

Carolina Mendoza

List of Publications by Year in descending order

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19
papers

649
citations

687363

13
h-index

839539

18
g-index

19
all docs

19
docs citations

19
times ranked

387
citing authors

#	ARTICLE	IF	CITATIONS
1	Lagrangian descriptors: A method for revealing phase space structures of general time dependent dynamical systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 3530-3557.	3.3	171
2	Hidden Geometry of Ocean Flows. <i>Physical Review Letters</i> , 2010, 105, 038501.	7.8	113
3	Heat transfer performance and melting dynamic of a phase change material subjected to thermocapillary effects. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 501-510.	4.8	53
4	Review Article: "The Lagrangian description of aperiodic flows: a case study of the Kuroshio Current". <i>Nonlinear Processes in Geophysics</i> , 2012, 19, 449-472.	1.3	41
5	Enhancement of heat transfer rate on phase change materials with thermocapillary flows. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1169-1176.	2.6	39
6	Lagrangian descriptors and the assessment of the predictive capacity of oceanic data sets. <i>Nonlinear Processes in Geophysics</i> , 2014, 21, 677-689.	1.3	31
7	Chaos suppression through asymmetric coupling. <i>Chaos</i> , 2007, 17, 043107.	2.5	30
8	The turnstile mechanism across the Kuroshio current: analysis of dynamics in altimeter velocity fields. <i>Nonlinear Processes in Geophysics</i> , 2010, 17, 103-111.	1.3	29
9	Convective instabilities of synchronization manifolds in spatially extended systems. <i>Physical Review E</i> , 2004, 69, 047202.	2.1	26
10	A dynamical systems approach to the surface search for debris associated with the disappearance of flight MH370. <i>Nonlinear Processes in Geophysics</i> , 2015, 22, 701-712.	1.3	26
11	Synchronization of spatially extended chaotic systems in the presence of asymmetric coupling. <i>Physical Review E</i> , 2004, 70, 036219.	2.1	19
12	Introducing a new concept for enhanced micro-energy harvesting of thermal fluctuations through the Marangoni effect. <i>Applied Energy</i> , 2022, 306, 117966.	10.1	17
13	Heat transfer performance and thermal energy storage in nano-enhanced phase change materials driven by thermocapillarity. <i>International Communications in Heat and Mass Transfer</i> , 2021, 129, 105672.	5.6	17
14	ROLE OF REFRACTORY PERIOD IN HOMOCLINIC MODELS OF NEURAL SYNCHRONIZATION. <i>International Journal of Neural Systems</i> , 2007, 17, 79-86.	5.2	12
15	Scaling laws during melting driven by thermocapillarity. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120462.	4.8	10
16	Defect-enhanced anomaly in frequency synchronization of asymmetrically coupled spatially extended systems. <i>Physical Review E</i> , 2005, 71, 025201.	2.1	9
17	Synchronization of spatially extended chaotic systems with asymmetric coupling. <i>Brazilian Journal of Physics</i> , 2005, 35, 411.	1.4	4
18	Pinning control of spatiotemporal chaos in the LCLV device. <i>Mathematical Biosciences and Engineering</i> , 2007, 4, 523-530.	1.9	2

#	ARTICLE	IF	CITATIONS
19	ANOMALOUS SYNCHRONIZATION OF SPATIALLY EXTENDED CHAOTIC SYSTEMS IN THE PRESENCE OF ASYMMETRIC COUPLING. Fluctuation and Noise Letters, 2005, 05, L251-L258.	1.5	0