

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
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55
all docs

55
docs citations

55
times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-equilibrium Fluctuations in a Ternary Mixture Subjected to a Temperature Gradient. Journal of Statistical Physics, 2020, 181, 1-18.	0.5	3
2	Giant Fluctuations Induced by Thermal Diffusion in Complex Liquids. Microgravity Science and Technology, 2020, 32, 873-887.	0.7	14
3	Definition of frame-invariant thermodiffusion and Soret coefficients for ternary mixtures. European Physical Journal E, 2019, 42, 43.	0.7	12
4	Propagating modes in a binary liquid mixture under thermal stress. Physical Review E, 2019, 99, 012602.	0.8	23
5	Thermal conductivity of water Ih-ice measured with transient hot-wires of different lengths. Applied Thermal Engineering, 2019, 149, 788-797.	3.0	6
6	SCCO: Thermodiffusion for the Oil and Gas Industry. Research for Development, 2019, , 171-190.	0.2	2
7	Gravity effects on Soret-induced non-equilibrium fluctuations in ternary mixtures. European Physical Journal E, 2017, 40, 22.	0.7	13
8	Thermodiffusion in multicomponent n-alkane mixtures. Npj Microgravity, 2017, 3, 20.	1.9	32
9	Dynamic analysis of the light scattered by the non-equilibrium fluctuations of a ternary mixture of polystyrene-toluene-n-hexane. European Physical Journal E, 2017, 40, 35.	0.7	16
10	Topical issue on non-isothermal transport in complex fluids. European Physical Journal E, 2017, 40, 51.	0.7	2
11	The NEUF-DIX space project - Non-EquilibriUm Fluctuations during Diffusion in compleX liquids. European Physical Journal E, 2016, 39, 119.	0.7	28
12	Confinement effect on the dynamics of non-equilibrium concentration fluctuations far from the onset of convection. European Physical Journal E, 2016, 39, 120.	0.7	13
13	Analysis of Non-Equilibrium Fluctuations In A Ternary Liquid Mixture. Microgravity Science and Technology, 2016, 28, 611-619.	0.7	22
14	Physical origin of nonequilibrium fluctuation-induced forces in fluids. Physical Review E, 2016, 93, 012148.	0.8	27
15	Nonequilibrium fluctuation-induced Casimir pressures in liquid mixtures. Physical Review E, 2016, 93, 032117.	0.8	15
16	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
17	Impact of Thermodiffusion on the Initial Vertical Distribution of Species in Hydrocarbon Reservoirs. Microgravity Science and Technology, 2016, 28, 79-86.	0.7	42
18	Nonequilibrium Casimir-like Forces in Liquid Mixtures. Physical Review Letters, 2015, 115, 035901.	2.9	37

#	ARTICLE	IF	CITATIONS
19	Non-equilibrium concentration fluctuations in binary liquids with realistic boundary conditions. European Physical Journal E, 2015, 38, 99.	0.7	15
20	Slowing-down of non-equilibrium concentration fluctuations in confinement. Europhysics Letters, 2015, 111, 60013.	0.7	26
21	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
22	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
23	Fluctuation-induced pressures in fluids in thermal nonequilibrium steady states. Physical Review E, 2014, 89, 022145.	0.8	20
24	Thermal conductivity and density of clay pastes at various water contents for pelotherapy use. Applied Clay Science, 2014, 93-94, 23-27.	2.6	15
25	Non-equilibrium fluctuations induced by the Soret effect in a ternary mixture. European Physical Journal E, 2014, 37, 34.	0.7	21
26	Fluctuating hydrodynamics and concentration fluctuations in ternary mixtures. Comptes Rendus - Mecanique, 2013, 341, 399-404.	2.1	13
27	Hydrodynamic Fluctuations in Laminar Fluid Flow. II. Fluctuating Squire Equation. Journal of Statistical Physics, 2013, 150, 540-558.	0.5	7
28	Spatial correlations in nonequilibrium reaction-diffusion problems by the Gillespie algorithm. Physical Review E, 2013, 87, 052802.	0.8	2
29	Concentration fluctuations in non-isothermal reaction-diffusion systems. II. The nonlinear case. Journal of Chemical Physics, 2011, 135, 124516.	1.2	11
30	Interview with Michael E. Fisher. Europhysics News, 2011, 42, 14-16.	0.1	9
31	Thermal conductivity of carbon nanotubes and graphene in epoxy nanofluids and nanocomposites. Nanoscale Research Letters, 2011, 6, 610.	3.1	99
32	Hydrodynamic Fluctuations in Laminar Fluid Flow. I. Fluctuating Orr-Sommerfeld Equation. Journal of Statistical Physics, 2011, 144, 774-792.	0.5	11
33	Nonisothermal diffusionâ€“reaction with nonlinear Kramers kinetics. Comptes Rendus - Mecanique, 2011, 339, 287-291.	2.1	1
34	Jarzynski's equality illustrated by simple examples. European Journal of Physics, 2010, 31, 1097-1106.	0.3	11
35	The DarÃo Bacas goniobarimeter: building a balance based on properties of the cycloid. Physics Education, 2010, 45, 475-480.	0.3	0
36	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

#	ARTICLE	IF	CITATIONS
37	Mesoscopic non-equilibrium thermodynamics of non-isothermal reaction-diffusion. Physical Chemistry Chemical Physics, 2010, 12, 12780.	1.3	24
38	Nonequilibrium velocity fluctuations and energy amplification in planar Couette flow. Physical Review E, 2009, 79, 046308.	0.8	9
39	Measurement of the thermal conductivity of nanofluids by the multicurrent hot-wire method. Journal of Applied Physics, 2008, 104, .	1.1	65
40	Transverse-velocity fluctuations in a liquid under steady shear. Physical Review E, 2008, 77, 026306.	0.8	11
41	Thermal Fluctuations in Non-Equilibrium Thermodynamics. Journal of Non-Equilibrium Thermodynamics, 2007, 32, .	2.4	14
42	Concentration fluctuations in nonisothermal reaction-diffusion systems. Journal of Chemical Physics, 2007, 127, 034501.	1.2	12
43	Low-Frequency Velocity Correlation Spectrum of Fluid in a Rectangular Microcapillary. Langmuir, 2007, 23, 11917-11923.	1.6	1
44	The passing of Juan I. Mengual. Journal of Membrane Science, 2006, 283, 1.	4.1	0
45	Comment on "Shear-induced quench of long-range correlations in a liquid mixture". Physical Review E, 2006, 73, 013201.	0.8	3
46	Long-wavelength nonequilibrium concentration fluctuations induced by the Soret effect. Physical Review E, 2006, 74, 046305.	0.8	29
47	Coastline Changes from Melting Ice Sheets. Physics Today, 2005, 58, 12-12.	0.3	0
48	Dynamics of fluctuations in a fluid below the onset of Rayleigh-BÃ©nard convection. Physical Review E, 2004, 69, 021106.	0.8	39
49	Nonequilibrium fluctuations in the Rayleigh-BÃ©nard problem for binary fluid mixtures. European Physical Journal E, 2004, 15, 319-333.	0.7	32
50	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
51	Boundary effects on the nonequilibrium structure factor of fluids below the Rayleigh-BÃ©nard instability. Physical Review E, 2002, 66, 036305.	0.8	24
52	Nonequilibrium Concentration Fluctuations in Binary Liquid Systems Induced by the Soret Effect. Lecture Notes in Physics, 2002, , 121-145.	0.3	12
53	Separation of water and glycols by direct contact membrane distillation. Journal of Membrane Science, 1999, 158, 155-165.	4.1	24
54	Steady states in membrane distillation: influence of membrane wetting. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 4333-4338.	1.7	35

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55	Temperature polarization in non-isothermal mass transport through membranes. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2891-2896.	1.7	25