Malgorzata Borwko

List of Publications by Year in Descending Order

94 papers	1,068 citations	19 h-index	27 g-index
100 ext. papers	1,136 ext. citations	4.6 avg, IF	4.04 L-index

#	Paper	IF	Citations
94	Adsorption-induced co-assembly of hairy and isotropic particles. *Physical Chemistry Chemical Physics*, **2020**, 22, 8757-8767	3.6	1
93	Self-Assembly of Amphiphilic Janus Particles Confined between Two Solid Surfaces. *Journal of Physical Chemistry C*, **2020**, 124, 17556-17565	3.8	5
92	Self-assembly of Janus disks confined in a slit. *Journal of Chemical Physics*, **2019**, 151, 104703	3.9	2
91	Self-assembly of rod-coil copolymer tethered disks on surfaces. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 570, 499-509	5.1	2
90	Amphiphilic Dimers at Liquid-Liquid Interfaces: A Density Functional Approach. *Journal of Physical Chemistry B*, **2019**, 123, 5962-5972	3.4	3
89	Self-assembly in two-dimensional mixtures of Janus disks and isotropic particles. *Journal of Chemical Physics*, **2019**, 150, 044705	3.9	4
88	Janus dumbbells near surfaces modified with tethered chains. *Adsorption*, **2019**, 25, 459-468	2.6	2
87	Self-organisation in two dimensional system involving patchy and isotropic disks. *Molecular Physics*, **2019**, 117, 2802-2813	1.7	3
86	Adsorption of hairy particles with mobile ligands: Molecular dynamics and density functional study. *Journal of Chemical Physics*, **2018**, 148, 044705	3.9	2
85	Self-assembly of hairy disks in two dimensions - insights from molecular simulations. *Soft Matter*, **2018**, 14, 3115-3126	3.6	7
84	Molecular dynamics simulations of mono-tethered particles at solid surfaces. *Physical Chemistry Chemical Physics*, **2018**, 20, 20194-20204	3.6	0
83	Molecular dynamics and density functional study of the structure of hairy particles at a hard wall. *Journal of Molecular Liquids*, **2018**, 270, 191-202	6	0
82	Self-assembly of Janus disks induced by small molecules in two-dimensional systems. *Journal of Chemical Physics*, **2017**, 147, 014904	3.9	10
81	Integral equations theory for two-dimensional systems involving nanoparticles*. *Molecular Physics*, **2017**, 115, 1065-1073	1.7	5
80	Phase behavior of decorated soft disks in two dimensions. *Journal of Chemical Physics*, **2016**, 145, 224703	3.9	8
79	Adsorption on chemically bonded chain layers with embedded active groups. *Molecular Physics*, **2015**, 113, 1014-1021	1.7	3
78	Phase transitions and self-organization of Janus disks in two dimensions studied by Monte Carlo simulations. *Physical Review E*, **2014**, 90, 062308	2.4	12

77	Adsorption-induced changes of the structure of the tethered chain layers in a simple fluid. *Journal of Chemical Physics*, **2014**, 140, 234904	3.9	0
76	Terminally grafted chain layers in oligomer-monomer solutions: predictions from a density functional theory. *Journal of Physical Chemistry B*, **2013**, 117, 10293-303	3.4	7
75	Janus particles at walls modified with tethered chains. *Journal of Physical Chemistry B*, **2013**, 117, 1166-75	3.4	17
74	Stretching tethered polymer chains: density functional approach. *Journal of Chemical Physics*, **2013**, 138, 204707	3.9	4
73	Adsorption from binary solutions on the polymer-tethered surfaces. *Journal of Physical Chemistry B*, **2012**, 116, 3115-24	3.4	10
72	Adsorption from oligomer-monomer solutions on the surfaces modified with end-grafted chains. *Journal of Physical Chemistry B*, **2012**, 116, 12842-9	3.4	7
71	Adsorption of ions on surfaces modified with brushes of polyampholytes. *Journal of Chemical Physics*, **2012**, 137, 074707	3.9	11
70	A density functional approach to retention in chromatography with chemically bonded phases. *Journal of Chromatography A*, **2011**, 1218, 711-20	4.5	10
69	Adsorption of oligomers on the polymer-tethered surfaces. *Journal of Colloid and Interface Science*, **2011**, 356, 267-76	9.3	12
68	A critical behavior of the Lennard□ones dimeric fluid in two-dimensions.: A Monte Carlo study. *Surface Science*, **2011**, 605, 1219-1223	1.8	7
67	Unusual mechanism of capillary condensation in pores modified with chains forming pillars. *Journal of Chemical Physics*, **2011**, 135, 054703	3.9	2
66	Phase behavior of linear heterogeneous trimers on a square lattice. *Journal of Chemical Physics*, **2011**, 135, 194702	3.9	3
65	Complex phase behavior of a fluid in slits with semipermeable walls modified with tethered chains. *Journal of Chemical Physics*, **2011**, 134, 044705	3.9	6
64	Selectivity in normal-phase liquid chromatography with binary mobile phase. *Adsorption*, **2010**, 16, 397-403	2.6	1
63	Influence of a small amount of tethered chains on wetting transitions: A density functional approach. *Collection of Czechoslovak Chemical Communications*, **2010**, 75, 221-241		8
62	Density functional approach to adsorption and retention of spherical molecules on surfaces modified with end-grafted polymers. *Journal of Physical Chemistry B*, **2009**, 113, 4763-70	3.4	26
61	Phase behavior of a fluid confined in slitlike pores with walls modified by preadsorbed chain molecules. *Journal of Chemical Physics*, **2008**, 128, 044702	3.9	11
60	Adsorption of short heteropolymers in slitlike pores. *Journal of Colloid and Interface Science*, **2007**, 314, 349-57	9.3	4

59	Density functional approach to the adsorption of spherical molecules on a surface modified with attached short chains. *Journal of Chemical Physics*, **2007**, 126, 214703	3.9	36
58	Adsorption of short chains in slitlike pores: a quantitative comparison between density functional approach and Monte Carlo simulations. *Molecular Physics*, **2006**, 104, 3479-3489	1.7	5
57	Phase behavior of unsymmetrical dimers on a square lattice. *Surface Science*, **2006**, 600, 890-896	1.8	23
56	Theory of retention in reversed phase liquid chromatography with ternary mobile phases. *Journal of Physical Chemistry B*, **2005**, 109, 21056-62	3.4	7
55	Adsorption of fluids in slitlike pores containing a small amount of mobile ions. *Journal of Colloid and Interface Science*, **2005**, 291, 223-8	9.3	1
54	Adsorption model for retention in normal-phase liquid chromatography with ternary mobile phases. *Advances in Colloid and Interface Science*, **2005**, 118, 113-24	14.3	3
53	Adsorption-driven retention in normal-phase chromatography with ternary mobile phases. *Journal of Chromatographic Science*, **2005**, 43, 126-32	1.4	1
52	Phase behavior of linear trimers confined to a narrow slit. *Physical Review B*, **2004**, 69,	3.3	2
51	Monte Carlo study of adsorption of heteronuclear dimers on heterogeneous surfaces. *Thin Solid Films*, **2003**, 425, 304-311	2.2	22
50	Phase behaviour of heteronuclear dimers adsorbed on square and triangular lattices□ Monte Carlo study. *Physica A: Statistical Mechanics and Its Applications*, **2003**, 326, 1-12	3.3	8
49	Computer simulation of phase diagrams of trimers adsorbed on a square lattice. *Physical Review B*, **2003**, 67,	3.3	17
48	Application of Soczewi□ki-type equation to study molecular interactions in liquid adsorption chromatography. *Chromatographia*, **2002**, 55, 491-495	2.1	5
47	Fractal dimension of peat soils from adsorption and from water retention experiments. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2002**, 208, 289-301	5.1	10
46	Non-universal critical behaviour of heteronuclear dimers on a square lattice□ Monte Carlo study. *Surface Science*, **2002**, 520, 151-157	1.8	28
45	Phase diagrams of heteronuclear dimers adsorbed on a square lattice. *Journal of Chemical Physics*, **2002**, 117, 4526-4531	3.9	43
44	Adsorption of nitrogen and water vapor by alluvial soils. *Geoderma*, **2002**, 107, 33-54	6.7	21
43	Critical Behavior of Dimers in Monolayers Adsorbed on Heterogeneous Solid Surfaces. *Journal of Colloid and Interface Science*, **2001**, 244, 1-8	9.3	26
42	Chemical equilibria in slitlike pores. *Journal of Chemical Physics*, **2001**, 114, 5397-5403	3.9	26

41	Wetting of Crystalline Solids by Associating Fluids. *Journal of Colloid and Interface Science*, **2000**, 225, 147-153	9.3	1
40	Computer simulation of the chemical potential of binary Lennard-Jones mixtures. *Journal of Chemical Physics*, **2000**, 112, 2315-2318	3.9	6
39	The structure of associating hard spheres adsorbed on crystalline solids: a density functional approach. *Molecular Physics*, **1999**, 96, 885-892	1.7	1
38	Evaluation of liquid-vapour density profiles of associating fluids: A density-functional approach. *European Physical Journal D*, **1999**, 49, 1067-1075		11
37	Adsorption of Nitrogen on Thermally Treated Peat Soils: The Role of Energetic and Geometric Heterogeneity. *Journal of Colloid and Interface Science*, **1999**, 219, 1-10	9.3	12
36	Chemical reactions at surfaces: Application of the reaction ensamble monte carlo method. *European Physical Journal D*, **1998**, 48, 371-388		11
35	Monte Carlo studies of wetting behaviour of a model associating fluid. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 771-775		4
34	A Monte Carlo Study of Adsorption from Mixtures of Dimers and Monomers on Heterogeneous Solid Surfaces *Langmuir*, **1997**, 13, 1073-1078	4	8
33	Adsorption of Rigid-Rod Trimers from Liquid Mixture with Monomers on Heterogeneous Surfaces. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1997**, 101, 84-90		5
32	Adsorption from binary solution in slit shaped pores. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1997**, 101, 1050-1056		7
31	Theory of Adsorption from a Dimer Monomer Solution on a Patchwise Heterogeneous Surface. *Journal of Colloid and Interface Science*, **1996**, 182, 268-274	9.3	13
30	Monte Carlo study of adsorption from binary solution on heterogeneous surfaces. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 3195-3200		5
29	Modeling of Adsorption from Ternary Solutions on Solids: Isolines of Real and Excess Adsorption. *Journal of Colloid and Interface Science*, **1995**, 175, 173-180	9.3	8
28	Adsorption of Solvents and Molecular Interactions in LSC with a Ternary Mobile Phase. *Journal of Liquid Chromatography and Related Technologies*, **1991**, 14, 2633-2645		4
27	On Application of the Snyder-Soczewinski Equation for Describing of LSC Process with a Ternary Mobile Phase. *Journal of Liquid Chromatography and Related Technologies*, **1991**, 14, 1247-1256		3
26	Studies of adsorption and partition effects in liquid chromatography with mixed mobile phases. *Journal of Chromatography A*, **1988**, 452, 131-135	4.5	2
25	Reversed-Phase Liquid Chromatography with Mixed Eluents: Partition Model of Retention for Ionogenic Solutes. *Journal of Liquid Chromatography and Related Technologies*, **1987**, 10, 2033-2045		3
24	A Simple Dependence of the Capacity Ratio on the Composition of the Mobile Phase in Liquid-Solid Chromatography. *Journal of Liquid Chromatography and Related Technologies*, **1986**, 9, 1837-1847		2

23	Solute Dissociation Effects in Reversed Phase Liquid Chromatography with Mixed Eluents. *Journal of Liquid Chromatography and Related Technologies*, **1986**, 9, 1951-1969		1
22	Theoretical basis of liquid adsorption chromatography with mixed mobile phases and its connection with the theory of adsorption from multicomponent solutions. *Advances in Colloid and Interface Science*, **1985**, 22, 177-227	14.3	50
21	Liquid Chromatography with Mixed Mobile Phases: Interpretation of the Model Chromatographic Data by Means of the Simple Linear Relationship. *Journal of Liquid Chromatography and Related Technologies*, **1985**, 8, 1965-1987		6
20	Multilayer effects in liquid adsorption chromatography with mixed mobile phases. *Journal of High Resolution Chromatography*, **1984**, 7, 203-207		1
19	Liquid adsorption chromatography with multicomponent mobile phase. *Journal of Colloid and Interface Science*, **1984**, 102, 519-526	9.3	20
18	Current state in adsorption from multicomponent solutions of nonelectrolytes on solids. *Advances in Colloid and Interface Science*, **1983**, 19, 137-177	14.3	50
17	Association effects in adsorption from multicomponent solutions on solids and liquid adsorption chromatography. *Journal of the Chemical Society Faraday Transactions I*, **1983**, 79, 363		24
16	Adsorption from multicomponent solutions on homogeneous solid surfaces. *Journal of Colloid and Interface Science*, **1982**, 85, 540-548	9.3	12
15	Statistical thermodynamics of adsorption from multicomponent liquid mixtures on heterogeneous solid surfaces. *Monatshefte F□ Chemie*, **1981**, 112, 59-71	1.4	22
14	Statistical Thermodynamics of Monolayer Adsorption from Gas and Liquid Mixtures on Homogeneous and Heterogeneous Solid Surfaces. *Progress in Surface and Membrane Science*, **1981**, 14, 1-68		43
13	The adsorbate-adsorbate association model in mixed gas adsorption on homogeneous solid surfaces. *Thin Solid Films*, **1980**, 69, 369-378	2.2	10
12	Adsorption of multicomponent liquid mixtures on heterogeneous surfaces. *Journal of Colloid and Interface Science*, **1979**, 69, 311-317	9.3	31
11	Determination of the capacity ratio and concentration-time function for stepwise elution with binary mobile phase with help of liquid chromatography data obtained from isocratic elution. *Chromatographia*, **1979**, 12, 29-32	2.1	6
10	Dependence of the distribution coefficient on the mobile phase composition in liquid adsorption chromatography. II. Analytical equations for the distribution coefficient involving non-ideality of the mobile phase and heterogeneity of the adsorbent surface. *Chromatographia*, **1979**, 12, 672-678	2.1	24
9	Adsorption from Multicomponent Mixtures on Heterogeneous Solid Surfaces. *Zeitschrift Fur Physikalische Chemie*, **1979**, 260O, 1027-1032	3.1	4
8	Dependence of the capacity ratio on the composition of the binary mobile phase in liquid□solid adsorption chromatography. *Journal of Chromatography A*, **1978**, 157, 1-5	4.5	18
7	Gradient optimization in elution liquid chromatography. *Journal of Chromatography A*, **1978**, 153, 309-318	4.5	24
6	Gradient optimization in elution liquid chromatography. *Journal of Chromatography A*, **1978**, 153, 321-328	4.5	19

5	Numerical studies of gas adsorption on heterogeneous solid surfaces by using the model of associated adsorbate. *Journal of Colloid and Interface Science*, **1978**, 63, 362-368	9.3	16
4	Dependence of the capacity ratio on mobile phase composition in liquid adsorption chromatography. *Chromatographia*, **1978**, 11, 581-585	2.1	45
3	Consequences of assuming the Bragg-Williams approximation in mixed-gas adsorption. *Surface Science*, **1978**, 78, L501-L503	1.8	13
2	Supplementary note to the paper Adsorption of gas mixtures on heterogeneous surfaces *Surface Science*, **1977**, 66, 652-654	1.8	7
1	Extension of the model of associated adsorbate to adsorption on patchwise heterogeneous surfaces. *Thin Solid Films*, **1977**, 46, 239-247	2.2	7