

# David Borge-Diez

## List of Publications by Year in descending order

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Version: 2024-02-01

93  
papers

1,650  
citations

318942

23  
h-index

371746

37  
g-index

103  
all docs

103  
docs citations

103  
times ranked

2114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis and proposal of energy planning and renewable energy plans in South America: Case study of Ecuador. <i>Renewable Energy</i> , 2022, 182, 314-342.	4.3	27
2	Energy sector in Ecuador for public lighting: Current status. <i>Energy Policy</i> , 2022, 160, 112684.	4.2	5
3	Water Energy Food Nexus Analysis and Management Tools: A Review. <i>Energies</i> , 2022, 15, 1146.	1.6	15
4	Stress Mitigation of Conventional Water Resources in Water-Scarce Areas Through the Use of Renewable Energy Powered Desalination Plants: An Application to the Canary Islands. <i>Green Energy and Technology</i> , 2022, , 137-153.	0.4	0
5	Photovoltaic Self-consumption and Net-Metering: Measures to Remove Economic Non-market Failure and Institutional Barriers that Restrict Their Use in Spain. <i>Green Energy and Technology</i> , 2022, , 63-83.	0.4	0
6	Review of Wind Energy Technology and Associated Market and Economic Conditions in Spain. <i>Green Energy and Technology</i> , 2022, , 45-62.	0.4	0
7	Surrogate Optimization of Coupled Energy Sources in a Desalination Microgrid Based on Solar PV and Wind Energy. <i>Green Energy and Technology</i> , 2022, , 85-117.	0.4	0
8	Sea Water Desalination in Microgrids. <i>Green Energy and Technology</i> , 2022, , .	0.4	1
9	Optimization of CSP Plants with Thermal Energy Storage for Electricity Price Stability in Spot Markets. <i>Energies</i> , 2022, 15, 1672.	1.6	9
10	Renewable energy driven heat pumps decarbonization potential in existing residential buildings: Roadmap and case study of Spain. <i>Energy</i> , 2022, 247, 123481.	4.5	18
11	Sustainability analyses of photovoltaic electrolysis and magnetic heat engine coupled novel system used for hydrogen production and electricity generation. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102094.	1.7	2
12	Geothermal Heat Pumps for Slurry Cooling and Farm Heating: Impact and Carbon Footprint Reduction in Pig Farms. <i>Sustainability</i> , 2022, 14, 5792.	1.6	7
13	Multi-parametric evaluation of electrical, biogas and natural gas geothermal source heat pumps. <i>Renewable Energy</i> , 2021, 163, 1682-1691.	4.3	15
14	Feasibility analysis of wind and solar powered desalination plants: An application to islands. <i>Science of the Total Environment</i> , 2021, 764, 142878.	3.9	22
15	Production Line: Process and Energy Modeling. <i>Green Energy and Technology</i> , 2021, , 43-95.	0.4	0
16	Introduction to Ceramic Sanitary-Ware Manufacturing. <i>Green Energy and Technology</i> , 2021, , 1-12.	0.4	1
17	Proposals Calculation. <i>Green Energy and Technology</i> , 2021, , 173-248.	0.4	0
18	Planning for Energy and Water Management. <i>Green Energy and Technology</i> , 2021, , 21-42.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Improvement Proposals. Green Energy and Technology, 2021, , 133-172.	0.4	0
20	Types of Factories by Casting Technology. Green Energy and Technology, 2021, , 13-20.	0.4	0
21	Exergoeconomic Analysis. Green Energy and Technology, 2021, , 271-301.	0.4	0
22	Energy Supply Versus Energy Demand. Green Energy and Technology, 2021, , 249-259.	0.4	0
23	Analysis of Consumptions. Green Energy and Technology, 2021, , 97-131.	0.4	0
24	Reduction of water and energy consumption in the sanitary ware industry by an absorption machine operated with recovered heat. Journal of Cleaner Production, 2021, 292, 126049.	4.6	3
25	Contribution of Driving Efficiency to Vehicle-to-Building. Energies, 2021, 14, 3483.	1.6	1
26	Proposal of 100% renewable energy production for the City of Cuenca- Ecuador by 2050. Renewable Energy, 2021, 170, 1324-1341.	4.3	32
27	Extended exergy analysis of a solar driven water production plant via reverse osmosis. Applied Thermal Engineering, 2021, 194, 117064.	3.0	4
28	Can eco-routing, eco-driving and eco-charging contribute to the European Green Deal? Case Study: The City of Alcalá de Henares (Madrid, Spain). Energy, 2021, 228, 120532.	4.5	7
29	Pico turbines, the solution to self-supply energy to the water supply network. A case study in Las Palmas de Gran Canaria. Energy, 2021, 229, 120653.	4.5	3
30	Investigating the potential of the slurry technology for sustainable pig farm heating. Energy, 2021, 234, 121258.	4.5	5
31	Comprehensive assessment of Gran Canaria water-energy-food nexus with GIS-based tool. Journal of Cleaner Production, 2021, 323, 129197.	4.6	4
32	Combined vehicle to building (V2B) and vehicle to home (V2H) strategy to increase electric vehicle market share. Energy, 2021, 237, 121608.	4.5	51
33	Thermal energy reduction in sanitary-ware industry by heat-recovering thermal engineering technologies. Energy Efficiency, 2021, 14, 1.	1.3	0
34	Technical challenges for the optimum penetration of grid-connected photovoltaic systems: Spain as a case study. Renewable Energy, 2020, 145, 2296-2305.	4.3	36
35	Stress mitigation of conventional water resources in water-scarce areas through the use of renewable energy powered desalination plants: An application to the Canary Islands. Energy Reports, 2020, 6, 124-135.	2.5	18
36	Application of rule-based expert systems in hardware-in-the-loop simulation case study: Software and performance validation of an engine electronic control unit. Journal of Software: Evolution and Process, 2020, 32, e2223.	1.2	3

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37	Modeling and Simulation of a Hybrid System of Solar Panels and Wind Turbines for the Supply of Autonomous Electrical Energy to Organic Architectures. <i>Energies</i> , 2020, 13, 4649.	1.6	11
38	Contribution of Driving Efficiency and Vehicle-to-Grid to Eco-Design. <i>Energies</i> , 2020, 13, 3997.	1.6	0
39	Study on Geospatial Distribution of the Efficiency and Sustainability of Different Energy-Driven Heat Pumps Included in Low Enthalpy Geothermal Systems in Europe. <i>Remote Sensing</i> , 2020, 12, 1093.	1.8	8
40	New improvements in existing combined-cycles: Exhaust gases treatment with amines and exhaust gas recirculation. <i>Energy Reports</i> , 2020, 6, 73-84.	2.5	3
41	Energy Supply of a Hybrid System of Biomass and Wind Turbines of the Pichacay Landfill Towards an Intelligent Network for the City of Cuenca-Ecuador. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 287-307.	0.5	3
42	Optimization of efficiency and sustainability in existing combined-cycle gas turbine power plant. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
43	Sanitary-ware factories: heat recovery strategies to optimize energy and water consumption. <i>Energy Procedia</i> , 2019, 157, 719-736.	1.8	6
44	Wind energy planning for a sustainable transition to a decarbonized generation scenario based on the opportunity cost of the wind energy: Spanish Iberian Peninsula as case study. <i>Energy Procedia</i> , 2019, 157, 1144-1163.	1.8	27
45	True power consumption labeling and mapping of the health system of the Castilla y LeÃ³n region in Spain by clustering techniques. <i>Energy Procedia</i> , 2019, 157, 1164-1181.	1.8	6
46	An expert judgement approach to determine measures to remove institutional barriers and economic non-market failures that restrict photovoltaic self-consumption deployment in Spain. <i>Solar Energy</i> , 2019, 180, 307-323.	2.9	23
47	Technical optimization of the energy supply in geothermal heat pumps. <i>Geothermics</i> , 2019, 81, 133-142.	1.5	28
48	Microgrids with energy storage systems as a means to increase power resilience: An application to office buildings. <i>Energy</i> , 2019, 172, 1005-1015.	4.5	86
49	Potential Sources of Renewable Energy for the Energy Supply in the City of Cuenca-Ecuador with Towards a Smart Grid. , 2019, , .		7
50	Impact of Demand Side Management (DSM) in the City of Cuenca on the Stage of a Smart City. , 2019, , .		1
51	Exergoeconomics in the sanitary-ware industry to reduce energy and water consumptions. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
52	Enhancing the efficiency of thermal hydrolysis process in wastewater treatment plants by the use of steam accumulation. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 3403-3418.	1.8	13
53	Reduction of water cost for an existing wind-energy-based desalination scheme: A preliminary configuration. <i>Energy</i> , 2019, 167, 548-560.	4.5	25
54	Heat recovery in sanitary-ware industry applied to water and energy saving by multi-effect distillation. <i>Journal of Cleaner Production</i> , 2019, 213, 1322-1336.	4.6	17

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55	Review of wind energy technology and associated market and economic conditions in Spain. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 415-427.	8.2	32
56	Measures to Remove Geothermal Energy Barriers in the European Union. <i>Energies</i> , 2018, 11, 3202.	1.6	11
57	Electrical Consumption Profile Clusterization: Spanish Castilla y León Regional Health Services Building Stock as a Case Study. <i>Environments - MDPI</i> , 2018, 5, 133.	1.5	4
58	Management tool to optimize energy and water consumption in the sanitary-ware industry. <i>Journal of Cleaner Production</i> , 2018, 197, 280-296.	4.6	21
59	Impact assessment of electric vehicles on islands grids: A case study for Tenerife (Spain). <i>Energy</i> , 2017, 120, 385-396.	4.5	27
60	Technical and socioeconomic impacts of malfunctioning waste management plants: A case study from Spain. , 2017, , .		0
61	Estimating the benefits of vehicle-to-home in islands: The case of the Canary Islands. <i>Energy</i> , 2017, 134, 311-322.	4.5	29
62	Energy performance assessment of a polygeneration plant in different weather conditions through simulation tools. <i>Energy and Buildings</i> , 2016, 124, 7-18.	3.1	22
63	District heating and cogeneration in the EU-28: Current situation, potential and proposed energy strategy for its generalisation. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 62, 621-639.	8.2	72
64	Energy-efficient three-phase bidirectional converter for grid-connected storage applications. <i>Energy Conversion and Management</i> , 2016, 127, 599-611.	4.4	23
65	Offshore wind energy: A review of the current status, challenges and future development in Spain. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 64, 1-18.	8.2	86
66	Distributed generation: A review of factors that can contribute most to achieve a scenario of DG units embedded in the new distribution networks. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 1130-1148.	8.2	139
67	Water canal use for the implementation and efficiency optimization of photovoltaic facilities: Tajo-Segura transfer scenario. <i>Solar Energy</i> , 2016, 126, 168-194.	2.9	29
68	Thermodynamic and exergoeconomic analysis of energy recovery system of biogas from a wastewater treatment plant and use in a Stirling engine. <i>Renewable Energy</i> , 2016, 88, 171-184.	4.3	53
69	The geothermal potential in Spain. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 865-886.	8.2	23
70	Evaluation of the cost of using power plant reject heat in low-temperature district heating and cooling networks. <i>Applied Energy</i> , 2016, 162, 892-907.	5.1	25
71	APPLICATION OF SERIOUS GAMES AS AN ACTIVE TEACHING METHODOLOGY FOR SKILLS LEARNING IN ENERGY ENGINEERING. , 2016, , .		0
72	District heating and cogeneration in the EU-28: Current situation, potential and proposed energy strategy for its generalisation. <i>Multidisciplinary Journal for Education, Social and Technological Sciences</i> , 2016, 3, 107.	0.8	1

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73	Scale model of a Very High Voltage alternating current Power Transmission Line integrated into a Smart Grid. , 2015, , .		2
74	Cogeneration and district heating networks: Measures to remove institutional and financial barriers that restrict their joint use in the AEU-28. Energy, 2015, 85, 403-414.	4.5	30
75	Reliability and management of isolated smart-grid with dual mode in remote places: Application in the scope of great energetic needs. International Journal of Electrical Power and Energy Systems, 2015, 73, 805-818.	3.3	20
76	Hybridization of concentrated solar power plants with biogas production systems as an alternative to premiums: The case of Spain. Renewable and Sustainable Energy Reviews, 2015, 47, 186-197.	8.2	36
77	Geothermal source heat pumps under energy services companies finance scheme to increase energy efficiency and production in stockbreeding facilities. Energy, 2015, 88, 821-836.	4.5	26
78	Planning Minimum Interurban Fast Charging Infrastructure for Electric Vehicles: Methodology and Application to Spain. Energies, 2014, 7, 1207-1229.	1.6	21
79	Smart grid investment and technology roadmap for power system planning. Case study for a distribution system operator: EAECSA. , 2014, , .		1
80	Solar thermal systems for high rise buildings with high consumption demand: Case study for a 5 star hotel in Sao Paulo, Brazil. Energy and Buildings, 2014, 69, 481-489.	3.1	26
81	Economic evaluation of solar thermal and photovoltaic cooling systems through simulation in different climatic conditions: An analysis in three different cities in Europe. Energy and Buildings, 2014, 70, 207-223.	3.1	73
82	Water consumption in solar parabolic trough plants: review and analysis of the southern Spain case. Renewable and Sustainable Energy Reviews, 2014, 34, 565-577.	8.2	22
83	Macro economic impact, reduction of fee deficit and profitability of a sustainable transport model based on electric mobility. Case study: City of León (Spain). Energy, 2014, 65, 303-318.	4.5	16
84	Solutions to reduce energy consumption in the management of large buildings. Energy and Buildings, 2013, 56, 66-77.	3.1	77
85	The impact of different grid regulatory scenarios on the development of renewable energy on islands: A comparative study and improvement proposals. Renewable Energy, 2013, 60, 302-312.	4.3	22
86	Impact of passive techniques and clean conditioning systems on comfort and economic feasibility in low-cost shelters. Energy and Buildings, 2013, 62, 414-426.	3.1	13
87	Parallel distribution transformer loss reductions: A proposed method and experimental validation. International Journal of Electrical Power and Energy Systems, 2013, 49, 170-180.	3.3	7
88	Passive climatization using a cool roof and natural ventilation for internally displaced persons in hot climates: Case study for Haiti. Building and Environment, 2013, 59, 116-126.	3.0	38
89	Experimental validation of a fully solar-driven triple-state absorption system in small residential buildings. Energy and Buildings, 2012, 55, 227-237.	3.1	22
90	Exergy efficiency analysis in buildings climatized with LiCl-H <sub>2</sub> O solar cooling systems that use swimming pools as heat sinks. Energy and Buildings, 2011, 43, 3161-3172.	3.1	37

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91	Application of Rule-Based Expert Systems and Dynamic-Link Libraries to Enhance Hardware-in-The-Loop Simulation Results. Journal of Software, 0, , 265-292.	0.6	2
92	Analysis of the energy-saving potential for heating of double skin glass-glass façades. Revista Facultad De Ingeniería, 0, , .	0.5	0
93	Experience report on the application of genetic algorithms to reduce costs of the software validation process in the automotive sector during an engine control unit project. Software Quality Journal, 0, , 1.	1.4	0