

Santiago Madruga

List of Publications by Year in descending order

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30
papers

753
citations

643344

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30
times ranked

674
citing authors

#	ARTICLE	IF	CITATIONS
1	Introducing a new concept for enhanced micro-energy harvesting of thermal fluctuations through the Marangoni effect. <i>Applied Energy</i> , 2022, 306, 117966.	5.1	17
2	Efficient Thermoelectric Transformation of Daily Thermal Fluctuations into Electricity. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 701, 012082.	0.2	4
3	Effect of the inclination angle on the transient melting dynamics and heat transfer of a phase change material. <i>Physics of Fluids</i> , 2021, 33, .	1.6	9
4	Modeling of enhanced micro-energy harvesting of thermal ambient fluctuations with metallic foams embedded in Phase Change Materials. <i>Renewable Energy</i> , 2021, 168, 424-437.	4.3	35
5	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.	2.9	17
6	Scaling laws during melting driven by thermocapillarity. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120462.	2.5	10
7	Thermoelectric energy harvesting in aircraft with porous phase change materials. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 354, 012123.	0.2	12
8	Experimental and numerical study of melting of the phase change material tetracosane. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 163-170.	2.9	34
9	Dynamic of plumes and scaling during the melting of a Phase Change Material heated from below. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 206-220.	2.5	40
10	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.	2.5	53
11	Enhancement of heat transfer rate on phase change materials with thermocapillary flows. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1169-1176.	1.2	39
12	Melting dynamics of a phase change material (PCM) with dispersed metallic nanoparticles using transport coefficients from empirical and mean field models. <i>Applied Thermal Engineering</i> , 2017, 124, 1123-1133.	3.0	46
13	Free surface liquid films of binary mixtures. Two-dimensional steady structures at off-critical compositions. <i>Physics of Fluids</i> , 2016, 28, 032108.	1.6	1
14	Two-dimensional steady states in off-critical mixtures with high interface tension. <i>European Physical Journal: Special Topics</i> , 2013, 219, 3-12.	1.2	1
15	Convective instabilities in films of binary mixtures. <i>European Physical Journal: Special Topics</i> , 2011, 192, 101-108.	1.2	2
16	Decomposition driven interface evolution for layers of binary mixtures. II. Influence of convective transport on linear stability. <i>Physics of Fluids</i> , 2009, 21, .	1.6	30
17	Hexagons and spiral defect chaos in non-Boussinesq convection at low Prandtl numbers. <i>Physical Review E</i> , 2007, 75, 026210.	0.8	11
18	Multiple attractors, long chaotic transients, and failure in small-world networks of excitable neurons. <i>Chaos</i> , 2007, 17, 026110.	1.0	59

#	ARTICLE	IF	CITATIONS
19	Homology and symmetry breaking in Rayleigh-B�nard convection: Experiments and simulations. <i>Physics of Fluids</i> , 2007, 19, 117105.	1.6	27
20	Decomposition driven interface evolution for layers of binary mixtures. I. Model derivation and stratified base states. <i>Physics of Fluids</i> , 2007, 19, .	1.6	57
21	Reentrant and whirling hexagons in non-Boussinesq convection. <i>European Physical Journal: Special Topics</i> , 2007, 146, 279-290.	1.2	1
22	Re-entrant hexagons in non-Boussinesq convection. <i>Journal of Fluid Mechanics</i> , 2006, 548, 341.	1.4	14
23	Geometric diagnostics of complex patterns: Spiral defect chaos. <i>Chaos</i> , 2006, 16, 013125.	1.0	10
24	Defect Chaos and Bursts: Hexagonal Rotating Convection and the Complex Ginzburg-Landau Equation. <i>Physical Review Letters</i> , 2006, 96, 074501.	2.9	10
25	Hydrothermal waves and corotating rolls in laterally heated convection in simple liquids. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2004, 29, .	2.4	10
26	HEXAGONAL PATTERNS IN A MODEL FOR ROTATING CONVECTION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004, 14, 107-117.	0.7	3
27	Instabilities in two-liquid layers subject to a horizontal temperature gradient. <i>Theoretical and Computational Fluid Dynamics</i> , 2004, 18, 277-284.	0.9	21
28	Convective instabilities in two superposed horizontal liquid layers heated laterally. <i>Physical Review E</i> , 2003, 68, 041607.	0.8	36
29	EFFECT OF A VARIABLE DELAY IN DELAYED DYNAMICAL SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 2875-2880.	0.7	16
30	Discovery of a Low-Mass Brown Dwarf Companion of the Young Nearby Star G 196-3 , 1998, 282, 1309-1312.		128