

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
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73
all docs

73
docs citations

73
times ranked

1561
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Regression and multilayer perceptron-based models to forecast hourly O3 and NO2 levels in the Bilbao area. <i>Environmental Modelling and Software</i> , 2006, 21, 430-446. | 1.9 | 202 |
| 2 | From diagnosis to prognosis for forecasting air pollution using neural networks: Air pollution monitoring in Bilbao. <i>Environmental Modelling and Software</i> , 2008, 23, 622-637. | 1.9 | 104 |
| 3 | 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 |
| 4 | Electricity production, capacity factor, and plant efficiency index at the Mutriku wave farm (2014-2016). <i>Ocean Engineering</i> , 2018, 147, 20-29. | 1.9 | 87 |
| 5 | 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 |
| 6 | Global estimations of wind energy potential considering seasonal air density changes. <i>Energy</i> , 2019, 187, 115938. | 4.5 | 80 |
| 7 | Validation of IPCC AR4 models over the Iberian Peninsula. <i>Theoretical and Applied Climatology</i> , 2011, 103, 61-79. | 1.3 | 56 |
| 8 | Wave energy trends over the Bay of Biscay and the consequences for wave energy converters. <i>Energy</i> , 2017, 141, 624-634. | 4.5 | 54 |
| 9 | 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. | 5.1 | 50 |
| 10 | Neural networks as a tool for control and management of a biological reactor for treating hydrogen sulphide. <i>Bioprocess and Biosystems Engineering</i> , 2006, 29, 129-136. | 1.7 | 41 |
| 11 | Assessment of metal contamination in dredged sediments using fractionation and Self-Organizing Maps. <i>Journal of Hazardous Materials</i> , 2008, 151, 78-85. | 6.5 | 38 |
| 12 | 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 |
| 13 | Long-term changes of ozone and traffic in Bilbao. <i>Atmospheric Environment</i> , 2001, 35, 5581-5592. | 1.9 | 34 |
| 14 | 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. | 5.1 | 33 |
| 15 | Historical Evolution of the Wave Resource and Energy Production off the Chilean Coast over the 20th Century. <i>Energies</i> , 2018, 11, 2289. | 1.6 | 31 |
| 16 | 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 |
| 17 | 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. | 4.5 | 27 |
| 18 | Assessing spatial variability of SO2 field as detected by an air quality network using Self-Organizing Maps, cluster, and Principal Component Analysis. <i>Atmospheric Environment</i> , 2009, 43, 3829-3836. | 1.9 | 25 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | The Consequences of Air Density Variations over Northeastern Scotland for Offshore Wind Energy Potential. <i>Energies</i> , 2019, 12, 2635. | 1.6 | 25 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | MIDAS: A Benchmarking Multi-Criteria Method for the Identification of Defective Anemometers in Wind Farms. <i>Energies</i> , 2019, 12, 28. | 1.6 | 23 |
| 25 | Pitch Angle Misalignment Correction Based on Benchmarking and Laser Scanner Measurement in Wind Farms. <i>Energies</i> , 2018, 11, 3357. | 1.6 | 21 |
| 26 | Biotechnology as an alternative for carbon disulfide treatment in air pollution control. <i>Environmental Reviews</i> , 2010, 18, 321-332. | 2.1 | 20 |
| 27 | Rise of moist plumes from tall stacks in turbulent and stratified atmospheres. <i>Atmospheric Environment</i> , 1997, 31, 253-269. | 1.9 | 18 |
| 28 | Evaluation of statistical downscaling in short range precipitation forecasting. <i>Atmospheric Research</i> , 2009, 94, 448-461. | 1.8 | 17 |
| 29 | Preliminary Acclimation Strategies for Successful Startup in Conventional Biofilters. <i>Journal of the Air and Waste Management Association</i> , 2010, 60, 959-967. | 0.9 | 17 |
| 30 | 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 |
| 31 | 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 |
| 32 | Traffic congestion and ozone precursor emissions in Bilbao (Spain). <i>Environmental Science and Pollution Research</i> , 2003, 10, 361-367. | 2.7 | 14 |
| 33 | Analysis of atmospheric thermodynamics using the R package aiRthermo. <i>Computers and Geosciences</i> , 2019, 122, 113-119. | 2.0 | 11 |
| 34 | 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 |
| 35 | Problem-Based Learning in University Studies on Renewable Energies: Case of a Laboratory Windpump. <i>Sustainability</i> , 2020, 12, 2495. | 1.6 | 9 |
| 36 | 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 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | 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 |
| 38 | Climatology and temporal evolution of the atmospheric semidiurnal tide in present-day reanalyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4614-4626. | 1.2 | 8 |
| 39 | Moisture Balance Over the Iberian Peninsula According to a Regional Climate Model: The Impact of 3DVAR Data Assimilation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 708-729. | 1.2 | 8 |
| 40 | Evaluation of Lebanon's Offshore-Wind-Energy Potential. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 361. | 1.2 | 8 |
| 41 | Rainfall yield characteristics of electrical storm observed in the Spanish Basque Country area during the period 1992-1996. <i>Atmospheric Research</i> , 2008, 89, 233-242. | 1.8 | 7 |
| 42 | Using neural networks for short-term prediction of air pollution levels. , 2009, , . | | 7 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Seasonal Air Density Variations over The East of Scotland and The Consequences for Offshore Wind Energy. , 2018, , . | | 4 |
| 47 | Short-term prediction of air pollution levels using neural networks. <i>WIT Transactions on Ecology and the Environment</i> , 2006, , . | 0.0 | 4 |
| 48 | Using open source software in engineering studies to teach water operation & management. , 2017, , . | | 3 |
| 49 | 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. | 1.3 | 3 |
| 50 | 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 |
| 51 | 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. | 1.0 | 2 |
| 52 | Moisture Recycling over the Iberian Peninsula: The Impact of 3DVAR Data Assimilation. <i>Atmosphere</i> , 2020, 11, 19. | 1.0 | 2 |
| 53 | Identification of redundant sensors in an air pollution network using cluster analysis and SOM. , 2010, , . | | 2 |
| 54 | UN EJEMPLO EDUCATIVO DEL USO DE SOFTWARE LIBRE EN UN MASTER DE INGENIERÍA INDUSTRIAL. <i>Dyna</i> (Spain), 2017, 92, 606-606. | 0.1 | 2 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | 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 |
| 56 | Calculation of Lebanon offshore wind energy potential using ERA5 reanalysis: impact of seasonal air density changes. , 2019, , . | | 1 |
| 57 | 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. | 1.9 | 1 |
| 58 | Prediction of air pollution levels using neural networks: influence of spatial variability. , 2008, , . | | 1 |
| 59 | Comparison of the Main Features of the Zonally Averaged Surface Air Temperature as Represented by Reanalysis and AR4 Models. , 2015, , 227-237. | | 1 |
| 60 | TEACHING RENEWABLE ENERGIES USING FREE SOFTWARE: A CASE STUDY WITH R APPLIED TO OCEAN ENERGY. EDULEARN Proceedings, 2016, , . | 0.0 | 1 |
| 61 | TEACHING MSC STUDENTS HOW TO HANDLE SATELLITE IMAGES FOR OCEANIC STUDIES USING R. EDULEARN Proceedings, 2016, , . | 0.0 | 1 |
| 62 | 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 |
| 63 | Analysis of Wells-type turbines™ operational parameters during winter of 2014 at Mutriku wave farm. , 2019, , . | | 0 |
| 64 | Itsas Energia irakasten Rrekin. Ekaia (journal), 2015, , 27-37. | 0.0 | 0 |
| 65 | TEACHING MARINE ENERGY WITH R. , 2016, , . | | 0 |
| 66 | USING OPEN SOFTWARE TO TEACH RESOURCE ASSESSMENT OF RENEWABLE ENERGIES. EDULEARN Proceedings, 2017, , . | 0.0 | 0 |
| 67 | Using open software to teach resource assessment of renewable energies. , 0, , . | | 0 |
| 68 | USE OF QGIS OPEN SOFTWARE TO DEFINE THE LOCAL RENEWABLE ENERGY RESOURCES. A PROJECT BASED LEARNING EXPERIENCE. INTED Proceedings, 2018, , . | 0.0 | 0 |
| 69 | AIRTHERMO: AN R PACKAGE DESIGNED TO HELP STUDENTS UNDERSTANDING ATMOSPHERIC THERMODYNAMICS. EDULEARN Proceedings, 2018, , . | 0.0 | 0 |
| 70 | COMBINING PRACTICALS AT A RESEARCH LABORATORY, VISITS TO FACILITIES AND HANDS-ON COMPUTER EXERCISES TO TEACH MARINE ENERGY. , 2019, , . | | 0 |
| 71 | LEARNING BY PROJECTS IN THE REM ERASMUS MUNDUS MASTER: AN EDUCATIONAL EXPERIENCE WITH WIND AND WAVES. , 2019, , . | | 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 |