Carolina Mendoza

List of Publications by Year
in descending order

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	Introducing a new concept for enhanced micro-energy harvesting of thermal fluctuations through the Marangoni effect. Applied Energy, 2022, 306, 117966.	10.1	17
2	Heat transfer performance and thermal energy storage in nano-enhanced phase change materials driven by thermocapillarity. International Communications in Heat and Mass Transfer, 2021, 129, 105672.	5.6	17
3	Scaling laws during melting driven by thermocapillarity. International Journal of Heat and Mass Transfer, 2020, 163, 120462.	4.8	10
4	Heat transfer performance and melting dynamic of a phase change material subjected to thermocapillary effects. International Journal of Heat and Mass Transfer, 2017, 109, 501-510.	4.8	53
5	Enhancement of heat transfer rate on phase change materials with thermocapillary flows. European Physical Journal: Special Topics, 2017, 226, 1169-1176.	2.6	39
6	A dynamical systems approach to the surface search for debris associated with the disappearance of flight MH370. Nonlinear Processes in Geophysics, 2015, 22, 701-712.	1.3	26
7	Lagrangian descriptors and the assessment of the predictive capacity of oceanic data sets. Nonlinear Processes in Geophysics, 2014, 21, 677-689.	1.3	31
8	Lagrangian descriptors: A method for revealing phase space structures of general time dependent dynamical systems. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 3530-3557.	3.3	171
9	Review Article: &quot;The Lagrangian description of aperiodic flows: a case study of the Kuroshio Current&quot;. Nonlinear Processes in Geophysics, 2012, 19, 449-472.	1.3	41
10	Hidden Geometry of Ocean Flows. Physical Review Letters, 2010, 105, 038501.	7.8	113
11	The turnstile mechanism across the Kuroshio current: analysis of dynamics in altimeter velocity fields. Nonlinear Processes in Geophysics, 2010, 17, 103-111.	1.3	29
12	ROLE OF REFRACTORY PERIOD IN HOMOCLINIC MODELS OF NEURAL SYNCHRONIZATION. International Journal of Neural Systems, 2007, 17, 79-86.	5.2	12
13	Chaos suppression through asymmetric coupling. Chaos, 2007, 17, 043107.	2.5	30
14	Pinning control of spatiotemporal chaos in the LCLV device. Mathematical Biosciences and Engineering, 2007, 4, 523-530.	1.9	2
15	Synchronization of spatially extended chaotic systems with asymmetric coupling. Brazilian Journal of Physics, 2005, 35, 411.	1.4	4
16	Defect-enhanced anomaly in frequency synchronization of asymmetrically coupled spatially extended systems. Physical Review E, 2005, 71, 025201.	2.1	9
17	ANOMALOUS SYNCHRONIZATION OF SPATIALLY EXTENDED CHAOTIC SYSTEMS IN THE PRESENCE OF ASYMMETRIC COUPLING. Fluctuation and Noise Letters, 2005, 05, L251-L258.	1.5	0
18	Synchronization of spatially extended chaotic systems in the presence of asymmetric coupling. Physical Review E, 2004, 70, 036219.	2.1	19

#	Article	IF	Citations
19	Convective instabilities of synchronization manifolds in spatially extended systems. Physical Review E, 2004, 69, 047202.	2.1	26