Margarida Telo da Gama

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The effect of dipolar forces on the structure and thermodynamics of classical fluids. Journal of Physics Condensed Matter, 2000, 12, R411-R434.	1.8	165
2	The interfacial properties of a model of a nematic liquid crystal. Molecular Physics, 1984, 52, 585-610.	1.7	129
3	Structure of strongly dipolar fluids at low densities. Physical Review E, 1996, 54, 2597-2609.	2.1	125
4	The form of the density profile at a liquid-gas interface. Molecular Physics, 1985, 55, 1319-1338.	1.7	116
5	The structure and surface tension of the liquid-vapour interface near the upper critical end point of a binary mixture of Lennard-Jones fluids. Molecular Physics, 1983, 48, 229-250.	1.7	111
6	Strongly dipolar fluids at low densities compared to living polymers. Physical Review E, 1999, 59, 4388-4395.	2.1	104
7	Reentrant Phase Diagram of Network Fluids. Physical Review Letters, 2011, 106, 085703.	7.8	104
8	Quasi-two-dimensional dipolar fluid at low densities: Monte Carlo simulations and theory. Physical Review E, 2002, 65, 061201.	2.1	91
9	The vapour-liquid interface for a Lennard-Jones model of argon-krypton mixtures. Molecular Physics, 1984, 53, 1113-1130.	1.7	90
10	Adsorption and orientation of amphiphilic molecules at a liquid-liquid interface. Molecular Physics, 1986, 59, 227-239.	1.7	83
11	The interfacial properties of a model of a nematic liquid crystal. Molecular Physics, 1984, 52, 611-630.	1.7	81
12	A microscopic theory for spherical interfaces: Liquid drops in the canonical ensemble. Journal of Chemical Physics, 1986, 85, 490-499.	3.0	81
13	Phase diagram and critical behavior of the ferromagnetic Heisenberg fluid from density-functional theory. Physical Review E, 1995, 52, 1915-1929.	2.1	80
14	Density-functional theory for the interfacial properties of a dipolar fluid. Journal of Physics Condensed Matter, 1991, 3, 111-125.	1.8	76
15	Recurrent epidemics in small world networks. Journal of Theoretical Biology, 2005, 233, 553-561.	1.7	72
16	Re-entrant phase behaviour of network fluids: A patchy particle model with temperature-dependent valence. Journal of Chemical Physics, 2011, 135, 034501.	3.0	72
17	Phase diagrams of binary mixtures of patchy colloids with distinct numbers of patches: the network fluid regime. Soft Matter, 2011, 7, 5615.	2.7	70
18	Liquid crystal boojum-colloids. New Journal of Physics, 2012, 14, 073030.	2.9	68

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19	Wetting transitions at fluid-fluid interfaces. Molecular Physics, 1983, 49, 283-300.	1.7	66
20	Theory of the liquid-vapour interface of a binary mixture of Lennard-Jones fluids. Molecular Physics, 1980, 41, 1091-1112.	1.7	64
21	Criticality of dipolar fluids: Liquid-vapor condensation versus phase separation in systems of living polymers. Physical Review E, 1997, 56, R6252-R6255.	2.1	64
22	The liquid-vapour interface of simple models of nematic liquid crystals. Molecular Physics, 1985, 54, 321-332.	1.7	59
23	Colloidal interactions in two-dimensional nematics. European Physical Journal E, 2002, 9, 341-347.	1.6	57
24	Stochastic fluctuations in epidemics on networks. Journal of the Royal Society Interface, 2008, 5, 555-566.	3.4	57
25	Liquid–liquid phase equilibria of symmetrical mixtures by simulation in the semigrand canonical ensemble. Journal of Chemical Physics, 1995, 103, 6188-6196.	3.0	54
26	Criticality of colloids with distinct interaction patches: The limits of linear chains, hyperbranched polymers, and dimers. Physical Review E, 2009, 80, 021506.	2.1	54
27	Adsorption and wetting transitions at a model of the interface between a solid and a binary fluid mixture. Molecular Physics, 1983, 48, 687-714.	1.7	53
28	Scaling of the interfacial tension of microemulsions: A phenomenological description. Journal of Chemical Physics, 1996, 105, 2875-2883.	3.0	52
29	Equilibrium self-assembly of colloids with distinct interaction sites: Thermodynamics, percolation, and cluster distribution functions. Journal of Chemical Physics, 2010, 132, 234502.	3.0	50
30	The density profile and surface tension of a Lennard-Jones fluid from a generalized van der Waals theory. Molecular Physics, 1979, 38, 367-375.	1.7	49
31	How patchy can one get and still condense? The role of dissimilar patches in the interactions of colloidal particles. Molecular Physics, 2009, 107, 453-466.	1.7	48
32	The structure and surface tension of the liquid-vapour interface of a model of a molten salt. Molecular Physics, 1980, 41, 1355-1372.	1.7	46
33	Phase diagram of Heisenberg fluids: Computer simulation and density functional theory. Physical Review E, 1997, 55, 436-446.	2.1	46
34	Phase diagrams of binary mixtures of patchy colloids with distinct numbers and types of patches: The empty fluid regime. Journal of Chemical Physics, 2011, 134, 104904.	3.0	42
35	The structure and surface tension of the liquid-vapour interface near the upper critical end point of a binary mixture of Lennard-Jones fluids. Molecular Physics, 1983, 48, 251-266.	1.7	41
36	Bicontinuous and mixed gels in binary mixtures of patchy colloidal particles. Soft Matter, 2012, 8, 1785.	2.7	41

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37	The effect of confinement on the isotropic-nematic transition. Molecular Physics, 1990, 71, 801-821.	1.7	40
38	Surface-induced alignment at model nematic interfaces. Physical Review E, 1995, 52, 5028-5039.	2.1	40
39	Phase transition in two-dimensional dipolar fluids at low densities. Physical Review E, 2006, 73, 041507.	2.1	39
40	Epidemics in small world networks. European Physical Journal B, 2006, 50, 205-208.	1.5	37
41	Wetting transitions at fluid-fluid interfaces. Molecular Physics, 1983, 49, 301-314.	1.7	36
42	Structural and conformational properties of a quasi-two-dimensional dipolar fluid. Journal of Physics Condensed Matter, 2002, 14, 9171-9186.	1.8	36
43	Singularities in the consistent hypernetted chain approximation. Journal of Chemical Physics, 1994, 101, 594-602.	3.0	34
44	The effect of anchoring on the nematic flow in channels. Soft Matter, 2015, 11, 4674-4685.	2.7	34
45	Interaction of colloids with a nematic-isotropic interface. Physical Review E, 2004, 69, 021706.	2.1	33
46	Scaling of the interfacial tension of microemulsions: A Landau theory approach. Journal of Chemical Physics, 1998, 108, 4189-4198.	3.0	31
47	Crossover scales at the critical points of fluids with electrostatic interactions. Journal of Chemical Physics, 1999, 110, 10058-10066.	3.0	31
48	First-order and continuous transitions in confined liquid crystals. Physical Review A, 1990, 41, 1149-1152.	2.5	29
49	Nonequilibrium wetting transitions with short range forces. Physical Review E, 2003, 67, 021607.	2.1	29
50	Structural evidence that molten CsAu is ionic. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1980, 41, 351-356.	0.6	28
51	Percolation of colloids with distinct interaction sites. Physical Review E, 2010, 81, 010501.	2.1	28
52	Thermodynamic consistency in the hypernetted chain theory. Journal of Chemical Physics, 1993, 98, 1534-1538.	3.0	27
53	Geometrically-Controlled Twist Transitions in Nematic Cells. Physical Review Letters, 2002, 88, 245502.	7.8	27
54	Properties of patchy colloidal particles close to a surface: A Monte Carlo and density functional study. Journal of Chemical Physics, 2012, 137, 084704.	3.0	27

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55	Computing the phase diagram of binary mixtures: A patchy particle case study. Journal of Chemical Physics, 2013, 138, 164904.	3.0	27
56	The hard ellipse liquid: An integral equation study. Journal of Chemical Physics, 1991, 95, 7591-7602.	3.0	26
57	Density-functional approach to the theory of dipolar fluids. Journal of Physics A, 1997, 30, 1953-1965.	1.6	24
58	Structure and phase diagram of self-assembled rigid rods: Equilibrium polydispersity and nematic ordering in two dimensions. Physical Review E, 2009, 79, 021505.	2.1	24
59	Dynamics of network fluids. Advances in Colloid and Interface Science, 2017, 247, 258-263.	14.7	24
60	Nonequilibrium growth of patchy-colloid networks on substrates. Physical Review E, 2013, 87, .	2.1	23
61	Three-dimensional patchy lattice model: Ring formation and phase separation. Journal of Chemical Physics, 2014, 140, 044905.	3.0	23
62	Spinodal decomposition in a Lennard-Jones fluid. Molecular Physics, 1979, 38, 687-698.	1.7	22
63	Phase diagrams of aligned dipolar hard rods. Physical Review E, 1998, 57, 1752-1760.	2.1	21
64	Complex fluids at complex surfaces: simply complicated?. Molecular Physics, 2011, 109, 1067-1075.	1.7	21
65	Surface segregation and surface tension at the liquid–vapour interface of a binary mixture of Lennard-Jones fluids. Faraday Symposia of the Chemical Society, 1981, 16, 45-58.	0.5	20
66	Stochastic theory of non-equilibrium wetting. Europhysics Letters, 2002, 57, 803-809.	2.0	20
67	Key-lock mechanism in nematic colloidal dispersions. Physical Review E, 2004, 69, 061402.	2.1	20
68	Generic two-phase coexistence in nonequilibrium systems. European Physical Journal B, 2005, 43, 73-79.	1.5	19
69	Reentrant Wetting of Network Fluids. Physical Review Letters, 2012, 109, 116103.	7.8	19
70	Non-equilibrium adsorption of 2AnB patchy colloids on substrates. Soft Matter, 2013, 9, 5616.	2.7	19
71	Asymmetric water-oil-amphiphile mixtures: Lamellar phases and droplet microemulsions. Journal of Chemical Physics, 1998, 109, 1152-1161.	3.0	18
72	Pair approximation models for disease spread. European Physical Journal B, 2006, 50, 177-181.	1.5	18

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73	Percolation in binary and ternary mixtures of patchy colloids. Journal of Chemical Physics, 2016, 145, 074903.	3.0	18
74	Folding and form: Insights from lattice simulations. Physical Review E, 2004, 69, 051917.	2.1	17
75	Modeling dipolar and quadrupolar defect structures generated by chiral islands in freely suspended liquid crystal films. Physical Review E, 2009, 80, 041708.	2.1	17
76	Particle selection through topographic templates in nematic colloids. Soft Matter, 2014, 10, 9681-9687.	2.7	17
77	Effect of polydispersity on the ordering transition of adsorbed self-assembled rigid rods. Physical Review E, 2010, 82, 061117.	2.1	16
78	Mixtures of functionalized colloids on substrates. Journal of Chemical Physics, 2013, 139, 154903.	3.0	16
79	Interfacial phase transitions in molecular fluids and multicomponent mixtures. Journal of the Chemical Society, Faraday Transactions 2, 1986, 82, 1721.	1.1	15
80	The condensation and ordering of models of empty liquids. Journal of Chemical Physics, 2011, 135, 174903.	3.0	15
81	Three-dimensional patchy lattice model for empty fluids. Journal of Chemical Physics, 2012, 137, 244902.	3.0	15
82	Nematic wetting and filling of crenellated surfaces. Physical Review E, 2012, 86, 011703.	2.1	15
83	Interactions of distinct quadrupolar nematic colloids. Soft Matter, 2012, 8, 10100.	2.7	15
84	Demixing of active particles in the presence of external fields. Journal of Chemical Physics, 2017, 147, 174702.	3.0	15
85	Phase equilibria of model ternary mixtures: Theory and computer simulation. Journal of Chemical Physics, 1997, 107, 6366-6378.	3.0	14
86	What Controls the Thickness of Wetting Layers near Bulk Criticality?. Physical Review Letters, 2002, 89, 096101.	7.8	14
87	Native geometry and the dynamics of protein folding. Biophysical Chemistry, 2005, 115, 169-175.	2.8	14
88	Kinetic roughening of aggregates of patchy colloids with strong and weak bonds. Europhysics Letters, 2014, 107, 56002.	2.0	14
89	Relaxation dynamics of functionalized colloids on attractive substrates. Soft Matter, 2016, 12, 1550-1557.	2.7	14
90	Propagation of active nematic–isotropic interfaces on substrates. Soft Matter, 2020, 16, 4256-4266.	2.7	14

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91	Wetting and interfacial order at nematic free surfaces. Europhysics Letters, 1996, 35, 189-194.	2.0	13
92	The Gŕmodel revisited: Native structure and the geometric coupling between local and long-range contacts. Proteins: Structure, Function and Bioinformatics, 2005, 60, 712-722.	2.6	13
93	Communication: The criticality of self-assembled rigid rods on triangular lattices. Journal of Chemical Physics, 2011, 134, 071101.	3.0	13
94	Effect of the number of patches on the growth of networks of patchy colloids on substrates. Molecular Physics, 2015, 113, 1069-1075.	1.7	13
95	Phase equilibria and interfacial properties of model ternary mixtures. Molecular Physics, 1987, 62, 585-604.	1.7	12
96	Bonded Boojum-Colloids in Nematic Liquid Crystals. Langmuir, 2013, 29, 10360-10367.	3.5	12
97	Adsorbed films of three-patch colloids: Continuous and discontinuous transitions between thick and thin films. Physical Review E, 2014, 90, 032302.	2.1	12
98	Structure of the cholesteric–isotropic interface. Soft Matter, 2014, 10, 9399-9402.	2.7	12
99	Generalization of Wertheim's theory for the assembly of various types of rings. Soft Matter, 2015, 11, 5828-5838.	2.7	12
100	Active nematic–isotropic interfaces in channels. Soft Matter, 2019, 15, 6819-6829.	2.7	12
101	Phase behavior of a binary mixture of patchy colloids: Effect of particle size and gravity. Journal of Chemical Physics, 2021, 155, 044903.	3.0	12
102	Pathways to folding, nucleation events, and native geometry. Journal of Chemical Physics, 2007, 127, 145106.	3.0	11
103	Kinetic interfaces of patchy particles. Journal of Physics Condensed Matter, 2015, 27, 194123.	1.8	11
104	Fluid interfacial phenomena. Physica Scripta, 1991, T35, 79-81.	2.5	10
105	Localized contacts between hosts reduce pathogen diversity. Journal of Theoretical Biology, 2006, 241, 477-487.	1.7	10
106	Interaction anisotropy and the KPZ to KPZQ transition in particle deposition at the edges of drying drops. Soft Matter, 2018, 14, 1903-1907.	2.7	10
107	Dynamics of Patchy Particles in and out of Equilibrium. Journal of Physical Chemistry B, 2018, 122, 3514-3518.	2.6	10
108	Modeling of Cell-Mediated Self-Assembled Colloidal Scaffolds. ACS Applied Materials & Interfaces, 2020, 12, 48321-48328.	8.0	10

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109	Wall-induced order of a liquid crystal. Physical Review Letters, 1987, 59, 154-154.	7.8	9
110	Colloidal discs in nematic liquid crystals. Journal of Physics Condensed Matter, 2004, 16, S1921-S1930.	1.8	9
111	Reply to "Comment on â€~Effect of polydispersity on the ordering transition of adsorbed self-assembled rigid rods' ― Physical Review E, 2012, 85, .	2.1	9
112	Director alignment at the nematic–isotropic interface: elastic anisotropy and active anchoring. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200394.	3.4	9
113	A model for two dimensional orientational order. Physica A: Statistical Mechanics and Its Applications, 1992, 180, 263-278.	2.6	8
114	A model nematic liquid crystal revisited: some new phase diagrams from density-functional theory. Molecular Physics, 1995, 86, 1537-1543.	1.7	8
115	Density functional theory of long-range critical wetting. Physical Review E, 2000, 62, 6571-6576.	2.1	8
116	Ordering of binary colloidal crystals by random potentials. Soft Matter, 2020, 16, 4267-4273.	2.7	8
117	The surface tension of non-critical interfaces near critical end points. Molecular Physics, 1984, 52, 573-583.	1.7	7
118	The structure of molten CsAu: ab initio and Monte Carlo study. Journal of Physics Condensed Matter, 1991, 3, 5615-5620.	1.8	7
119	Stability of the order-order critical points of Heisenberg and nematic model fluids. Physical Review E, 1998, 58, 3175-3186.	2.1	7
120	Interfacial motion in flexo- and order-electric switching between nematic filled states. Journal of Physics Condensed Matter, 2013, 25, 245103.	1.8	7
121	Classical density functional theory for associating fluids in orienting external fields. Physical Review E, 2013, 88, 060301.	2.1	7
122	Effect of curvature on cholesteric liquid crystals in toroidal geometries. Physical Review E, 2017, 95, 012702.	2.1	7
123	Equilibrium structure of liquid wetting layers. Journal of Chemical Physics, 1987, 86, 1521-1532.	3.0	6
124	Global phase diagram of a confined uniaxial nematic. Physica A: Statistical Mechanics and Its Applications, 1991, 179, 179-198.	2.6	6
125	Phase transitions in liquid crystal films. Physica A: Statistical Mechanics and Its Applications, 1991, 172, 219-224.	2.6	6
126	Crossover between complete wetting and critical adsorption. Physica A: Statistical Mechanics and Its Applications, 1991, 171, 69-79.	2.6	6

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127	Temperature (de)activated patchy colloidal particles. Journal of Physics Condensed Matter, 2016, 28, 244008.	1.8	6
128	Self-assembly of colloidal bands driven by a periodic external field. Journal of Chemical Physics, 2016, 144, 034902.	3.0	6
129	Wetting of cholesteric liquid crystals. European Physical Journal E, 2016, 39, 13.	1.6	6
130	Nonequilibrium self-organization of colloidal particles on substrates: adsorption, relaxation, and annealing. Journal of Physics Condensed Matter, 2017, 29, 014001.	1.8	6
131	Field-driven dynamical demixing of binary mixtures. Molecular Physics, 2018, 116, 3224-3230.	1.7	6
132	Smoluchowski equations for linker-mediated irreversible aggregation. Soft Matter, 2020, 16, 7513-7523.	2.7	6
133	Phase diagrams and interfacial properties of nematic liquid crystals. Physica A: Statistical Mechanics and Its Applications, 1997, 244, 389-401.	2.6	5
134	Nucleation phenomena in protein folding: the modulating role of protein sequence. Journal of Physics Condensed Matter, 2007, 19, 285212.	1.8	5
135	Coherence thresholds in models of language change and evolution: The effects of noise, dynamics, and network of interactions. Physical Review E, 2008, 77, 046108.	2.1	5
136	Optimal number of linkers per monomer in linker-mediated aggregation. Soft Matter, 2019, 15, 3712-3718.	2.7	5
137	Dynamics of flowing 2D skyrmions. Journal of Physics Condensed Matter, 2022, 34, 034001.	1.8	5
138	Orientation and association at the liquidÂvapour interface of dipolar fluids. Journal of Physics Condensed Matter, 2002, 14, 12159-12165.	1.8	4
139	Diffusion-limited deposition of dipolar particles. Physical Review E, 2004, 69, 061406.	2.1	4
140	Pattern-induced anchoring transitions in nematic liquid crystals. Journal of Physics Condensed Matter, 2017, 29, 064002.	1.8	4
141	Dynamics of a network fluid within the liquid–gas coexistence region. Soft Matter, 2018, 14, 2744-2750.	2.7	4
142	Strongly dipolar fluids at low densities. Journal of Physics Condensed Matter, 2000, 12, A471-A476.	1.8	3
143	Nematic droplets on fibers. Physical Review E, 2015, 92, 062507.	2.1	3
144	Hierarchical structure of the energy landscape in the Voronoi model of dense tissue. Physical Review Research, 2022, 4, .	3.6	3

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145	Structure of droplet microemulsions in the semi-dilute regime. Journal of Chemical Physics, 1999, 111, 7646-7651.	3.0	2
146	Kardar-Parisi-Zhang interfaces bounded by long-ranged potentials. Physical Review E, 2006, 74, 011121.	2.1	2
147	Interactions between Circular Inclusions in Smectic- <i>C</i> Films with Planar Anchoring. Molecular Crystals and Liquid Crystals, 2008, 495, 266/[618]-273/[625].	0.9	2
148	Nematic liquid crystals on sinusoidal channels: the zigzag instability. Journal of Physics Condensed Matter, 2017, 29, 014004.	1.8	2
149	Dynamic Design of Spatial Patterns of Colloidal Suspensions. Langmuir, 2017, 33, 11698-11702.	3.5	2
150	Strongly dipolar fluids: a theoretical and computational challenge. Computer Physics Communications, 1999, 121-122, 256-258.	7.5	1
151	Lamellar phases confined in quasicylindrical pores: Lattice model results. Physical Review E, 2002, 65, 031707.	2.1	1
152	Orientational order in deposits of magnetic particles. Molecular Physics, 2003, 101, 1659-1666.	1.7	1
153	Folding of small proteins: a matter of geometry?. Molecular Physics, 2005, 103, 2903-2910.	1.7	1
154	The nature of the ordered phase of the confined self-assembled rigid rod model. Journal of Chemical Physics, 2012, 137, 074901.	3.0	1
155	Wetting of Nematic Liquid Crystals on Crenellated Substrates: A Frank–Oseen Approach. Crystals, 2019, 9, 430.	2.2	1
156	Cell motility in confluent tissues induced by substrate disorder. Physical Review Research, 2022, 4, .	3.6	1
157	Interfacial phase transitions. Journal of Physics Condensed Matter, 1990, 2, SA417-SA420.	1.8	0
158	The Ninth Liquid Matter Conference. Journal of Physics Condensed Matter, 2015, 27, 190301.	1.8	0
159	The Ninth Liquid Matter Conference. Journal of Physics Condensed Matter, 2015, 27, 190302.	1.8	0
160	Nematic films at chemically structured surfaces. Journal of Physics Condensed Matter, 2017, 29, 074002.	1.8	0
161	Annealing cycles and the self-organization of functionalized colloids. Journal of Physics Condensed Matter, 2018, 30, 014001.	1.8	0
162	Crossover from three- to six-fold symmetry of colloidal aggregates in circular traps. Soft Matter, 2018, 14, 9411-9417.	2.7	0