field method for pitch error correction in wind turbines. <i>Energy Procedia</i> , 2017, 142, 9-16.	1.8	6
30	Seasonal Air Density Variations over The East of Scotland and The Consequences for Offshore Wind Energy. , 2018, , .		4
31	Calibration of Reanalysis Data against Wind Measurements for Energy Production Estimation of Building Integrated Savonius-Type Wind Turbine. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9017.	2.5	4
32	Long-Term Freezing Temperatures Frequency Change Effect on Wind Energy Gain (Eurasia and North) Tj ETQq0 0 0.rgBT /Overlock 10 Tf	3.2	4
33	The cognitive nexus between Bohr's analogy for the atom and Pauli's exclusion schema. <i>Endeavour</i> , 2016, 40, 56-64.	0.4	3
34	An Energy Potential Estimation Methodology and Novel Prototype Design for Building-Integrated Wind Turbines. <i>Energies</i> , 2019, 12, 2027.	3.1	3
35	The Sailor diagram "A new diagram for the verification of two-dimensional vector data from multiple models. <i>Geoscientific Model Development</i> , 2020, 13, 3221-3240.	3.6	3
36	Sensitivity Studies for a Hybrid Numerical"Statistical Short-Term Wind and Gust Forecast at Three Locations in the Basque Country (Spain). <i>Atmosphere</i> , 2020, 11, 45.	2.3	2

#	ARTICLE	IF	CITATIONS
37	Short-term forecasting of zonal and meridional wave energy flux in the Bay of Biscay using random forests. , 2015, , .		1
38	Calculation of Lebanon offshore wind energy potential using ERA5 reanalysis: impact of seasonal air density changes. , 2019, , .		1
39	Study of ocean and wind energy potential with R: an innovative experience in the classroom. , 0, , .		1
40	TEACHING RENEWABLE ENERGIES USING FREE SOFTWARE: A CASE STUDY WITH R APPLIED TO OCEAN ENERGY. EDULEARN Proceedings, 2016, , .	0.0	1
41	Using open software to teach resource assessment of solar thermal and geothermal energy. , 0, , .		1
42	Novel Method for the Identification of Defective Anemometers in Wind Farms. , 2018, , .		0
43	Analysis of Wells-type turbines's operational parameters during winter of 2014 at Mutriku wave farm. , 2019, , .		0
44	Helmholtz's Vortex Motion: An Embodied View of Mathematics in the Heuristics of Fluid Mechanics. Topoi, 2020, 39, 949-961.	1.3	0
45	The provocative analogy as pedagogical strategy: the historical case of fluid mechanics. Enseñanza De Las Ciencias, 2015, 33, 159.	0.3	0
46	Energetikaren historia, oinarriak eta ondorioak zibilizazioentzat. Gogoia (journal), 0, 14, 263-279.	0.0	0
47	TEACHING MARINE ENERGY WITH R. , 2016, , .		0
48	USING OPEN SOFTWARE TO TEACH RESOURCE ASSESSMENT OF RENEWABLE ENERGIES. EDULEARN Proceedings, 2017, , .	0.0	0
49	Using open software to teach resource assessment of renewable energies. , 0, , .		0
50	Activation of the Eddy Mental Schema, Multiple Analogies and Their Heuristic Cooperation in the Historical Development of Fluid Dynamics. Studies in Applied Philosophy, Epistemology and Rational Ethics, 2018, , 145-166.	0.3	0
51	USE OF QGIS OPEN SOFTWARE TO DEFINE THE LOCAL RENEWABLE ENERGY RESOURCES. A PROJECT BASED LEARNING EXPERIENCE. INTED Proceedings, 2018, , .	0.0	0
52	ROSEO: Novel Savonious-type BIWT Design based on the Concentration of Horizontal and Vertical Circulation of Wind on the Edge of Buildings. , 2019, , .		0