Francisco J Jimenez-Hornero

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------------------------------|-----------|
| 1 | Influence of DEM resolution on drainage network extraction: A multifractal analysis. Geomorphology, 2015, 241, 243-254. | 2.6 | 76 |
| 2 | Multifractal analysis of axial maps applied to the study of urban morphology. Computers, Environment and Urban Systems, 2013, 38, 1-10. | 7.1 | 66 |
| 3 | Applying a simple methodology to assess historical soil erosion in olive orchards. Geomorphology, 2010, 114, 294-302. | 2.6 | 53 |
| 4 | DiedricAR: a mobile augmented reality system designed for the ubiquitous descriptive geometry learning. Multimedia Tools and Applications, 2016, 75, 9641-9663. | 3.9 | 45 |
| 5 | Using general-purpose computing on graphics processing units (GPGPU) to accelerate the ordinary kriging algorithm. Computers and Geosciences, 2014, 64, 1-6. | 4.2 | 40 |
| 6 | Multifractal analysis applied to the study of the accuracy of DEM-based stream derivation. Geomorphology, 2013, 197, 85-95. | 2.6 | 37 |
| 7 | Exploring the relationship between nitrogen dioxide and ground-level ozone by applying the joint multifractal analysis. Environmental Monitoring and Assessment, 2010, 167, 675-684. | 2.7 | 33 |
| 8 | Applying multifractality and the self-organized criticality theory to describe the temporal rainfall regimes in Andalusia (southern Spain). Hydrological Processes, 2008, 22, 295-308. | 2.6 | 31 |
| 9 | Selecting the best IDF model by using the multifractal approach. Hydrological Processes, 2013, 27, 433-443. | 2.6 | 31 |
| 10 | Influence of urban morphology on total noise pollution: Multifractal description. Science of the Total Environment, 2014, 472, 1-8. | 8.0 | 31 |
| 11 | Can complex networks describe the urban and rural tropospheric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>O</mml:mi></mml:mrow><mml:mrow><mm dynamics?. Chemosphere, 2019, 230, 59-66.</mm </mml:mrow></mml:msub></mml:mrow></mml:math | l:mn>3 <td>າmີີີ:mn></td> | າmີີີ:mn> |
| 12 | Continuous time random walks for analyzing the transport of a passive tracer in a single fissure. Water Resources Research, 2005, 41, . | 4.2 | 23 |
| 13 | Visibility graphs of ground-level ozone time series: A multifractal analysis. Science of the Total Environment, 2019, 661, 138-147. | 8.0 | 23 |
| 14 | Joint multifractal description of the relationship between wind patterns and land surface air temperature. Atmospheric Research, 2011, 99, 366-376. | 4.1 | 22 |
| 15 | Multifractal detrended fluctuation analysis of sheep livestock prices in origin. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 4466-4476. | 2.6 | 21 |
| 16 | Multifractal analysis of validated wind speed time series. Chaos, 2013, 23, 013133. | 2.5 | 20 |
| 17 | Multifractal detrended fluctuation analysis of temperature in Spain (1960–2019). Physica A: Statistical Mechanics and Its Applications, 2021, 578, 126118. | 2.6 | 19 |
| 18 | Multifractal analysis application to the characterization of fatty infiltration in Iberian and White pork sirloins. Meat Science, 2013, 93, 723-732. | 5.5 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Multifractal analysis of ground–level ozone concentrations at urban, suburban and rural background monitoring sites in Southwestern Iberian Peninsula. Atmospheric Pollution Research, 2013, 4, 229-237. | 3.8 | 18 |
| 20 | Proposal for estimating ground-level ozone concentrations at urban areas based on multivariate statistical methods. Atmospheric Environment, 2014, 90, 59-70. | 4.1 | 16 |
| 21 | time series in the Caribbean basin using visibility graphs. Atmospheric Pollution Research, 2021, 12, | 3.8 | 16 |
| 22 | Background PM10 atmosphere: In the seek of a multifractal characterization using complex networks. Journal of Aerosol Science, 2021, 155, 105777. | 3.8 | 16 |
| 23 | Multifractal analysis as a tool for validating a rainfall model. Hydrological Processes, 2008, 22, 2672-2688. | 2.6 | 15 |
| 24 | Description of the seasonal pattern in ozone concentration time series by using the strange attractor multifractal formalism. Environmental Monitoring and Assessment, 2010, 160, 229-236. | 2.7 | 15 |
| 25 | Joint multifractal analysis of the influence of temperature and nitrogen dioxide on tropospheric ozone. Stochastic Environmental Research and Risk Assessment, 2015, 29, 1881-1889. | 4.0 | 15 |
| 26 | Fractal and multifractal characterization of the scaling geometry of an urban bus-transport network. Computers, Environment and Urban Systems, 2017, 64, 229-238. | 7.1 | 13 |
| 27 | Joint multifractal analysis of air temperature, relative humidity and reference evapotranspiration in the middle zone of the Guadalquivir river valley. Agricultural and Forest Meteorology, 2019, 278, 107657. | 4.8 | 13 |
| 28 | Checking complex networks indicators in search of singular episodes of the photochemical smog. Chemosphere, 2020, 241, 125085. | 8.2 | 13 |
| 29 | Multiplex Visibility Graphs as a complementary tool for describing the relation between ground level O3 and No2. Atmospheric Pollution Research, 2020, 11, 205-212. | 3.8 | 13 |
| 30 | Obtaining Homogeneous Regions by Determining the Generalized Fractal Dimensions of Validated Daily Rainfall Data Sets. Water Resources Management, 2017, 31, 2333-2348. | 3.9 | 11 |
| 31 | Wet scavenging process of particulate matter (PM10): A multivariate complex network approach. Atmospheric Pollution Research, 2021, 12, 101095. | 3.8 | 11 |
| 32 | Multifractal fluctuations of the precipitation in Spain (1960–2019). Chaos, Solitons and Fractals, 2022, 157, 111909. | 5.1 | 11 |
| 33 | Numerical Study of the Natural Airflow in Greenhouses using a Two-dimensional Lattice Model. Biosystems Engineering, 2005, 91, 219-228. | 4.3 | 10 |
| 34 | Evaluation of linear and nonlinear sediment transport equations using hillslope morphology. Catena, 2005, 64, 272-280. | 5.0 | 10 |
| 35 | GIS design application for "Sierra Morena Honey―designation of origin. Computers and Electronics in Agriculture, 2008, 64, 307-317. | 7.7 | 10 |
| 36 | The influence of the geometry of idealised porous media on the simulated flow velocity: A multifractal description. Geoderma, 2009, 150, 196-201. | 5.1 | 10 |

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|----|--|-----|-----------|
| 37 | A sliding window-based algorithm for faster transformation of time series into complex networks. Chaos, 2019, 29, 103121. | 2.5 | 9 |
| 38 | Estimation of the role of obstacles in the downslope soil flow with a simple erosion model: the analytical solution and its approximation with the lattice Boltzmann model. Catena, 2004, 57, 261-275. | 5.0 | 8 |
| 39 | Modelling the effects of emergent vegetation on an open-channel flow using a lattice model. International Journal for Numerical Methods in Fluids, 2007, 55, 655-672. | 1.6 | 8 |
| 40 | MULTIFRACTAL DESCRIPTION OF SIMULATED FLOW VELOCITY IN IDEALISED POROUS MEDIA BY USING THE SANDBOX METHOD. Fractals, 2013, 21, 1350006. | 3.7 | 8 |
| 41 | Simulation of Tracer Dispersion in Porous Media Using Lattice Boltzmann and Random Walk Models. Vadose Zone Journal, 2005, 4, 310-316. | 2.2 | 7 |
| 42 | Multifractal analysis of flow velocity simulated with the lattice model approach in idealized threeâ€dimensional porous media. Water Resources Research, 2007, 43, . | 4.2 | 6 |
| 43 | A computer application for teaching and learning approximation and interpolation algorithms of curves. Computer Applications in Engineering Education, 2011, 19, 40-47. | 3.4 | 6 |
| 44 | The use of the exponentK(q)function to delimit homogeneous regions in regional frequency analysis of extreme annual daily rainfall. Hydrological Processes, 2015, 29, 139-151. | 2.6 | 6 |
| 45 | A description of water and sediment flow in the presence of obstacles with a two-dimensional, lattice BGK-cellular automata model. Water Resources Research, 2003, 39, . | 4.2 | 5 |
| 46 | Description of pollutant dispersion in an urban street canyon using a two-dimensional lattice model. Atmospheric Environment, 2007, 41, 221-226. | 4.1 | 5 |
| 47 | Simulation of longâ€ŧerm soil redistribution by tillage using a cellular automata model. Earth Surface Processes and Landforms, 2010, 35, 761-770. | 2.5 | 5 |
| 48 | Improving graph-based detection of singular events for photochemical smog agents. Chemosphere, 2020, 253, 126660. | 8.2 | 5 |
| 49 | The geometric characterization of mouldboard plough surfaces by using splines. Soil and Tillage Research, 2011, 112, 98-105. | 5.6 | 4 |
| 50 | Introducing a geographic information system as computer tool to apply the problemâ€based learning process in public buildings indoor routing. Computer Applications in Engineering Education, 2013, 21, 573-580. | 3.4 | 4 |
| 51 | Multifractal analysis application to the study of fat and its infiltration in Iberian ham: Influence of racial and feeding factors and type of slicing. Meat Science, 2019, 148, 55-63. | 5.5 | 4 |
| 52 | Description of sorbing tracers transport in fractured media using the lattice model approach. Journal of Contaminant Hydrology, 2005, 81, 187-204. | 3.3 | 3 |
| 53 | Description of the Daily Number of Rain-Free Hours Series from a Location in Southern Spain by Using the Multifractal Turbulence Formalism. Journal of Hydrologic Engineering - ASCE, 2008, 13, 987-991. | 1.9 | 3 |
| 54 | Evaluating a general sediment transport model for linear incisions under field conditions. Earth Surface Processes and Landforms, 2009, 34, 1852-1857. | 2.5 | 3 |

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| 55 | A Linux cluster of personal computers for the numerical simulation of natural airflows in greenhouses using a lattice model. Computers and Electronics in Agriculture, 2006, 52, 79-89. | 7.7 | 2 |
| 56 | An educational computer tool for simulating longâ€ŧerm soil erosion on agricultural landscapes. Computer Applications in Engineering Education, 2009, 17, 253-262. | 3.4 | 2 |
| 57 | Evaluation of the temporal scaling variability in forecasting ground-level ozone concentrations obtained from multiple linear regressions. Environmental Monitoring and Assessment, 2013, 185, 3853-3866. | 2.7 | 2 |
| 58 | Analysis of Air Mean Temperature Anomalies by Using Horizontal Visibility Graphs. Entropy, 2021, 23, 207. | 2.2 | 2 |
| 59 | Exploring the effects of the vegetation on passive tracer transport by using the multifractal analysis. Geoderma, 2010, 160, 126-130. | 5.1 | 1 |
| 60 | Digital Image Filtering Optimization Supporting Iberian Ham Quality Prediction. Foods, 2020, 9, 25. | 4.3 | 1 |
| 61 | MOBILE AUGMENTED REALITY SYSTEM APPLY TO DESCRIPTIVE GEOMETRY LEARNING. EDULEARN Proceedings, 2016, , . | 0.0 | 1 |
| 62 | Multifractal analysis of passive tracer transport in simulated skimming and wake interference flows. Physics of Fluids, 2007, 19, . | 4.0 | 0 |
| 63 | Numerical Study of the Transition Regime between the Skimming and Wake Interference Flows in a Water Flume by Using the Lattice-Model Approach. Journal of Hydraulic Engineering, 2008, 134, 274-279. | 1.5 | 0 |
| 64 | Plane geometry drawing tutorial. DYNA (Colombia), 2014, 81, 20-25. | 0.4 | 0 |