

# Gabriel Ibarra-Berastegi

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

1,538  
citations

279798

23  
h-index

315739

38  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal strategies of deployment of far offshore co-located wind-wave energy farms. Energy Conversion and Management, 2022, 251, 114914.	9.2	24
2	The power flow and the wave energy flux at an operational wave farm: Findings from Mutriku, Bay of Biscay. Ocean Engineering, 2021, 227, 108654.	4.3	9
3	Changes in the simulation of atmospheric instability over the Iberian Peninsula due to the use of 3DVAR data assimilation. Hydrology and Earth System Sciences, 2021, 25, 3471-3492.	4.9	1
4	Long-term changes in offshore wind power density and wind turbine capacity factor in the Iberian Peninsula (1900â€“2010). Energy, 2021, 226, 120364.	8.8	27
5	Problem-Based Learning in University Studies on Renewable Energies: Case of a Laboratory Windpump. Sustainability, 2020, 12, 2495.	3.2	9
6	Sensitivity Studies for a Hybrid Numericalâ€“Statistical Short-Term Wind and Gust Forecast at Three Locations in the Basque Country (Spain). Atmosphere, 2020, 11, 45.	2.3	2
7	Moisture Recycling over the Iberian Peninsula: The Impact of 3DVAR Data Assimilation. Atmosphere, 2020, 11, 19.	2.3	2
8	The Sailor diagram â€“ A new diagram for the verification of two-dimensional vector data from multiple models. Geoscientific Model Development, 2020, 13, 3221-3240.	3.6	3
9	Global estimations of wind energy potential considering seasonal air density changes. Energy, 2019, 187, 115938.	8.8	80
10	Reduction of the capture width of wave energy converters due to long-term seasonal wave energy trends. Renewable and Sustainable Energy Reviews, 2019, 113, 109267.	16.4	24
11	The Consequences of Air Density Variations over Northeastern Scotland for Offshore Wind Energy Potential. Energies, 2019, 12, 2635.	3.1	25
12	Seasonal Correction of Offshore Wind Energy Potential due to Air Density: Case of the Iberian Peninsula. Sustainability, 2019, 11, 3648.	3.2	25
13	Evaluation of Lebanonâ€™s Offshore-Wind-Energy Potential. Journal of Marine Science and Engineering, 2019, 7, 361.	2.6	8
14	Calculation of Lebanon offshore wind energy potential using ERA5 reanalysis: impact of seasonal air density changes. , 2019, , .		1
15	Combining random forests and physics-based models to forecast the electricity generated by ocean waves: A case study of the Mutriku wave farm. Ocean Engineering, 2019, 189, 106314.	4.3	28
16	Harmonized evaluation of daily precipitation downscaled using SDSM and WRF+WRFDA models over the Iberian Peninsula. Climate Dynamics, 2019, 53, 1413-1433.	3.8	17
17	Analysis of Wells-type turbinesâ€™ operational parameters during winter of 2014 at Mutriku wave farm. , 2019, , .		0
18	MIDAS: A Benchmarking Multi-Criteria Method for the Identification of Defective Anemometers in Wind Farms. Energies, 2019, 12, 28.	3.1	23

#	ARTICLE	IF	CITATIONS
19	Analysis of atmospheric thermodynamics using the R package aiRthermo. Computers and Geosciences, 2019, 122, 113-119.	4.2	11
20	COMBINING PRACTICALS AT A RESEARCH LABORATORY, VISITS TO FACILITIES AND HANDS-ON COMPUTER EXERCISES TO TEACH MARINE ENERGY. , 2019, , .		0
21	LEARNING BY PROJECTS IN THE REM ERASMUS MUNDUS MASTER: AN EDUCATIONAL EXPERIENCE WITH WIND AND WAVES. , 2019, , .		0
22	Moisture Balance Over the Iberian Peninsula According to a Regional Climate Model: The Impact of 3DVAR Data Assimilation. Journal of Geophysical Research D: Atmospheres, 2018, 123, 708-729.	3.3	8
23	Electricity production, capacity factor, and plant efficiency index at the Mutriku wave farm (2014â€“2016). Ocean Engineering, 2018, 147, 20-29.	4.3	87
24	Pitch Angle Misalignment Correction Based on Benchmarking and Laser Scanner Measurement in Wind Farms. Energies, 2018, 11, 3357.	3.1	21
25	Seasonal Air Density Variations over The East of Scotland and The Consequences for Offshore Wind Energy. , 2018, , .		4
26	Historical Evolution of the Wave Resource and Energy Production off the Chilean Coast over the 20th Century. Energies, 2018, 11, 2289.	3.1	31
27	Wave energy resource variation off the west coast of Ireland and its impact on realistic wave energy convertersâ€™ power absorption. Applied Energy, 2018, 224, 205-219.	10.1	50
28	USE OF QGIS OPEN SOFTWARE TO DEFINE THE LOCAL RENEWABLE ENERGY RESOURCES. A PROJECT BASED LEARNING EXPERIENCE. INTED Proceedings, 2018, , .	0.0	0
29	AIRTHERMO: AN R PACKAGE DESIGNED TO HELP STUDENTS UNDERSTANDING ATMOSPHERIC THERMODYNAMICS. EDULEARN Proceedings, 2018, , .	0.0	0
30	Using open source software in engineering studies to teach water operation & management. , 2017, , .		3
31	Wave energy trends over the Bay of Biscay and the consequences for wave energy converters. Energy, 2017, 141, 624-634.	8.8	54
32	Using 3DVAR data assimilation to measure offshore wind energy potential at different turbine heights in the West Mediterranean. Applied Energy, 2017, 208, 1232-1245.	10.1	33
33	UN EJEMPLO EDUCATIVO DEL USO DE SOFTWARE LIBRE EN UN MASTER DE INGENIERÍA INDUSTRIAL. Dyna (Spain), 2017, 92, 606-606.	0.2	2
34	EL USO DE LOS PROGRAMAS R Y EPANET PARA LA ENSEÑANZA EN LA GESTIÓN DEL AGUA A LOS INGENIEROS. Dyna Energia Y Sostenibilidad, 2017, 6, [13 p.]-[13 p.].	0.1	1
35	USING OPEN SOFTWARE TO TEACH RESOURCE ASSESSMENT OF RENEWABLE ENERGIES. EDULEARN Proceedings, 2017, , .	0.0	0
36	Climatology and temporal evolution of the atmospheric semidiurnal tide in presentâ€“day reanalyses. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4614-4626.	3.3	8

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37	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
38	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
39	TEACHING MARINE ENERGY WITH R. , 2016, , .		0
40	TEACHING RENEWABLE ENERGIES USING FREE SOFTWARE: A CASE STUDY WITH R APPLIED TO OCEAN ENERGY. <i>EDULEARN Proceedings</i> , 2016, , .	0.0	1
41	TEACHING MSC STUDENTS HOW TO HANDLE SATELLITE IMAGES FOR OCEANIC STUDIES USING R. <i>EDULEARN Proceedings</i> , 2016, , .	0.0	1
42	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
43	Multi-objective environmental model evaluation by means of multidimensional kernel density estimators: Efficient and multi-core implementations. <i>Environmental Modelling and Software</i> , 2015, 63, 123-136.	4.5	8
44	Comparison of the Main Features of the Zonally Averaged Surface Air Temperature as Represented by Reanalysis and AR4 Models. , 2015, , 227-237.		1
45	Itsas Energia irakasten Rrekin. <i>Ekaia (journal)</i> , 2015, , 27-37.	0.0	0
46	Comparison of the main characteristics of the daily zonally averaged surface air temperature as represented by reanalysis and seven CMIP3 models. <i>Theoretical and Applied Climatology</i> , 2013, 114, 417-436.	2.8	2
47	Coupled air-sea interaction patterns and surface heat flux feedback in the Bay of Biscay. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	5
48	Downscaling of surface moisture flux and precipitation in the Ebro Valley (Spain) using analogues and analogues followed by random forests and multiple linear regression. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 1895-1907.	4.9	86
49	Validation of IPCC AR4 models over the Iberian Peninsula. <i>Theoretical and Applied Climatology</i> , 2011, 103, 61-79.	2.8	56
50	Evaluating the impact of water supply strategies on p-xylene biodegradation performance in an organic media-based biofilter. <i>Journal of Hazardous Materials</i> , 2011, 185, 1019-1026.	12.4	16
51	Atmospheric tides over the Pyrenees: observational study and numerical simulation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 1263-1274.	2.7	4
52	Comparison of the Performance of Different Analog-Based Bayesian Probabilistic Precipitation Forecasts over Bilbao, Spain. <i>Monthly Weather Review</i> , 2010, 138, 3107-3119.	1.4	7
53	Biotechnology as an alternative for carbon disulfide treatment in air pollution control. <i>Environmental Reviews</i> , 2010, 18, 321-332.	4.5	20
54	The role of climatic variability on the short-term fluctuations of octopus captures at the Canary Islands. <i>Fisheries Research</i> , 2010, 102, 258-265.	1.7	23

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55	Preliminary Acclimation Strategies for Successful Startup in Conventional Biofilters. Journal of the Air and Waste Management Association, 2010, 60, 959-967.	1.9	17
56	Identification of redundant sensors in an air pollution network using cluster analysis and SOM. , 2010, , .		2
57	Assessing spatial variability of SO2 field as detected by an air quality network using Self-Organizing Maps, cluster, and Principal Component Analysis. Atmospheric Environment, 2009, 43, 3829-3836.	4.1	25
58	Modeling the removal of hemicellulose from cereal straw at lab-scale using self-organizing maps followed by multiple linear regression. Food and Bioproducts Processing, 2009, 87, 34-39.	3.6	1
59	Evaluation of statistical downscaling in short range precipitation forecasting. Atmospheric Research, 2009, 94, 448-461.	4.1	17
60	Using neural networks for short-term prediction of air pollution levels. , 2009, , .		7
61	Assessment of metal contamination in dredged sediments using fractionation and Self-Organizing Maps. Journal of Hazardous Materials, 2008, 151, 78-85.	12.4	38
62	From diagnosis to prognosis for forecasting air pollution using neural networks: Air pollution monitoring in Bilbao. Environmental Modelling and Software, 2008, 23, 622-637.	4.5	104
63	Rainfall yield characteristics of electrical storm observed in the Spanish Basque Country area during the period 1992â€“1996. Atmospheric Research, 2008, 89, 233-242.	4.1	7
64	Prediction of air pollution levels using neural networks: influence of spatial variability. , 2008, , .		1
65	Regression and multilayer perceptron-based models to forecast hourly O3 and NO2 levels in the Bilbao area. Environmental Modelling and Software, 2006, 21, 430-446.	4.5	202
66	Neural networks as a tool for control and management of a biological reactor for treating hydrogen sulphide. Bioprocess and Biosystems Engineering, 2006, 29, 129-136.	3.4	41
67	Short-term prediction of air pollution levels using neural networks. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	4
68	Traffic congestion and ozone precursor emissions in Bilbao (Spain). Environmental Science and Pollution Research, 2003, 10, 361-367.	5.3	14
69	Long-term changes of ozone and traffic in Bilbao. Atmospheric Environment, 2001, 35, 5581-5592.	4.1	34
70	Rise of moist plumes from tall stacks in turbulent and stratified atmospheres. Atmospheric Environment, 1997, 31, 253-269.	4.1	18
71	Using open software to teach resource assessment of renewable energies. , 0, , .		0
72	Satelite bidezko itsas gainazaleko tenperatura eta klorofila kontzentrazioen berreraikitzea. Azken hamarkadetako eta urtaroen zikloaren bilakaera Bizkaiko Golkoan. Ekaia (journal), 0, , 109-124.	0.0	0