

Francisco J Jimenez-Hornero

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

962
citations

430874

18
h-index

526287

27
g-index

66
all docs

66
docs citations

66
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of DEM resolution on drainage network extraction: A multifractal analysis. <i>Geomorphology</i> , 2015, 241, 243-254.	2.6	76
2	Multifractal analysis of axial maps applied to the study of urban morphology. <i>Computers, Environment and Urban Systems</i> , 2013, 38, 1-10.	7.1	66
3	Applying a simple methodology to assess historical soil erosion in olive orchards. <i>Geomorphology</i> , 2010, 114, 294-302.	2.6	53
4	DiedricAR: a mobile augmented reality system designed for the ubiquitous descriptive geometry learning. <i>Multimedia Tools and Applications</i> , 2016, 75, 9641-9663.	3.9	45
5	Using general-purpose computing on graphics processing units (GPGPU) to accelerate the ordinary kriging algorithm. <i>Computers and Geosciences</i> , 2014, 64, 1-6.	4.2	40
6	Multifractal analysis applied to the study of the accuracy of DEM-based stream derivation. <i>Geomorphology</i> , 2013, 197, 85-95.	2.6	37
7	Exploring the relationship between nitrogen dioxide and ground-level ozone by applying the joint multifractal analysis. <i>Environmental Monitoring and Assessment</i> , 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). <i>Hydrological Processes</i> , 2008, 22, 295-308.	2.6	31
9	Selecting the best IDF model by using the multifractal approach. <i>Hydrological Processes</i> , 2013, 27, 433-443.	2.6	31
10	Influence of urban morphology on total noise pollution: Multifractal description. <i>Science of the Total Environment</i> , 2014, 472, 1-8.	8.0	31
11	Can complex networks describe the urban and rural tropospheric dynamics? <i>Chemosphere</i> , 2019, 230, 59-66.	8.2	26
12	Continuous time random walks for analyzing the transport of a passive tracer in a single fissure. <i>Water Resources Research</i> , 2005, 41, .	4.2	23
13	Visibility graphs of ground-level ozone time series: A multifractal analysis. <i>Science of the Total Environment</i> , 2019, 661, 138-147.	8.0	23
14	Joint multifractal description of the relationship between wind patterns and land surface air temperature. <i>Atmospheric Research</i> , 2011, 99, 366-376.	4.1	22
15	Multifractal detrended fluctuation analysis of sheep livestock prices in origin. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 4466-4476.	2.6	21
16	Multifractal analysis of validated wind speed time series. <i>Chaos</i> , 2013, 23, 013133.	2.5	20
17	Multifractal detrended fluctuation analysis of temperature in Spain (1960-2019). <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 578, 126118.	2.6	19
18	Multifractal analysis application to the characterization of fatty infiltration in Iberian and White pork sirloins. <i>Meat Science</i> , 2013, 93, 723-732.	5.5	18

#	ARTICLE	IF	CITATIONS
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 three-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 exponent $K(q)$ 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 long-term 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 problem-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 long-term 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