

# Gabriel Ibarra-Berastegi

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

1,538  
citations

279487

23  
h-index

315357

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. <i>Energy Conversion and Management</i> , 2022, 251, 114914.   | 4.4 | 24        |
| 2  | 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.                                     | 1.9 | 9         |
| 3  | Changes in the simulation of atmospheric instability over the Iberian Peninsula due to the use of 3DVAR data assimilation. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3471-3492. | 1.9 | 1         |
| 4  | Long-term changes in offshore wind power density and wind turbine capacity factor in the Iberian Peninsula (1900â€“2010). <i>Energy</i> , 2021, 226, 120364.                                 | 4.5 | 27        |
| 5  | Problem-Based Learning in University Studies on Renewable Energies: Case of a Laboratory Windpump. <i>Sustainability</i> , 2020, 12, 2495.   | 1.6 | 9         |
| 6  | Sensitivity Studies for a Hybrid Numericalâ€“Statistical Short-Term Wind and Gust Forecast at Three Locations in the Basque Country (Spain). <i>Atmosphere</i> , 2020, 11, 45.               | 1.0 | 2         |
| 7  | Moisture Recycling over the Iberian Peninsula: The Impact of 3DVAR Data Assimilation. <i>Atmosphere</i> , 2020, 11, 19.  | 1.0 | 2         |
| 8  | The Sailor diagram â€“ A new diagram for the verification of two-dimensional vector data from multiple models. <i>Geoscientific Model Development</i> , 2020, 13, 3221-3240.                 | 1.3 | 3         |
| 9  | Global estimations of wind energy potential considering seasonal air density changes. <i>Energy</i> , 2019, 187, 115938.   | 4.5 | 80        |
| 10 | 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.                  | 8.2 | 24        |
| 11 | The Consequences of Air Density Variations over Northeastern Scotland for Offshore Wind Energy Potential. <i>Energies</i> , 2019, 12, 2635.  | 1.6 | 25        |
| 12 | Seasonal Correction of Offshore Wind Energy Potential due to Air Density: Case of the Iberian Peninsula. <i>Sustainability</i> , 2019, 11, 3648.   | 1.6 | 25        |
| 13 | Evaluation of Lebanonâ€™s Offshore-Wind-Energy Potential. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 361.   | 1.2 | 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. <i>Ocean Engineering</i> , 2019, 189, 106314. | 1.9 | 28        |
| 16 | Harmonized evaluation of daily precipitation downscaled using SDSM and WRF+WRFDA models over the Iberian Peninsula. <i>Climate Dynamics</i> , 2019, 53, 1413-1433.                           | 1.7 | 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. <i>Energies</i> , 2019, 12, 28.   | 1.6 | 23        |

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|----|---|-----|-----------|
| 19 | Analysis of atmospheric thermodynamics using the R package aiRthermo. Computers and Geosciences, 2019, 122, 113-119.  | 2.0 | 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. | 1.2 | 8         |
| 23 | Electricity production, capacity factor, and plant efficiency index at the Mutriku wave farm (2014â€“2016). Ocean Engineering, 2018, 147, 20-29.  | 1.9 | 87        |
| 24 | Pitch Angle Misalignment Correction Based on Benchmarking and Laser Scanner Measurement in Wind Farms. Energies, 2018, 11, 3357.  | 1.6 | 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.  | 1.6 | 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.                      | 5.1 | 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.  | 4.5 | 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.                         | 5.1 | 33        |
| 33 | UN EJEMPLO EDUCATIVO DEL USO DE SOFTWARE LIBRE EN UN MASTER DE INGENIERÍA INDUSTRIAL. Dyna (Spain), 2017, 92, 606-606.  | 0.1 | 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.                     | 1.2 | 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.                            | 5.1 | 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.   | 2.1 | 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.  | 1.9 | 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.                            | 1.9 | 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.                           | 1.3 | 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. | 1.9 | 86        |
| 49 | Validation of IPCC AR4 models over the Iberian Peninsula. <i>Theoretical and Applied Climatology</i> , 2011, 103, 61-79.   | 1.3 | 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.   | 6.5 | 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.  | 1.0 | 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.   | 0.5 | 7         |
| 53 | Biotechnology as an alternative for carbon disulfide treatment in air pollution control. <i>Environmental Reviews</i> , 2010, 18, 321-332.   | 2.1 | 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.   | 0.9 | 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.   | 0.9 | 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. | 1.9 | 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.             | 1.8 | 1         |
| 59 | Evaluation of statistical downscaling in short range precipitation forecasting. Atmospheric Research, 2009, 94, 448-461.  | 1.8 | 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.  | 6.5 | 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.                         | 1.9 | 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.                                | 1.8 | 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.                                   | 1.9 | 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.                                | 1.7 | 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.  | 2.7 | 14        |
| 69 | Long-term changes of ozone and traffic in Bilbao. Atmospheric Environment, 2001, 35, 5581-5592.   | 1.9 | 34        |
| 70 | Rise of moist plumes from tall stacks in turbulent and stratified atmospheres. Atmospheric Environment, 1997, 31, 253-269.  | 1.9 | 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         |