

# Eduardo Álvarez-Álvarez

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

385  
citations

933264

10  
h-index

839398

18  
g-index

44  
all docs

44  
docs citations

44  
times ranked

495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microgrid management with a quick response optimization algorithm for active power dispatch. International Journal of Electrical Power and Energy Systems, 2012, 43, 465-473.	3.3	62
2	An automatic data mining method to detect abnormal human behaviour using physical activity measurements. Pervasive and Mobile Computing, 2014, 15, 228-241.	2.1	38
3	Low-Cost System for Weld Tracking Based on Artificial Vision. IEEE Transactions on Industry Applications, 2011, 47, 1159-1167.	3.3	32
4	Design of a numerical model of lung by means of a special boundary condition in the truncated branches. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2830.	1.0	25
5	On-line minimization of running costs, greenhouse gas emissions and the impact of distributed generation using microgrids on the electrical system. , 2009, , .		20
6	Obtaining energy from tidal microturbines: A practical example in the Nalón River. Applied Energy, 2016, 183, 100-112.	5.1	20
7	Attenuation processes of solar radiation. Application to the quantification of direct and diffuse solar irradiances on horizontal surfaces in Mexico by means of an overall atmospheric transmittance. Renewable and Sustainable Energy Reviews, 2018, 81, 93-106.	8.2	18
8	Design and control strategies for a modular hydroKinetic smart grid. International Journal of Electrical Power and Energy Systems, 2018, 95, 137-145.	3.3	18
9	Design and evaluation of a heat recuperator for steel slags. Applied Thermal Engineering, 2013, 56, 11-17.	3.0	17
10	Design and characterization of a vertical-axis micro tidal turbine for low velocity scenarios. Energy Conversion and Management, 2021, 237, 114144.	4.4	17
11	Tidal current energy potential assessment by a two dimensional computational fluid dynamics model: The case of Avilés port (Spain). Energy Conversion and Management, 2016, 119, 239-245.	4.4	14
12	Small cross-flow turbine: Design and testing in high blockage conditions. Energy Conversion and Management, 2020, 213, 112863.	4.4	10
13	OCCAM: On-line cost-function based control algorithm for microgrids. Journal of Renewable and Sustainable Energy, 2012, 4, 033101.	0.8	9
14	Steel mill slags energy potential: the case of the steel factory of Arcelor-Mittal in Asturias (Spain). Clean Technologies and Environmental Policy, 2012, 14, 869-877.	2.1	9
15	A three dimensional in SILICO model for the simulation of inspiratory and expiratory airflow in humans. Engineering Applications of Computational Fluid Mechanics, 2015, 9, 187-198.	1.5	9
16	Advantages of incorporating Hygroscopic Cycle Technology to a 12.5-MW biomass power plant. Applied Thermal Engineering, 2018, 131, 320-327.	3.0	8
17	Tidal current energy potential assessment in the Avilés Port using a three-dimensional CFD method. Clean Technologies and Environmental Policy, 2019, 21, 1367-1380.	2.1	8
18	A Review of Software Tools to Study the Energetic Potential of Tidal Currents. Energies, 2019, 12, 1673.	1.6	6

#	ARTICLE	IF	CITATIONS
19	Hydrodynamic water tunnel for characterization of hydrokinetic microturbines designs. Clean Technologies and Environmental Policy, 2020, 22, 1843-1854.	2.1	6
20	Certification of Energy Efficiency in New Buildings: A Comparison Among the Different Climatic Zones of Spain. IEEE Transactions on Industry Applications, 2015, 51, 2726-2731.	3.3	5
21	Unobtrusive health monitoring system using video-based physiological information and activity measurements. , 2015, , .		4
22	Techno-Economic Analysis of Residential Water Meters: A Practical Example. Water Resources Management, 2020, 34, 2471-2484.	1.9	4
23	A Non-invasive and Autonomous Physical Activity Measurement System for the Elderly. , 2013, , .		3
24	Design and feasibility study of a microgeneration system to obtain renewable energy from tidal currents. Journal of Renewable and Sustainable Energy, 2014, 6, 033109.	0.8	3
25	Wind-Water Experimental Analysis of Small SC-Darrieus Turbine: An Approach for Energy Production in Urban Systems. Sustainability, 2021, 13, 5256.	1.6	3
26	Power Performance Assessment of Vertical-Axis Tidal Turbines Using an Experimental Test Rig. Energies, 2021, 14, 6686.	1.6	3
27	Certification of energy efficiency in new buildings. A comparative among the different climatic zones of Spain. , 2013, , .		2
28	Low Cost System for Weld Tracking Based on Artificial Vision. , 2009, , .		1
29	Control system to counteract axial displacement during the welding of huge pipes. International Journal of Advanced Manufacturing Technology, 2013, 69, 647-655.	1.5	1
30	Obtaining renewable energy from tidal currents in the Aviles port: New services for citizens. , 2013, , .		1
31	Simulations of hybrid system varying solar radiation and microturbine response time. AIP Advances, 2015, 5, 077110.	0.6	1
32	Assessment of building energy certification in Spain. Environmental Progress and Sustainable Energy, 2015, 34, 784-788.	1.3	1
33	A proposal of a modular hydroKinetic smart grid. , 2016, , .		1
34	A new methodology to calculate the cooling law of steel mill lamination coils. International Journal of Advanced Manufacturing Technology, 2018, 97, 1873-1884.	1.5	1
35	Tidal current energy potential of Nalón river estuary assessment using a high precision flow model. Open Engineering, 2018, 8, 118-123.	0.7	1
36	Estudio de viabilidad de la transformación parcial de una central de turbinado simple en reversible: el caso de la central hidráulica de La Barca (Asturias, España). IngenierAa Del Agua, 2017, 21, 1.	0.2	1

#	ARTICLE	IF	CITATIONS
37	An Evapotranspiration Evolution Model as a Function of Meteorological Variables: A CFD Model Approach. Sustainability, 2022, 14, 3800.	1.6	1
38	Methodology for the Study of the Air Dispersion of the Industrial Contaminants Taking into Account the Orography. Proceedings (mdpi), 2018, 2, .	0.2	0
39	Control and Monitoring System for Hydraulic Microturbines Test Benches. Proceedings (mdpi), 2018, 2, .	0.2	0
40	Evaluación del potencial energético de las corrientes de marea en la desembocadura del río Nalón (Asturias, España) mediante simulación de flujo unidimensional. Ingeniería Del Agua, 2015, 19, 31.	0.2	0
41	Water Tunnel to test and characterization of experimental designs of Hydrokinetics Turbines. Workrooms Journal, 2018, 1, .	0.0	0
42	Diseño de una metodología para cálculo de energía hidrocinética en estuarios: ejemplo de aplicación con el software IBER. Ingeniería Del Agua, 2021, 25, 271-286.	0.2	0
43	Modelización hidrológica de la cuenca alta del río Nalón (Asturias) para la determinación de recurso disponible destinado al abastecimiento de agua potable. Ingeniería Del Agua, 2022, 26, 125-138.	0.2	0