

JosÃ© M Romero-Enrique

List of Publications by Year in descending order

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58
papers

1,349
citations

471509

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35
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59
all docs

59
docs citations

59
times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	A universal curve for the magnetocaloric effect: an analysis based on scaling relations. Journal of Physics Condensed Matter, 2008, 20, 285207.	1.8	278
2	The magnetocaloric effect in materials with a second order phase transition: Are TC and Tpeak necessarily coincident?. Journal of Applied Physics, 2009, 105, .	2.5	142
3	Coexistence and Criticality in Size-Asymmetric Hard-Core Electrolytes. Physical Review Letters, 2000, 85, 4558-4561.	7.8	113
4	Nonlocality and Short-Range Wetting Phenomena. Physical Review Letters, 2004, 93, 086104.	7.8	57
5	Derivation of a non-local interfacial Hamiltonian for short-ranged wetting: I. Double-parabola approximation. Journal of Physics Condensed Matter, 2006, 18, 6433-6451.	1.8	52
6	Field dependence of the adiabatic temperature change in second order phase transition materials: Application to Gd. Journal of Applied Physics, 2009, 106, .	2.5	46
7	3D Short-Range Wetting and Nonlocality. Physical Review Letters, 2008, 100, 136105.	7.8	41
8	Micelle Formation in Aqueous Solutions of Room Temperature Ionic Liquids: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2017, 121, 8348-8358.	2.6	39
9	Dipolar origin of the gas-liquid coexistence of the hard-core 1:1 electrolyte model. Physical Review E, 2002, 66, 041204.	2.1	35
10	Derivation of a non-local interfacial Hamiltonian for short-ranged wetting: II. General diagrammatic structure. Journal of Physics Condensed Matter, 2007, 19, 416105.	1.8	31
11	Orientational transitions in a nematic liquid crystal confined by competing surfaces. Physical Review E, 2001, 64, 051704.	2.1	30
12	Freezing of hard spheres confined in narrow cylindrical pores. Journal of Chemical Physics, 2006, 125, 144702.	3.0	28
13	Interplay between Anchoring and Wetting at a Nematic-Substrate Interface. Physical Review Letters, 1999, 82, 2697-2700.	7.8	26
14	Fluid Adsorption near an Apex: Covariance between Complete and Critical Wetting. Physical Review Letters, 2003, 90, 046101.	7.8	23
15	Three-dimensional wedge filling in ordered and disordered systems. Journal of Physics Condensed Matter, 2004, 16, 2515-2542.	1.8	22
16	Complex fluids at complex surfaces: simply complicated?. Molecular Physics, 2011, 109, 1067-1075.	1.7	21
17	Derivation of a non-local interfacial model for 3D wetting in an external field. Journal of Physics Condensed Matter, 2009, 21, 465105.	1.8	20
18	Computer simulations of nematic drops: Coupling between drop shape and nematic order. Journal of Chemical Physics, 2012, 137, 034505.	3.0	17

#	ARTICLE	IF	CITATIONS
19	Liquid-Vapor Coexistence in a Primitive Model for a Room-Temperature Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9046-9049.	2.6	15
20	Scaling of the elastic contribution to the surface free energy of a nematic liquid crystal on a sawtoothed substrate. <i>Physical Review E</i> , 2010, 82, 011707.	2.1	15
21	Nematic wetting and filling of crenellated surfaces. <i>Physical Review E</i> , 2012, 86, 011703.	2.1	15
22	Casimir Contribution to the Interfacial Hamiltonian for 3D Wetting. <i>Physical Review Letters</i> , 2022, 128, .	7.8	14
23	Density functional theory study of the nematic-isotropic transition in a hybrid cell. <i>Journal of Chemical Physics</i> , 2005, 122, 014903.	3.0	13
24	Wetting transition of a nematic liquid crystal on a periodic wedge-structured substrate. <i>European Physical Journal E</i> , 2008, 26, 97-101.	1.6	13
25	Computer simulation study of the nematic-vapour interface in the Gay-Berne model. <i>Molecular Physics</i> , 2017, 115, 1214-1224.	1.7	13
26	Filling and wetting transitions of nematic liquid crystals on sinusoidal substrates. <i>Physical Review E</i> , 2011, 84, 021701.	2.1	12
27	3D wedge filling and 2D random-bond wetting. <i>Europhysics Letters</i> , 2005, 72, 1004-1010.	2.0	11
28	Controlling the order of wedge filling transitions: the role of line tension. <i>New Journal of Physics</i> , 2007, 9, 167-167.	2.9	11
29	The influence of non-locality on fluctuation effects for 3D short-ranged wetting. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 505102.	1.8	11
30	Bilayered smectic phase polymorphism in the dipolar Gay-Berne liquid crystal model. <i>Journal of Chemical Physics</i> , 2009, 130, 154504.	3.0	11
31	Anchoring and nematic-isotropic transitions in a confined nematic phase. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A363-A367.	1.8	10
32	Wetting of Planar Surfaces by a Gay-Berne Liquid Crystal. <i>Molecular Simulation</i> , 2003, 29, 385-391.	2.0	10
33	Tricritical wedge filling transitions with short-ranged forces. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3487-S3492.	1.8	10
34	Observation of Surface Nematization at the Solid-Liquid Crystal Interface via Molecular Simulation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15998-16005.	3.1	10
35	The order of filling transitions in acute wedges. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 182202.	1.8	10
36	Liquid-gas separation in colloidal electrolytes. <i>Journal of Chemical Physics</i> , 2006, 124, 054909.	3.0	9

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37	Generalized Berreman's model of the elastic surface free energy of a nematic liquid crystal on a sawtoothed substrate. <i>Physical Review E</i> , 2012, 86, 041706.	2.1	9
38	Molecular simulation study of the glass transition in a soft primitive model for ionic liquids. <i>Molecular Physics</i> , 2019, 117, 3941-3956.	1.7	9
39	Interfacial structure at a two-dimensional wedge filling transition: Exact results and a renormalization group study. <i>Physical Review E</i> , 2004, 69, 061604.	2.1	8
40	Finite-size scaling study of the liquid-vapour critical point of dipolar square-well fluids. <i>Molecular Physics</i> , 2009, 107, 563-570.	1.7	8
41	Filling and wetting transitions on sinusoidal substrates: a mean-field study of the Landau-Ginzburg model. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 035101.	1.8	8
42	Flue gas adsorption by single-wall carbon nanotubes: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2016, 145, 074701.	3.0	8
43	Nanodrops of Discotic Liquid Crystals: A Monte Carlo Study. <i>Langmuir</i> , 2017, 33, 11779-11787.	3.5	8
44	Comment on "Exact Results for the Lower Critical Solution in the Asymmetric Model of an Interacting Binary Mixture". <i>Physical Review Letters</i> , 1997, 79, 3543-3543.	7.8	7
45	The critical wetting saga: how to draw the correct conclusion. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 494234.	1.8	7
46	Renormalisation group determination of the order of the DNA denaturation transition. <i>Europhysics Letters</i> , 2010, 89, 40011.	2.0	7
47	Complex fluid behaviour of strongly asymmetric binary mixtures: thermodynamic properties of a generalized Lin-Taylor model. <i>Molecular Physics</i> , 1998, 93, 501-508.	1.7	6
48	Molecular simulation study of the glass transition for a flexible model of linear alkanes. <i>Molecular Simulation</i> , 2009, 35, 1043-1050.	2.0	5
49	Phase equilibria of a lattice model of associating binary mixtures. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 4271-4275.	2.8	4
50	Pattern-induced anchoring transitions in nematic liquid crystals. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 064002.	1.8	4
51	Critical exponents in the Lin-Taylor model of asymmetrical associating binary mixtures. <i>Molecular Physics</i> , 1998, 95, 571-577.	1.7	3
52	A finite-size scaling study of wedge filling transitions in the 3D Ising model. <i>Soft Matter</i> , 2013, 9, 7069.	2.7	3
53	Surface and capillary transitions in an associating binary mixture model. <i>Physical Review E</i> , 2003, 67, 041502.	2.1	2
54	Observation of a tricritical wedge filling transition in the 3D Ising model. <i>Europhysics Letters</i> , 2014, 108, 26003.	2.0	2

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55	Nematic liquid crystals on sinusoidal channels: the zigzag instability. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 014004.	1.8	2
56	Curvature corrections to the nonlocal interfacial model for short-ranged forces. <i>Physical Review E</i> , 2018, 97, 062804.	2.1	2
57	Wetting of Nematic Liquid Crystals on Crenellated Substrates: A Frank-Oseen Approach. <i>Crystals</i> , 2019, 9, 430.	2.2	1
58	Phase transitions, interfacial fluctuations and hidden symmetries for fluids near structured walls. <i>Pramana - Journal of Physics</i> , 2005, 64, 709-725.	1.8	0