Robert Evans

List of Publications by Year
in descending order

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181 papers	14,743 citations	20797 60 h-index	19169 118 g-index
182 all docs	182 docs citations	182 times ranked	4380 citing authors

#	Article	IF	Citations
1	The nature of the liquid-vapour interface and other topics in the statistical mechanics of non-uniform, classical fluids. Advances in Physics, 1979, 28, 143-200.	35.9	2,374
2	Phase equilibria of fluid interfaces and confined fluids. Molecular Physics, 1987, 60, 573-595.	0.8	597
3	Fluids adsorbed in narrow pores: phase equilibria and structure. Journal of Physics Condensed Matter, 1990, 2, 8989-9007.	0.7	558
4	Fundamental measure theory for hard-sphere mixtures revisited: the White Bear version. Journal of Physics Condensed Matter, 2002, 14, 12063-12078.	0.7	509
5	Fluids in narrow pores: Adsorption, capillary condensation, and critical points. Journal of Chemical Physics, 1986, 84, 2376-2399.	1.2	489
6	Capillary condensation and adsorption in cylindrical and slit-like pores. Journal of the Chemical Society, Faraday Transactions 2, 1986, 82, 1763.	1.1	364
7	Nonclassical nucleation theory for the gasâ€“liquid transition. Journal of Chemical Physics, 1988, 89, 7521-7530.	1.2	357
8	Phase equilibria and solvation forces for fluids confined between parallel walls. Journal of Chemical Physics, 1987, 86, 7138-7148.	1.2	286
9	Depletion potential in hard-sphere mixtures:â€,â€,Theory and applications. Physical Review E, 2000, 62, 5360-5377.	0.8	283
10	Calculations of the transport properties of liquid transition metals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1971, 35, 57-58.	0.9	263
11	Phase behaviour and structure of model colloid-polymer mixtures. Journal of Physics Condensed Matter, 1999, 11, 10079-10106.	0.7	243
12	A simple density functional theory for inhomogeneous liquids. Molecular Physics, 1984, 52, 847-857.	0.8	241
13	Depletion forces in fluids. Physical Review E, 1998, 57, 6785-6800.	0.8	238
14	Temperature dependence of gas adsorption on a mesoporous solid: capillary criticality and hysteresis. Langmuir, 1989, 5, 714-723.	1.6	235
15	A simple muffin tin model for the electrical resistivity of liquid noble and transition metals and their alloys. Journal of Physics F: Metal Physics, 1972, 2, 709-725.	1.6	232
16	Influence of wetting on phase equilibria: A novel mechanism for critical-point shifts in films. Physical Review Letters, 1990, 64, 439-442.	2.9	197
17	Asymptotic decay of correlations in liquids and their mixtures. Journal of Chemical Physics, 1994, 100, 591-603.	1.2	195
18	Asymptotic decay of liquid structure: oscillatory liquid-vapour density profiles and the Fisher-Widom line. Molecular Physics, 1993, 80, 755-775.	0.8	194

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19	Wetting transitions at models of a solid-gas interface. Molecular Physics, 1983, 48, 799-831.	0.8	167
20	Novel phase behaviour of a confined fluid or Ising magnet. Physica A: Statistical Mechanics and Its Applications, 1992, 181, 250-296.	1.2	164
21	Density Functional for a Model Colloid-Polymer Mixture. Physical Review Letters, 2000, 85, 1934-1937.	2.9	147
22	The decay of correlations in ionic fluids. Molecular Physics, 1994, 83, 619-654.	0.8	134
23	Wetting and capillary nematization of a hard-rod fluid: A simulation study. Physical Review E, 2001, 63, 051703.	0.8	132
24	The form of the density profile at a liquid-gas interface. Molecular Physics, 1985, 55, 1319-1338.	0.8	116
25	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.	0.8	111
26	Orientational wetting and capillary nematization of hard-rod fluids. Europhysics Letters, 2000, 49, 350-356.	0.7	110
27	Binary Gaussian core model: Fluid-fluid phase separation and interfacial properties. Physical Review E, 2001, 64, 041501.	0.8	104
28	Structure and adsorption at gasâ€“solid interfaces: Layering transitions from a continuum theory. Journal of Chemical Physics, 1988, 89, 4412-4423.	1.2	102
29	Interface localization transition in Ising films with competing walls: Ginzburg criterion and crossover scaling. Physical Review E, 1996, 53, 5023-5034.	0.8	101
30	The role of capillary wave fluctuations in determining the liquid-vapour interface. Molecular Physics, 1981, 42, 1169-1196.	0.8	97
31	The entropies and structure factors of liquid simple metals. Journal of Physics C: Solid State Physics, 1976, 9, 3877-3903.	1.5	95
32	Interfaces, wetting, and capillary nematization of a hard-rod fluid: Theory for the Zwanzig model. Journal of Chemical Physics, 2000, 113, 7689-7701.	1.2	93
33	Entropic wetting and the fluid-fluid interface of a model colloid-polymer mixture. Journal of Physics Condensed Matter, 2002, 14, L1-L8.	0.7	90
34	Density Functional Theory for Small Systems: Hard Spheres in a Closed Spherical Cavity. Physical Review Letters, 1997, 79, 2466-2469.	2.9	88
35	Depletion potential in hard-sphere fluids. Europhysics Letters, 1999, 47, 398-404.	0.7	88
36	Comment on Reverse Monte Carlo Simulation. Molecular Simulation, 1990, 4, 409-411.	0.9	83

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37	The role of wetting films in capillary condensation and rise: Influence of long-range forces. Chemical Physics Letters, 1985, 114, 415-422.	1.2	82
38	A density functional theory for inhomogeneous charged fluids. Molecular Physics, 1980, 40, 413-435.	0.8	80
39	Statistical mechanics of inhomogeneous model colloidâ€"polymer mixtures. Molecular Physics, 2003, 101, 3349-3384.	0.8	80
40	Model colloidal fluid with competing interactions: Bulk and interfacial properties. Journal of Chemical Physics, 2007, 126, 014104.	1.2	79
41	Monte Carlo study of phase transitions in a confined lattice gas. Physical Review B, 1989, 39, 9336-9342.	1.1	78
42	How the structure of a confined fluid depends on the ensemble: Hard spheres in a spherical cavity. Journal of Chemical Physics, 1998, 109, 3637-3650.	1.2	78
43	A model for the structure of liquid Li4Pb. Journal of Physics F: Metal Physics, 1983, 13, 1993-2010.	1.6	77
44	Phase transitions in a confined lattice gas: Prewetting and capillary condensation. Physica A: Statistical Mechanics and Its Applications, 1987, 141, 187-210.	1.2	77
45	The resistivity and thermopower of liquid mercury and its alloys. Journal of Physics C: Solid State Physics, 1970, 3, S137-S152.	1.5	76
46	The long-wavelength behaviour of the structure factor of liquid alkali metals. Journal of Physics C: Solid State Physics, 1981, 14, 3137-3153.	1.5	76
47	Vacancy formation energies and linear screening theory. Journal of Physics F: Metal Physics, 1976, 6, 483-498.	1.6	75
48	Solvation force in two-dimensional Ising strips. Physical Review B, 1994, 49, 8842-8851.	1.1	74
49	Monte Carlo studies of the freezing and condensation transitions of confined fluids. Molecular Physics, 1999, 96, 209-229.	0.8	74
50	On the failure of certain integral equation theories to account for complete wetting at solid-fluid interfaces. Molecular Physics, 1983, 50, 993-1011.	0.8	71
51	New developments in classical density functional theory. Journal of Physics Condensed Matter, 2016, 28, 240401.	0.7	71
52	The fluid-fluid interface of a model colloid-polymer mixture. Europhysics Letters, 2000, 49, 678-684.	0.7	69
53	Density functional theory for a model colloidÂpolymer mixture: bulk fluid phases. Journal of Physics Condensed Matter, 2002, 14, 9353-9382.	0.7	68
54	A pseudo-atom theory for the surface tension of liquid metals. Journal of Physics C: Solid State Physics, 1974, 7, 2808-2830.	1.5	67

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55	Condensation in a Capped Capillary is a Continuous Critical Phenomenon. Physical Review Letters, 2007, 98, 226101.	2.9	67
56	Long ranged correlations at a solid-fluid interface A signature of the approach to complete wetting. Molecular Physics, 1982, 47, 1033-1063.	0.8	66
57	Wetting transitions at fluid-fluid interfaces. Molecular Physics, 1983, 49, 283-300.	0.8	66
58	Theory of the liquid-vapour interface of a binary mixture of Lennard-Jones fluids. Molecular Physics, 1980, 41, 1091-1112.	0.8	64
59	The long wavelength limit of the liquid structure factor-a theory for the compressibility of liquid rare gases and metals. Journal of Physics C: Solid State Physics, 1978, 11, 2437-2451.	1.5	63
60	Wetting and drying at a curved substrate: Long-ranged forces. Physical Review E, 2005, 71, 011602.	0.8	62
61	Effective interactions, structure, and isothermal compressibility of colloidal suspensions. Journal of Chemical Physics, 2000, 113, 4799-4807.	1.2	60
62	Liquids at interfaces: what can a theorist contribute?. Journal of Physics Condensed Matter, 1990, 2, SA15-SA32.	0.7	58
63	A self-consistent theory of inhomogeneous liquid metals: Calculations of the electron and ion density profiles and the liquid-vapour surface tension of the alkali metals. Journal of Physics C: Solid State Physics, 1981, 14, 5225-5246.	1.5	57
64	A simulation study of the decay of the pair correlation function in simple fluids. Journal of Chemical Physics, 2000, 112, 1449-1456.	1.2	57
65	A thermodynamic perturbation theory for the surface tension and ion density profile of a liquid metal. Journal of Physics C: Solid State Physics, 1976, 9, 1891-1906.	1.5	56
66	The density profile of a confined fluid. Molecular Physics, 1988, 63, 159-163.	0.8	56
67	The decay of the pair correlation function in simple fluids: long- versus short-ranged potentials. Journal of Physics Condensed Matter, 1994, 6, 9275-9294.	0.7	56
68	The role of attractive forces in the structure of simple liquids: a theory for small-angle scattering. Journal of Physics C: Solid State Physics, 1981, 14, 2569-2579.	1.5	53
69	Adsorption and wetting transitions at a model of the interface between a solid and a binary fluid mixture. Molecular Physics, 1983, 48, 687-714.	0.8	53
70	Homogeneous and inhomogeneous hard-sphere mixtures: manifestations of structural crossover. Molecular Physics, 2005, 103, 3009-3023.	0.8	52
71	Length scales for wetting transitions: Beyond the continuum Landau approximation for the interfacial binding potential. Physical Review A, 1992, 45, 3823-3830.	1.0	51
72	Liquid-vapor interface of an ionic fluid. Physical Review E, 1998, 57, 6944-6954.	0.8	51

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73	Inhomogeneous model colloid-polymer mixtures:â€ƒAdsorption at a hard wall. Physical Review E, 2001, 63, 041405.	0.8	51
74	Capillary condensation versus prewetting. Physical Review A, 1985, 32, 3817-3820.	1.0	50
75	Phase transitions of CO2confined in nanometer pores as revealed by positronium annihilation. Journal of Physics Condensed Matter, 1995, 7, L713-L717.	0.7	50
76	The density profile and surface tension of a Lennard-Jones fluid from a generalized van der Waals theory. Molecular Physics, 1979, 38, 367-375.	0.8	49
77	Nonanalytic curvature contributions to solvation free energies: Influence of drying. Journal of Chemical Physics, 2004, 121, 12074-12084.	1.2	49
78	Quantifying Density Fluctuations in Water at a Hydrophobic Surface: Evidence for Critical Drying. Physical Review Letters, 2015, 115, 016103.	2.9	49
79	The structure and surface tension of the liquid-vapour interface of a model of a molten salt. Molecular Physics, 1980, 41, 1355-1372.	0.8	46
80	Positron annihilation study of capillary condensation of nitrogen gas in a mesoporous solid. Physical Review Letters, 1992, 69, 3535-3538.	2.9	46
81	Criticality of ionic fields: The Ginzburg criterion for the restricted primitive model. Journal of Physics Condensed Matter, 1995, 7, L575-L583.	0.7	45
82	Depletion potentials in highly size-asymmetric binary hard-sphere mixtures: Comparison of simulation results with theory. Physical Review E, 2011, 84, 061136.	0.8	44
83	The local compressibility of liquids near non-adsorbing substrates: a useful measure of solvophobicity and hydrophobicity?. Journal of Physics Condensed Matter, 2015, 27, 194111.	0.7	44
84	Wetting in the binary Gaussian core model. Journal of Physics Condensed Matter, 2002, 14, 1131-1141.	0.7	43
85	The standard mean-field treatment of inter-particle attraction in classical DFT is better than one might expect. Journal of Chemical Physics, 2017, 147, 034501.	1.2	42
86	Primitive model electrolytes in the near and far field: Decay lengths from DFT and simulations. Journal of Chemical Physics, 2021, 154, 124504.	1.2	42
87	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.	0.8	41
88	Decay of correlation functions in hard-sphere mixtures: Structural crossover. Journal of Chemical Physics, 2004, 121, 7869.	1.2	41
89	The effect of confinement on the isotropic-nematic transition. Molecular Physics, 1990, 71, 801-821.	0.8	40
90	Critical amplitude ratios for critical wetting in three dimensions: Observation of nonclassical behavior in the Ising model. Physical Review B, 1991, 43, 11535-11538.	1.1	40

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91	Decay of correlations in fluids: The one-component plasma from Debye-HÃ¼ckel to the asymptotic-high-density limit. Physical Review E, 1999, 59, 1435-1451.	0.8	38
92	A unified description of hydrophilic and superhydrophobic surfaces in terms of the wetting and drying transitions of liquids. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23901-23908.	3.3	38
93	Solvent-mediated interactions and solvation close to fluidâ€“fluid phase separation:â€ƒA density functional treatment. Journal of Chemical Physics, 2003, 118, 9726-9746.	1.2	37
94	Soft-core binary fluid exhibiting a Â-line and freezing to a highly delocalized crystal. Journal of Physics Condensed Matter, 2004, 16, L297-L303.	0.7	37
95	Wetting transitions at fluid-fluid interfaces. Molecular Physics, 1983, 49, 301-314.	0.8	36
96	Wetting at curved substrates: Non-analytic behavior of interfacial properties. Europhysics Letters, 2003, 62, 815-821.	0.7	36
97	Nature of the prewetting critical point. Physical Review Letters, 1989, 63, 778-781.	2.9	35
98	Solvent mediated interactions between model colloids and interfaces: A microscopic approach. Journal of Chemical Physics, 2009, 131, 124704.	1.2	35
99	Adsorption from a binary fluid mixture. Molecular Physics, 1985, 54, 383-406.	0.8	33
100	Binary star-polymer solutions: bulk and interfacial properties. Journal of Physics Condensed Matter, 2002, 14, 12031-12050.	0.7	33
101	Comment on â€œDynamic wetting by liquids of different viscosity,â€• by T.D. Blake and Y.D. Shikhmurzaev. Journal of Colloid and Interface Science, 2004, 280, 537-538.	5.0	33
102	Critical Casimir Forces and Colloidal Phase Transitions in a Near-Critical Solvent: A Simple Model Reveals a Rich Phase Diagram. Physical Review Letters, 2015, 114, 038301.	2.9	33
103	Universal fluctuation-induced corrections to the Kelvin equation for capillary condensation. Journal of Physics A, 1992, 25, 275-284.	1.6	31
104	Charge ordering and the structure of ionic liquids: screened Coulomb versus Coulomb interionic potentials. Journal of Physics C: Solid State Physics, 1982, 15, 4961-4974.	1.5	30
105	Density functional theory for hard-sphere fluids: a generating function approach. Journal of Physics Condensed Matter, 1997, 9, 2375-2398.	0.7	30
106	Fluctuations, correlation functions and interfacial Hamiltonians for the complete wetting phase transition. Molecular Physics, 1993, 78, 1527-1559.	0.8	29
107	Phase equilibria in a model of low-salt suspensions of charged colloids. Journal of Physics Condensed Matter, 1999, 11, 10047-10060.	0.7	29
108	Effects of weak surface fields on the density profiles and adsorption of a confined fluid near bulk criticality. Journal of Chemical Physics, 2003, 119, 8663-8675.	1.2	29

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109	Drying and wetting transitions of a Lennard-Jones fluid: Simulations and density functional theory. Journal of Chemical Physics, 2017, 147, 044701.	1.2	29
110	Calculations of the surface energy of simple liquid metals. Journal of Physics C: Solid State Physics, 1975, 8, 793-808.	1.5	28
111	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
112	Critical depletion of fluids in pores: Competing bulk and surface fields. Journal of Chemical Physics, 1998, 108, 9765-9774.	1.2	28
113	An extension of the Faber-Ziman formula to liquid alloys of transition metals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1972, 38, 151-152.	0.9	27
114	Effect of a nearby charge-ordered phase on correlation functions in ionic systems. Journal of Chemical Physics, 2003, 118, 3702-3710.	1.2	27
115	The resistivity and thermoelectric power of the liquid alkaline earth metals. Journal of Physics F: Metal Physics, 1973, 3, L238-L243.	1.6	26
116	Influence of Capillary Condensation on the Near-Critical Solvation Force. Physical Review Letters, 2000, 85, 3079-3082.	2.9	25
117	Negative temperature coefficients of electrical resistivity: the divalent liquid metals Eu, Yb and Ba. Journal of Physics F: Metal Physics, 1976, 6, 1513-1522.	1.6	24
118	An exactly solvable model for a colloidâ€“polymer mixture in one-dimension. Physica A: Statistical Mechanics and Its Applications, 2002, 306, 287-300.	1.2	24
119	Solvent mediated interactions close to fluid-fluid phase separation: Microscopic treatment of bridging in a soft-core fluid. Journal of Chemical Physics, 2005, 122, 084513.	1.2	24
120	Pair correlation functions and the wavevector-dependent surface tension in a simple density functional treatment of the liquidâ€“vapour interface. Journal of Physics Condensed Matter, 2014, 26, 355008.	0.7	24
121	Critical Drying of Liquids. Physical Review Letters, 2016, 117, 176102.	2.9	24
122	Correlation functions in the approach to complete drying at a wall-liquid interface. Molecular Physics, 1988, 65, 455-473.	0.8	23
123	Pair-correlation functions and phase separation in a two-component point Yukawa fluid. Journal of Chemical Physics, 2006, 124, 054503.	1.2	23
124	Spinodal decomposition in a Lennard-Jones fluid. Molecular Physics, 1979, 38, 687-698.	0.8	22
125	Long-ranged surface perturbations for confined fluids. Physical Review Letters, 1991, 67, 2978-2981.	2.9	22
126	Interfacial properties of model colloidâ€“polymer mixtures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2001, 359, 961-975.	1.6	22

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127	Direct observation in 3d of structural crossover in binary hard sphere mixtures. Journal of Chemical Physics, 2016, 144, 144506.	1.2	22
128	The Born-Green equation for liquid metals. Journal of Physics F: Metal Physics, 1974, 4, 1839-1848.	1.6	21
129	Microscopic theory of solvent-mediated long-range forces: Influence of wetting. Europhysics Letters, 2002, 59, 526-532.	0.7	21
130	Temperature as an external field for colloidâ€“polymer mixtures: â€˜quenchingâ€™ by heating and â€˜meltingâ€™ by cooling. Journal of Physics Condensed Matter, 2012, 24, 464128.	0.7	21
131	The local structure factor near an interface; beyond extended capillary-wave models. Journal of Physics Condensed Matter, 2016, 28, 244013.	0.7	21
132	Solvent fluctuations around solvophobic, solvophilic, and patchy nanostructures and the accompanying solvent mediated interactions. Journal of Chemical Physics, 2017, 146, 124703.	1.2	21
133	Pairwise correlations at a fluid-fluid interface. Molecular Physics, 1985, 54, 1357-1392.	0.8	20
134	Relationship between local molecular field theory and density functional theory for non-uniform liquids. Journal of Chemical Physics, 2013, 138, 014502.	1.2	19
135	Wetting transitions in fluids with short-ranged forces: correlation functions and criticality. Journal of Physics Condensed Matter, 1989, 1, 7207-7238.	0.7	18
136	The screened Coulomb (Yukawa) charged hard sphere binary fluid. Molecular Physics, 1997, 92, 211-228.	0.8	18
137	Pair correlation function decay in models of simple fluids that contain dispersion interactions. Journal of Physics Condensed Matter, 2009, 21, 474220.	0.7	18
138	Positron and positronium annihilation studies of the phase behaviour of fluids in Vycor. Journal of Physics Condensed Matter, 1996, 8, 9613-9619.	0.7	17
139	Structural crossover in a model fluid exhibiting two length scales: Repercussions for quasicrystal formation. Physical Review E, 2018, 98, 012606.	0.8	17
140	Nucleation of liquid droplets in a fluid with competing interactions. Molecular Physics, 2011, 109, 2711-2722.	0.8	16
141	Free energy functionals and the structure of the uniform hard-sphere fluid. Molecular Physics, 1991, 73, 789-803.	0.8	15
142	Density Depletion and Enhanced Fluctuations in Water near Hydrophobic Solutes: Identifying the Underlying Physics. Physical Review Letters, 2022, 128, 045501.	2.9	15
143	Calculation of the Electrical Resistivity of Liquid Iron in the Earth's Core. Nature: Physical Science, 1972, 235, 165-167.	0.8	14
144	A comment on the order of the wetting transition at a solidâ€“fluid interface. Journal of Chemical Physics, 1984, 80, 587-589.	1.2	14

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145	Oscillatory behaviour of density profiles: Relevance for fluid interfacial phenomena. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1994, 98, 345-352.	0.9	14
146	Phase behavior and structure of a fluid confined between competing (solvophobic and solvophilic) walls. Physical Review E, 2012, 86, 031601.	0.8	14
147	On the decay of the pair correlation function and the line of vanishing excess isothermal compressibility in simple fluids. Journal of Chemical Physics, 2019, 151, 014501.	1.2	14
148	The Temperature Dependence of the Resistivity and Thermopower in Some Polyvalent Liquid Metals. Physics and Chemistry of Liquids, 1971, 2, 249-262.	0.4	13
149	Comment on simple scaling theory for three-dimensional critical wetting with short-ranged forces. Physical Review B, 1989, 39, 12336-12338.	1.1	13
150	Effects of confinement on critical adsorption: Absence of critical depletion for fluids in slit pores. Physical Review E, 1999, 60, 7105-7119.	0.8	13
151	Layering transitions and solvation forces in an asymmetrically confined fluid. Journal of Chemical Physics, 2014, 140, 134704.	1.2	13
152	Monte Carlo studies of the freezing and condensation transitions of confined fluids. Molecular Physics, 1999, 96, 209-229.	0.8	13
153	Soft core fluid in a quenched matrix of soft core particles: A mobile mixture in a model gel. Physical Review E, 2006, 73, 011506.	0.8	12
154	For fluids adsorbed at walls the MWDA density functional theory is equivalent to an HNC approach. Journal of Physics Condensed Matter, 1990, 2, 2435-2442.	0.7	11
155	Critical drying at a spherical substrate. Journal of Physics Condensed Matter, 2005, 17, S3499-S3505.	0.7	11
156	A MODEL FOR THE STRUCTURE OF SOME SEMICONDUCTING LIQUID ALLOYS : EVIDENCE FOR IONIC BONDING. Journal De Physique Colloque, 1980, 41, C8-321-C8-321.	0.2	10
157	Critical Casimir interactions and colloidal self-assembly in near-critical solvents. Journal of Chemical Physics, 2016, 145, 084902.	1.2	10
158	Liquid-gas asymmetry and the wave-vector-dependent surface tension. Physical Review E, 2015, 91, 030401.	0.8	9
159	Composition inversion in mixtures of binary colloids and polymer. Journal of Chemical Physics, 2018, 148, 184902.	1.2	9
160	Interfacial and wetting properties of a binary point Yukawa fluid. Journal of Chemical Physics, 2008, 129, 214709.	1.2	8
161	Bypassing the Energy Functional in Density Functional Theory: Direct Calculation of Electronic Energies from Conditional Probability Densities. Physical Review Letters, 2020, 125, 266401.	2.9	8
162	Calculations of electrical transport properties of liquid metals at high pressures. Physics of the Earth and Planetary Interiors, 1972, 6, 141-145.	0.7	7

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163	Theory of the density profiles and surface tension of charged fluids. Journal of Physics C: Solid State Physics, 1980, 13, L77-L81.	1.5	7
164	The surface tension of non-critical interfaces near critical end points. Molecular Physics, 1984, 52, 573-583.	0.8	7
165	The coexistence curve and surface tension of a monatomic water model. Journal of Chemical Physics, 2022, 156, 154505.	1.2	7
166	Phase behaviour of colloids suspended in a near-critical solvent: a mean-field approach. Molecular Physics, 2015, 113, 2546-2555.	0.8	6
167	Remnants of the disappearing critical point in chain-forming patchy fluids. Journal of Chemical Physics, 2020, 152, 111101.	1.2	6
168	Electronic Theory of the Thermodynamics and Structure of Liquid Metals. , 1978, , 153-219.		6
169	Comment on â€˜â€˜Simple theory for the critical adsorption of a fluidâ€™â€™. Physical Review A, 1986, 34, 3504-3507.	1.0	5
170	Decay of Correlations in Bulk Fluids and at Interfaces: A Density-Functional Perspective. ACS Symposium Series, 1996, , 166-184.	0.5	5
171	SURFACES.THE SURFACE PROPERTIES OF LIQUID METALS. Journal De Physique Colloque, 1980, 41, C8-775-C8-782.	0.2	5
172	Critical amplitudes for critical wetting with short-ranged forces: the approach to d=3-. Journal of Physics Condensed Matter, 1990, 2, 7687-7698.	0.7	4
173	Finite-size-scaling derivation of the Widom critical-exponent relation for surface tension. Physical Review A, 1992, 46, 5282-5283.	1.0	4
174	Anomalous freezing and melting behaviour of capillary confined CO2. Journal of Radioanalytical and Nuclear Chemistry, 1996, 210, 575-582.	0.7	3
175	Fluids in Model Pores or Cavities: The Influence of Confinement on Structure and Phase Behaviour. , 1999, , 153-172.		3
176	The Electronic and Cohesive Properties of Disordered Simple Metals. , 1979, , 417-472.		2
177	Measures of fluctuations for a liquid near critical drying. Physical Review E, 2022, 105, 044801.	0.8	2
178	The surface properties of molten salts. , 1982, , 84-85.		0
179	Daan Frenkel â€" An entropic career. Molecular Physics, 2018, 116, 2737-2741.	0.8	0
180	Gerhard Findenegg (1938â€“2019). Molecular Physics, 2021, 119, .	0.8	0

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181	Special issue in honour of Michael L. Klein FRS. Molecular Physics, 2021, 119, .	0.8	0