

Josã© Marã-a Ortiz de Zãrate

List of Publications by Year in descending order

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55
papers

1,338
citations

304368

22
h-index

360668

35
g-index

55
all docs

55
docs citations

55
times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-dependent thermal properties of solid/liquid phase change even-numbered n-alkanes: n-Hexadecane, n-octadecane and n-eicosane. Applied Energy, 2015, 143, 383-394.	5.1	224
2	Thermal conductivity of carbon nanotubes and graphene in epoxy nanofluids and nanocomposites. Nanoscale Research Letters, 2011, 6, 610.	3.1	99
3	Thermal properties of n-pentadecane, n-heptadecane and n-nonadecane in the solid/liquid phase change region. International Journal of Thermal Sciences, 2015, 94, 139-146.	2.6	77
4	Measurement of the thermal conductivity of nanofluids by the multicurrent hot-wire method. Journal of Applied Physics, 2008, 104, .	1.1	65
5	On the Physical Origin of Long-Ranged Fluctuations in Fluids in Thermal Nonequilibrium States. Journal of Statistical Physics, 2004, 115, 1341-1359.	0.5	51
6	Impact of Thermodiffusion on the Initial Vertical Distribution of Species in Hydrocarbon Reservoirs. Microgravity Science and Technology, 2016, 28, 79-86.	0.7	42
7	Dynamics of fluctuations in a fluid below the onset of Rayleigh-BÃ©nard convection. Physical Review E, 2004, 69, 021106.	0.8	39
8	Nonequilibrium Casimir-like Forces in Liquid Mixtures. Physical Review Letters, 2015, 115, 035901.	2.9	37
9	Steady states in membrane distillation: influence of membrane wetting. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 4333-4338.	1.7	35
10	Fickian Diffusion in Ternary Mixtures Composed by 1,2,3,4-Tetrahydronaphthalene, Isobutylbenzene, and <i>n</i> -Dodecane. Journal of Physical Chemistry B, 2016, 120, 535-548.	1.2	33
11	Nonequilibrium fluctuations in the Rayleigh-BÃ©nard problem for binary fluid mixtures. European Physical Journal E, 2004, 15, 319-333.	0.7	32
12	Thermodiffusion in multicomponent n-alkane mixtures. Npj Microgravity, 2017, 3, 20.	1.9	32
13	Long-wavelength nonequilibrium concentration fluctuations induced by the Soret effect. Physical Review E, 2006, 74, 046305.	0.8	29
14	The NEUF-DIX space project - Non-Equilibrium Fluctuations during Diffusion in complex liquids. European Physical Journal E, 2016, 39, 119.	0.7	28
15	Physical origin of nonequilibrium fluctuation-induced forces in fluids. Physical Review E, 2016, 93, 012148.	0.8	27
16	Measurement of the thermal conductivity of clays used in pelotherapy by the multi-current hot-wire technique. Applied Clay Science, 2010, 50, 423-426.	2.6	26
17	Slowing-down of non-equilibrium concentration fluctuations in confinement. Europhysics Letters, 2015, 111, 60013.	0.7	26
18	Temperature polarization in non-isothermal mass transport through membranes. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2891-2896.	1.7	25

#	ARTICLE	IF	CITATIONS
19	Separation of water and glycols by direct contact membrane distillation. <i>Journal of Membrane Science</i> , 1999, 158, 155-165.	4.1	24
20	Boundary effects on the nonequilibrium structure factor of fluids below the Rayleigh-BÃ©nard instability. <i>Physical Review E</i> , 2002, 66, 036305.	0.8	24
21	Mesoscopic non-equilibrium thermodynamics of non-isothermal reaction-diffusion. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12780.	1.3	24
22	Propagating modes in a binary liquid mixture under thermal stress. <i>Physical Review E</i> , 2019, 99, 012602.	0.8	23
23	Analysis of Non-Equilibrium Fluctuations In A Ternary Liquid Mixture. <i>Microgravity Science and Technology</i> , 2016, 28, 611-619.	0.7	22
24	Non-equilibrium fluctuations induced by the Soret effect in a ternary mixture. <i>European Physical Journal E</i> , 2014, 37, 34.	0.7	21
25	Fluctuation-induced pressures in fluids in thermal nonequilibrium steady states. <i>Physical Review E</i> , 2014, 89, 022145.	0.8	20
26	Dynamic analysis of the light scattered by the non-equilibrium fluctuations of a ternary mixture of polystyrene-toluene-n-hexane. <i>European Physical Journal E</i> , 2017, 40, 35.	0.7	16
27	Thermal conductivity and density of clay pastes at various water contents for pelotherapy use. <i>Applied Clay Science</i> , 2014, 93-94, 23-27.	2.6	15
28	Non-equilibrium concentration fluctuations in binary liquids with realistic boundary conditions. <i>European Physical Journal E</i> , 2015, 38, 99.	0.7	15
29	Nonequilibrium fluctuation-induced Casimir pressures in liquid mixtures. <i>Physical Review E</i> , 2016, 93, 032117.	0.8	15
30	Thermal Fluctuations in Non-Equilibrium Thermodynamics. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2007, 32, .	2.4	14
31	Giant Fluctuations Induced by Thermal Diffusion in Complex Liquids. <i>Microgravity Science and Technology</i> , 2020, 32, 873-887.	0.7	14
32	Fluctuating hydrodynamics and concentration fluctuations in ternary mixtures. <i>Comptes Rendus - Mecanique</i> , 2013, 341, 399-404.	2.1	13
33	Confinement effect on the dynamics of non-equilibrium concentration fluctuations far from the onset of convection. <i>European Physical Journal E</i> , 2016, 39, 120.	0.7	13
34	Gravity effects on Soret-induced non-equilibrium fluctuations in ternary mixtures. <i>European Physical Journal E</i> , 2017, 40, 22.	0.7	13
35	Nonequilibrium Concentration Fluctuations in Binary Liquid Systems Induced by the Soret Effect. <i>Lecture Notes in Physics</i> , 2002, , 121-145.	0.3	12
36	Concentration fluctuations in nonisothermal reaction-diffusion systems. <i>Journal of Chemical Physics</i> , 2007, 127, 034501.	1.2	12

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37	Definition of frame-invariant thermodiffusion and Soret coefficients for ternary mixtures. European Physical Journal E, 2019, 42, 43.	0.7	12
38	Transverse-velocity fluctuations in a liquid under steady shear. Physical Review E, 2008, 77, 026306.	0.8	11
39	Jarzynski's equality illustrated by simple examples. European Journal of Physics, 2010, 31, 1097-1106.	0.3	11
40	Concentration fluctuations in non-isothermal reaction-diffusion systems. II. The nonlinear case. Journal of Chemical Physics, 2011, 135, 124516.	1.2	11
41	Hydrodynamic Fluctuations in Laminar Fluid Flow. I. Fluctuating Orr-Sommerfeld Equation. Journal of Statistical Physics, 2011, 144, 774-792.	0.5	11
42	Nonequilibrium velocity fluctuations and energy amplification in planar Couette flow. Physical Review E, 2009, 79, 046308.	0.8	9
43	Interview with Michael E. Fisher. Europhysics News, 2011, 42, 14-16.	0.1	9
44	Hydrodynamic Fluctuations in Laminar Fluid Flow. II. Fluctuating Squire Equation. Journal of Statistical Physics, 2013, 150, 540-558.	0.5	7
45	Thermal conductivity of water Ih-ice measured with transient hot-wires of different lengths. Applied Thermal Engineering, 2019, 149, 788-797.	3.0	6
46	Comment on "Shear-induced quench of long-range correlations in a liquid mixture". Physical Review E, 2006, 73, 013201.	0.8	3
47	Non-equilibrium Fluctuations in a Ternary Mixture Subjected to a Temperature Gradient. Journal of Statistical Physics, 2020, 181, 1-18.	0.5	3
48	Spatial correlations in nonequilibrium reaction-diffusion problems by the Gillespie algorithm. Physical Review E, 2013, 87, 052802.	0.8	2
49	Topical issue on non-isothermal transport in complex fluids. European Physical Journal E, 2017, 40, 51.	0.7	2
50	SCCO: Thermodiffusion for the Oil and Gas Industry. Research for Development, 2019, , 171-190.	0.2	2
51	Low-Frequency Velocity Correlation Spectrum of Fluid in a Rectangular Microcapillary. Langmuir, 2007, 23, 11917-11923.	1.6	1
52	Nonisothermal diffusion reaction with nonlinear Kramers kinetics. Comptes Rendus - Mecanique, 2011, 339, 287-291.	2.1	1
53	Coastline Changes from Melting Ice Sheets. Physics Today, 2005, 58, 12-12.	0.3	0
54	The passing of Juan I. Mengual. Journal of Membrane Science, 2006, 283, 1.	4.1	0

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55	The Darío Bacas goniobarimeter: building a balance based on properties of the cycloid. Physics Education, 2010, 45, 475-480.	0.3	0