

Edgar M Blokhuis

List of Publications by Year in descending order

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56
papers

1,560
citations

331670

21
h-index

302126

39
g-index

56
all docs

56
docs citations

56
times ranked

1004
citing authors

#	ARTICLE	IF	CITATIONS
1	Fusion Pores Live on the Edge. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1204-1208.	4.6	6
2	Efficient and realistic simulation of phase coexistence. <i>Journal of Chemical Physics</i> , 2020, 153, 244121.	3.0	5
3	Interfacial Tension of Phase-Separated Polydisperse Mixed Polymer Solutions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3354-3362.	2.6	11
4	Measurement of the Curvature-Dependent Surface Tension in Nucleating Colloidal Liquids. <i>Physical Review Letters</i> , 2018, 121, 246102.	7.8	15
5	Tolman lengths and rigidity constants of multicomponent fluids: Fundamental theory and numerical examples. <i>Journal of Chemical Physics</i> , 2018, 148, 204702.	3.0	21
6	Note: A new truncation correction for the configurational temperature extends its applicability to interaction potentials with a discontinuous force. <i>Journal of Chemical Physics</i> , 2016, 144, 056101.	3.0	1
7	Decreased Interfacial Tension of Demixed Aqueous Polymer Solutions due to Charge. <i>Physical Review Letters</i> , 2015, 115, 078303.	7.8	30
8	Effects of Electric Charge on the Interfacial Tension between Coexisting Aqueous Mixtures of Polyelectrolyte and Neutral Polymer. <i>Macromolecules</i> , 2015, 48, 7335-7345.	4.8	17
9	Composition, concentration and charge profiles of water-water interfaces. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 464101.	1.8	19
10	Density functional theory of a curved liquid-vapour interface: evaluation of the rigidity constants. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 225003.	1.8	33
11	Existence of a bending rigidity for a hard-sphere liquid near a curved hard wall: Validity of the Hadwiger theorem. <i>Physical Review E</i> , 2013, 87, 022401.	2.1	23
12	Triezenberg-Zwanzig expression for the surface tension of a liquid drop. <i>Journal of Chemical Physics</i> , 2013, 138, 194711.	3.0	1
13	Tension, Rigidity, and Preferential Curvature of Interfaces between Coexisting Polymer Solutions. <i>Macromolecules</i> , 2013, 46, 3639-3647.	4.8	20
14	Wetting reversal in colloid-polymer systems. <i>Physical Review E</i> , 2010, 81, 051602.	2.1	2
15	On the spectrum of fluctuations of a liquid surface: From the molecular scale to the macroscopic scale. <i>Journal of Chemical Physics</i> , 2009, 130, 014706.	3.0	38
16	Direct determination of the Tolman length from the bulk pressures of liquid drops via molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2009, 131, 164705.	3.0	79
17	Wetting and drying transitions in mean-field theory: Describing the surface parameters for the theory of Nakanishi and Fisher in terms of a microscopic model. <i>Journal of Chemical Physics</i> , 2009, 131, 044702.	3.0	8
18	Description of the Fluctuating Colloid-Polymer Interface. <i>Physical Review Letters</i> , 2008, 101, 086101.	7.8	36

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19	Comment on "Symmetric Liquid-liquid Interface with a Nonzero Spontaneous Curvature" Physical Review Letters, 2007, 98, 039601; discussion 039602.	7.8	1
20	On the determination of the structure and tension of the interface between a fluid and a curved hard wall. Journal of Chemical Physics, 2007, 126, 054702.	3.0	27
21	Interfacial properties of colloid-polymer mixtures. Journal of Colloid and Interface Science, 2007, 315, 270-277.	9.4	8
22	Thermodynamic expressions for the Tolman length. Journal of Chemical Physics, 2006, 124, 074701.	3.0	102
23	Self-Consistent Field Theory for the Distal Ordering of Adsorbed Polymer: Comparison with the Scheutjens-Fleer Model. Macromolecules, 2004, 37, 1969-1979.	4.8	3
24	Polymer Adsorption on Curved Surfaces: Finite Chain Length Corrections. Macromolecules, 2003, 36, 4637-4645.	4.8	16
25	Free energy formalism for polymer adsorption: Self-consistent field theory for weak adsorption. Journal of Chemical Physics, 2003, 119, 3483-3494.	3.0	14
26	Determination of curvature corrections to the surface tension of a liquid-vapor interface through molecular dynamics simulations. Journal of Chemical Physics, 2002, 116, 302.	3.0	82
27	Title is missing!. European Physical Journal E, 2002, 7, 13-22.	1.6	9
28	Sphere to cylinder transition in a single phase microemulsion system: A theoretical investigation. Journal of Chemical Physics, 2001, 115, 1073-1085.	3.0	24
29	Rigidity constants from mean-field models. Journal of Chemical Physics, 2000, 112, 2980-2986.	3.0	12
30	Correspondence between the pressure expressions and van der Waals theory for a curved surface. Journal of Chemical Physics, 2000, 112, 6023-6030.	3.0	8
31	Comment on "Effect of gravity on contact angle: A theoretical investigation" [J. Chem. Phys. 109, 3651 (1998)]. Journal of Chemical Physics, 2000, 112, 5511-5512.	3.0	6
32	A small angle x-ray scattering study of the droplet-cylinder transition in oil-rich sodium bis(2-ethylhexyl) sulfosuccinate microemulsions. Journal of Chemical Physics, 2000, 113, 1651-1665.	3.0	74
33	Vesicle adhesion and microemulsion droplet dimerization: Small bending rigidity regime. Journal of Chemical Physics, 1999, 111, 7062-7074.	3.0	9
34	Fluctuation route to the bending rigidity. Molecular Physics, 1999, 96, 397-406.	1.7	16
35	Helfrich free energy for aggregation and adhesion. Journal of Chemical Physics, 1999, 110, 3148-3152.	3.0	14
36	Fluctuation route to the bending rigidity. Molecular Physics, 1999, 96, 397-406.	1.7	9

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37	Mean field curvature corrections to the surface tension. Journal of Chemical Physics, 1998, 108, 1148-1156.	3.0	101
38	Curvature energy for droplet dimerization and aggregation in microemulsions. , 1998, , 258-262.		6
39	Calculation of the Rigidity Constant in a Landau Model for Microemulsions. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 313-319.	0.9	4
40	Wetting. Current Opinion in Colloid and Interface Science, 1996, 1, 424-429.	7.4	25
41	Boundary tension between amphiphilic layers. International Journal of Thermophysics, 1995, 16-16, 53-62.	2.1	2
42	Structure and tension of the boundary line between amphiphilic layers. Physica A: Statistical Mechanics and Its Applications, 1995, 214, 169-184.	2.6	4
43	Nucleation of wetting layers. Physical Review E, 1995, 51, 4642-4654.	2.1	18
44	Line and boundary tensions at the wetting transition: Two fluid phases on a substrate. Journal of Chemical Physics, 1995, 102, 400-413.	3.0	25
45	Young's law with gravity. Molecular Physics, 1995, 86, 891-899.	1.7	41
46	Boundary tension: From wetting transition to prewetting critical point. Journal of Chemical Physics, 1995, 102, 7584-7594.	3.0	12
47	Tail corrections to the surface tension of a Lennard-Jones liquid-vapour interface. Molecular Physics, 1995, 85, 665-669.	1.7	167
48	Line tension between two surface phases on a substrate. Physica A: Statistical Mechanics and Its Applications, 1994, 202, 402-419.	2.6	23
49	Curvature effects on the one-dimensional fluid interface. Physica A: Statistical Mechanics and Its Applications, 1993, 193, 201-220.	2.6	1
50	Van der Waals theory of curved surfaces. Molecular Physics, 1993, 80, 705-720.	1.7	73
51	Pressure tensor of a spherical interface. Journal of Chemical Physics, 1992, 97, 3576-3586.	3.0	105
52	Derivation of microscopic expressions for the rigidity constants of a simple liquid-vapor interface. Physica A: Statistical Mechanics and Its Applications, 1992, 184, 42-70.	2.6	76
53	Microscopic expressions for the rigidity constants of a simple liquid-vapor interface. Journal of Chemical Physics, 1991, 95, 6986-6988.	3.0	33
54	Ellipsometry of the liquid-vapor interface close to the critical point: A theoretical analysis. International Journal of Thermophysics, 1990, 11, 13-24.	2.1	7

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55	Optical properties of the fluid-fluid interface. Physica A: Statistical Mechanics and Its Applications, 1990, 164, 515-548.	2.6	21
56	Consistency of capillary wave theory in three dimensions: Divergence of the interface width and agreement with density functional theory. Journal of Chemical Physics, 1989, 91, 6494-6504.	3.0	17