JosÃ© M Romero-Enrique

List of Publications by Year
in descending order

58	1,349	471509	361022
papers	citations	17 h-index	35 g-index

59	59	59	1047
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Casimir Contribution to the Interfacial Hamiltonian for 3D Wetting. Physical Review Letters, 2022, 128, .	7.8	14
2	Wetting of Nematic Liquid Crystals on Crenellated Substrates: A Frankâ€“Oseen Approach. Crystals, 2019, 9, 430.	2.2	1
3	Molecular simulation study of the glass transition in a soft primitive model for ionic liquids. Molecular Physics, 2019, 117, 3941-3956.	1.7	9
4	Curvature corrections to the nonlocal interfacial model for short-ranged forces. Physical Review E, 2018, 97, 062804.	2.1	2
5	Nematic liquid crystals on sinusoidal channels: the zigzag instability. Journal of Physics Condensed Matter, 2017, 29, 014004.	1.8	2
6	Computer simulation study of the nematicâ€“vapour interface in the Gayâ€“Berne model. Molecular Physics, 2017, 115, 1214-1224.	1.7	13
7	Pattern-induced anchoring transitions in nematic liquid crystals. Journal of Physics Condensed Matter, 2017, 29, 064002.	1.8	4
8	Nanodrops of Discotic Liquid Crystals: A Monte Carlo Study. Langmuir, 2017, 33, 11779-11787.	3.5	8
9	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
10	Flue gas adsorption by single-wall carbon nanotubes: A Monte Carlo study. Journal of Chemical Physics, 2016, 145, 074701.	3.0	8
11	Filling and wetting transitions on sinusoidal substrates: a mean-field study of the Landauâ€“Ginzburg model. Journal of Physics Condensed Matter, 2015, 27, 035101.	1.8	8
12	Observation of a tricritical wedge filling transition in the 3D Ising model. Europhysics Letters, 2014, 108, 26003.	2.0	2
13	A finite-size scaling study of wedge filling transitions in the 3D Ising model. Soft Matter, 2013, 9, 7069.	2.7	3
14	The order of filling transitions in acute wedges. Journal of Physics Condensed Matter, 2012, 24, 182202.	1.8	10
15	Generalized Berreman's model of the elastic surface free energy of a nematic liquid crystal on a sawtoothed substrate. Physical Review E, 2012, 86, 041706.	2.1	9
16	Nematic wetting and filling of crenellated surfaces. Physical Review E, 2012, 86, 011703.	2.1	15
17	Computer simulations of nematic drops: Coupling between drop shape and nematic order. Journal of Chemical Physics, 2012, 137, 034505.	3.0	17
18	Filling and wetting transitions of nematic liquid crystals on sinusoidal substrates. Physical Review E, 2011, 84, 021701.	2.1	12

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19	Complex fluids at complex surfaces: simply complicated?. Molecular Physics, 2011, 109, 1067-1075.	1.7	21
20	Renormalisation group determination of the order of the DNA denaturation transition. Europhysics Letters, 2010, 89, 40011.	2.0	7
21	Scaling of the elastic contribution to the surface free energy of a nematic liquid crystal on a sawtoothed substrate. Physical Review E, 2010, 82, 011707.	2.1	15
22	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
23	Liquidâ˜'Vapor Coexistence in a Primitive Model for a Room-Temperature Ionic Liquid. Journal of Physical Chemistry B, 2009, 113, 9046-9049.	2.6	15
24	Bilayered smectic phase polymorphism in the dipolar Gayâ€“Berne liquid crystal model. Journal of Chemical Physics, 2009, 130, 154504.	3.0	11
25	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
26	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
27	Molecular simulation study of the glass transition for a flexible model of linear alkanes. Molecular Simulation, 2009, 35, 1043-1050.	2.0	5
28	Finite-size scaling study of the liquidâ€“vapour critical point of dipolar square-well fluids. Molecular Physics, 2009, 107, 563-570.	1.7	8
29	Wetting transition of a nematic liquid crystal on a periodic wedge-structured substrate. European Physical Journal E, 2008, 26, 97-101.	1.6	13
30	A universal curve for the magnetocaloric effect: an analysis based on scaling relations. Journal of Physics Condensed Matter, 2008, 20, 285207.	1.8	278
31	The critical wetting saga: how to draw the correct conclusion. Journal of Physics Condensed Matter, 2008, 20, 494234.	1.8	7
32	The influence of non-locality on fluctuation effects for 3D short-ranged wetting. Journal of Physics Condensed Matter, 2008, 20, 505102.	1.8	11
33	3D Short-Range Wetting and Nonlocality. Physical Review Letters, 2008, 100, 136105.	7.8	41
34	Controlling the order of wedge filling transitions: the role of line tension. New Journal of Physics, 2007, 9, 167-167.	2.9	11
35	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
36	Observation of Surface Nematization at the Solidâ˜'Liquid Crystal Interface via Molecular Simulation. Journal of Physical Chemistry C, 2007, 111, 15998-16005.	3.1	10

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37	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
38	Liquid-gas separation in colloidal electrolytes. Journal of Chemical Physics, 2006, 124, 054909.	3.0	9
39	Freezing of hard spheres confined in narrow cylindrical pores. Journal of Chemical Physics, 2006, 125, 144702.	3.0	28
40	3D wedge filling and 2D random-bond wetting. Europhysics Letters, 2005, 72, 1004-1010.	2.0	11
41	Phase transitions, interfacial fluctuations and hidden symmetries for fluids near structured walls. Pramana - Journal of Physics, 2005, 64, 709-725.	1.8	0
42	Tricritical wedge filling transitions with short-ranged forces. Journal of Physics Condensed Matter, 2005, 17, S3487-S3492.	1.8	10
43	Density functional theory study of the nematicâ€“isotropic transition in an hybrid cell. Journal of Chemical Physics, 2005, 122, 014903.	3.0	13
44	Three-dimensional wedge filling in ordered and disordered systems. Journal of Physics Condensed Matter, 2004, 16, 2515-2542.	1.8	22
45	Interfacial structure at a two-dimensional wedge filling transition: Exact results and a renormalization group study. Physical Review E, 2004, 69, 061604.	2.1	8
46	Nonlocality and Short-Range Wetting Phenomena. Physical Review Letters, 2004, 93, 086104.	7.8	57
47	Wetting of Planar Surfaces by a Gay-Berne Liquid Crystal. Molecular Simulation, 2003, 29, 385-391.	2.0	10
48	Fluid Adsorption near an Apex: Covariance between Complete and Critical Wetting. Physical Review Letters, 2003, 90, 046101.	7.8	23
49	Surface and capillary transitions in an associating binary mixture model. Physical Review E, 2003, 67, 041502.	2.1	2
50	Dipolar origin of the gas-liquid coexistence of the hard-core 1:1 electrolyte model. Physical Review E, 2002, 66, 041204.	2.1	35
51	Orientational transitions in a nematic liquid crystal confined by competing surfaces. Physical Review E, 2001, 64, 051704.	2.1	30
52	Anchoring and nematic-isotropic transitions in a confined nematic phase. Journal of Physics Condensed Matter, 2000, 12, A363-A367.	1.8	10
53	Coexistence and Criticality in Size-Asymmetric Hard-Core Electrolytes. Physical Review Letters, 2000, 85, 4558-4561.	7.8	113
54	Interplay between Anchoring and Wetting at a Nematic-Substrate Interface. Physical Review Letters, 1999, 82, 2697-2700.	7.8	26

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55	Phase equilibria of a lattice model of associating binary mixtures. Physical Chemistry Chemical Physics, 1999, 1, 4271-4275.	2.8	4
56	Critical exponents in the Linâ€"Taylor model of asymmetrical associating binary mixtures. Molecular Physics, 1998, 95, 571-577.	1.7	3
57	Complex fluid behaviour of strongly asymmetric binary mixtures: thermodynamic properties of a generalized Linâ€"Taylor model. Molecular Physics, 1998, 93, 501-508.	1.7	6
58	Comment on â€œExact Results for the Lower Critical Solution in the Asymmetric Model of an Interacting Binary Mixtureâ€• Physical Review Letters, 1997, 79, 3543-3543.	7.8	7