Juan Manuel Pastor Ruiz

List of Publications by Year
in descending order

40 papers	761 citations	623188 14 h-index	525886 27 g-index
44 all docs	44 docs citations	44 times ranked	973 citing authors

#	Article	IF	Citations
1	Super-Rough Dynamics on Tumor Growth. Physical Review Letters, 1998, 81, 4008-4011.	2.9	193
2	Weighted-Interaction Nestedness Estimator (WINE): A new estimator to calculate over frequency matrices. Environmental Modelling and Software, 2009, 24, 1342-1346.	1.9	91
3	Scaling in the aggregation dynamics of a magnetorheological fluid. Physical Review E, 2007, 76, 051403.	0.8	66
4	Shear rheology of fluid interfaces: Closing the gap between macro- and micro-rheology. Current Opinion in Colloid and Interface Science, 2018, 37, 33-48.	3.4	40
5	Magnetic Microwire Probes for the Magnetic Rod Interfacial Stress Rheometer. Langmuir, 2015, 31, 1410-1420.	1.6	31
6	Rough Growth and Morphological Instability of Compact Electrodeposits. Physical Review Letters, 1996, 76, 1848-1851.	2.9	28
7	Rethinking the logistic approach for population dynamics of mutualistic interactions. Journal of Theoretical Biology, 2014, 363, 332-343.	0.8	27
8	Removing interactions, rather than species, casts doubt on the high robustness of pollination networks. Oikos, 2016, 125, 526-534.	1.2	27
9	A magnetic rod interfacial shear rheometer driven by a mobile magnetic trap. Journal of Rheology, 2016, 60, 1095-1113.	1.3	25
10	Aggregation and disaggregation dynamics of sedimented and charged superparamagnetic micro-particles in water suspension. European Physical Journal E, 2011, 34, 36.	0.7	21
11	The architecture of weighted mutualistic networks. Oikos, 2012, 121, 1154-1162.	1.2	18
12	Robustness of Alpine Pollination Networks: Effects of Network Structure and Consequences for Endemic Plants. Arctic, Antarctic, and Alpine Research, 2014, 46, 568-580.	0.4	18
13	Core Microbiota in Central Lung Cancer With Streptococcal Enrichment as a Possible Diagnostic Marker. Archivos De Bronconeumologia, 2021, 57, 681-689.	0.4	18
14	Experimental characterization of hydration and pinning in bentonite clay, a swelling, heterogeneous, porous medium. Geoderma, 2006, 134, 295-305.	2.3	15
15	Ranking of critical species to preserve the functionality of mutualistic networks using the k-core decomposition. PeerJ, 2017, 5, e3321.	0.9	15
16	Effects of topology on robustness in ecological bipartite networks. Networks and Heterogeneous Media, 2012, 7, 429-440.	0.5	14
17	New dynamic scaling in increasing systems. Open Physics, 2007, 5, .	0.8	11
18	Dynamic Measurements with the Bicone Interfacial Shear Rheometer: Numerical Bench-Marking of Flow Field-Based Data Processing. Colloids and Interfaces, 2018, 2, 69.	0.9	9

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19	The stochastic stabilized Kuramoto-Sivashinsky equation: a model for compact electrodeposition growth. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 235, 464-468.	0.9	8
20	Relaxation time of the global order parameter on multiplex networks: The role of interlayer coupling in Kuramoto oscillators. Physical Review E, 2017, 96, 042312.	0.8	8
21	Finite resolution effects in the analysis of the scaling behavior of rough surfaces. Physical Review E, 2000, 61, 6015-6018.	0.8	7
22	Flow field-based data analysis in interfacial shear rheometry. Advances in Colloid and Interface Science, 2021, 288, 102332.	7.0	7
23	Instabilities in the growth of compact electrodeposits. Physica D: Nonlinear Phenomena, 1996, 96, 384-395.	1.3	6
24	Two-walks degree assortativity in graphs and networks. Applied Mathematics and Computation, 2017, 311, 262-271.	1.4	6
25	A General Model of Population Dynamics Accounting for Multiple Kinds of Interaction. Complexity, 2020, 2020, 1-14.	0.9	6
26	Implication of Different Tumor Biomarkers in Drug Resistance and Invasiveness in Primary and Metastatic Colorectal Cancer Cell Lines. Biomedicines, 2022, 10, 1083.	1.4	6
27	Small scale properties of the stochastic stabilized Kuramoto-Sivashinsky equation. Physica D: Nonlinear Phenomena, 1998, 113, 166-171.	1.3	5
28	Analytical solution to a nonseparable interaction model for a one-dimensional fluid of anisotropic molecules near a hard wall. Physical Review E, 1999, 59, 1957-1967.	0.8	5
29	Electrostatic and hydrodynamics effects in a sedimented magnetorheological suspension. Physical Review E, 2009, 80, 021405.	0.8	5
30	Inducing self-organized criticality in a network toy model by neighborhood assortativity. Physical Review E, 2016, 94, 052304.	0.8	5
31	BiconeDrag—A data processing application for the oscillating conical bob interfacial shear rheometer. Computer Physics Communications, 2019, 239, 184-196.	3.0	5
32	Anomalous consistency in Mild Cognitive Impairment: A complex networks approach. Chaos, Solitons and Fractals, 2015, 70, 144-155.	2.5	4
33	On one-dimensional fluids of anisotropic molecules near a hard wall. Molecular Physics, 1993, 79, 709-720.	0.8	3
34	Dragging in mutualistic networks. Networks and Heterogeneous Media, 2015, 10, 37-52.	0.5	3
35	A Structural Approach to Disentangle the Visualization of Bipartite Biological Networks. Complexity, 2018, 2018, 1-11.	0.9	2
36	Study of a factored general logistic model of population dynamics with inter- and intraspecific interactions. Ecological Modelling, 2021, 444, 109475.	1.2	1

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37	BiconeDrag updated â€" A data processing application for the oscillating conical bob interfacial shear rheometer. Computer Physics Communications, 2021, 267, 108074.	3.0	1
38	A simple and bounded model of population dynamics for mutualistic networks. Networks and Heterogeneous Media, 2015, 10, 53-70.	0.5	1
39	Markov chain approach to anomalous diffusion on Newmanâ€"Watts networks. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 043301.	0.9	0
40	Dynamic Measurements with the Bicone Interfacial Shear Rheometer: The Effects of the Numerical Implementation of the Interfacial Boundary Condition. Colloids and Interfaces, 2021, 5, 17.	0.9	0