

# Malgorzata Borwko

## List of Publications by Citations

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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	Current state in adsorption from multicomponent solutions of nonelectrolytes on solids. <i>Advances in Colloid and Interface Science</i> , <b>1983</b> , 19, 137-177	14.3	50
93	Theoretical basis of liquid adsorption chromatography with mixed mobile phases and its connection with the theory of adsorption from multicomponent solutions. <i>Advances in Colloid and Interface Science</i> , <b>1985</b> , 22, 177-227	14.3	50
92	Dependence of the capacity ratio on mobile phase composition in liquid adsorption chromatography. <i>Chromatographia</i> , <b>1978</b> , 11, 581-585	2.1	45
91	Phase diagrams of heteronuclear dimers adsorbed on a square lattice. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 4526-4531	3.9	43
90	Statistical Thermodynamics of Monolayer Adsorption from Gas and Liquid Mixtures on Homogeneous and Heterogeneous Solid Surfaces. <i>Progress in Surface and Membrane Science</i> , <b>1981</b> , 14, 1-68		43
89	Density functional approach to the adsorption of spherical molecules on a surface modified with attached short chains. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 214703	3.9	36
88	Adsorption of multicomponent liquid mixtures on heterogeneous surfaces. <i>Journal of Colloid and Interface Science</i> , <b>1979</b> , 69, 311-317	9.3	31
87	Non-universal critical behaviour of heteronuclear dimers on a square lattice – Monte Carlo study. <i>Surface Science</i> , <b>2002</b> , 520, 151-157	1.8	28
86	Density functional approach to adsorption and retention of spherical molecules on surfaces modified with end-grafted polymers. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 4763-70	3.4	26
85	Critical Behavior of Dimers in Monolayers Adsorbed on Heterogeneous Solid Surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 244, 1-8	9.3	26
84	Chemical equilibria in slitlike pores. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 5397-5403	3.9	26
83	Association effects in adsorption from multicomponent solutions on solids and liquid adsorption chromatography. <i>Journal of the Chemical Society Faraday Transactions I</i> , <b>1983</b> , 79, 363		24
82	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. <i>Chromatographia</i> , <b>1979</b> , 12, 672-678	2.1	24
81	Gradient optimization in elution liquid chromatography. <i>Journal of Chromatography A</i> , <b>1978</b> , 153, 309-314	2.5	24
80	Phase behavior of unsymmetrical dimers on a square lattice. <i>Surface Science</i> , <b>2006</b> , 600, 890-896	1.8	23
79	Monte Carlo study of adsorption of heteronuclear dimers on heterogeneous surfaces. <i>Thin Solid Films</i> , <b>2003</b> , 425, 304-311	2.2	22
78	Statistical thermodynamics of adsorption from multicomponent liquid mixtures on heterogeneous solid surfaces. <i>Monatshefte für Chemie</i> , <b>1981</b> , 112, 59-71	1.4	22

77	Adsorption of nitrogen and water vapor by alluvial soils. <i>Geoderma</i> , <b>2002</b> , 107, 33-54	6.7	21
76	Liquid adsorption chromatography with multicomponent mobile phase. <i>Journal of Colloid and Interface Science</i> , <b>1984</b> , 102, 519-526	9.3	20
75	Gradient optimization in elution liquid chromatography. <i>Journal of Chromatography A</i> , <b>1978</b> , 153, 321-328	4.5	19
74	Dependence of the capacity ratio on the composition of the binary mobile phase in liquid-solid adsorption chromatography. <i>Journal of Chromatography A</i> , <b>1978</b> , 157, 1-5	4.5	18
73	Janus particles at walls modified with tethered chains. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 1166-754	5.4	17
72	Computer simulation of phase diagrams of trimers adsorbed on a square lattice. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	17
71	Numerical studies of gas adsorption on heterogeneous solid surfaces by using the model of associated adsorbate. <i>Journal of Colloid and Interface Science</i> , <b>1978</b> , 63, 362-368	9.3	16
70	Theory of Adsorption from a Dimer-Monomer Solution on a Patchwise Heterogeneous Surface. <i>Journal of Colloid and Interface Science</i> , <b>1996</b> , 182, 268-274	9.3	13
69	Consequences of assuming the Bragg-Williams approximation in mixed-gas adsorption. <i>Surface Science</i> , <b>1978</b> , 78, L501-L503	1.8	13
68	Phase transitions and self-organization of Janus disks in two dimensions studied by Monte Carlo simulations. <i>Physical Review E</i> , <b>2014</b> , 90, 062308	2.4	12
67	Adsorption of oligomers on the polymer-tethered surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 356, 267-76	9.3	12
66	Adsorption of Nitrogen on Thermally Treated Peat Soils: The Role of Energetic and Geometric Heterogeneity. <i>Journal of Colloid and Interface Science</i> , <b>1999</b> , 219, 1-10	9.3	12
65	Adsorption from multicomponent solutions on homogeneous solid surfaces. <i>Journal of Colloid and Interface Science</i> , <b>1982</b> , 85, 540-548	9.3	12
64	Adsorption of ions on surfaces modified with brushes of polyampholytes. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 074707	3.9	11
63	Chemical reactions at surfaces: Application of the reaction ensemble monte carlo method. <i>European Physical Journal D</i> , <b>1998</b> , 48, 371-388		11
62	Phase behavior of a fluid confined in slitlike pores with walls modified by preadsorbed chain molecules. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 044702	3.9	11
61	Evaluation of liquid-vapour density profiles of associating fluids: A density-functional approach. <i>European Physical Journal D</i> , <b>1999</b> , 49, 1067-1075		11
60	Self-assembly of Janus disks induced by small molecules in two-dimensional systems. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 014904	3.9	10

59	Adsorption from binary solutions on the polymer-tethered surfaces. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 3115-24	3.4	10
58	A density functional approach to retention in chromatography with chemically bonded phases. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 711-20	4.5	10
57	Fractal dimension of peat soils from adsorption and from water retention experiments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2002</b> , 208, 289-301	5.1	10
56	The adsorbate-adsorbate association model in mixed gas adsorption on homogeneous solid surfaces. <i>Thin Solid Films</i> , <b>1980</b> , 69, 369-378	2.2	10
55	A Monte Carlo Study of Adsorption from Mixtures of Dimers and Monomers on Heterogeneous Solid Surfaces $\square$ <i>Langmuir</i> , <b>1997</b> , 13, 1073-1078	4	8
54	Phase behaviour of heteronuclear dimers adsorbed on square and triangular lattices $\square$ Monte Carlo study. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2003</b> , 326, 1-12	3.3	8
53	Modeling of Adsorption from Ternary Solutions on Solids: Isolines of Real and Excess Adsorption. <i>Journal of Colloid and Interface Science</i> , <b>1995</b> , 175, 173-180	9.3	8
52	Influence of a small amount of tethered chains on wetting transitions: A density functional approach. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2010</b> , 75, 221-241		8
51	Phase behavior of decorated soft disks in two dimensions. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 224703.9		8
50	Self-assembly of hairy disks in two dimensions - insights from molecular simulations. <i>Soft Matter</i> , <b>2018</b> , 14, 3115-3126	3.6	7
49	Terminally grafted chain layers in oligomer-monomer solutions: predictions from a density functional theory. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 10293-303	3.4	7
48	Adsorption from oligomer-monomer solutions on the surfaces modified with end-grafted chains. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 12842-9	3.4	7
47	A critical behavior of the Lennard-Jones dimeric fluid in two-dimensions.: A Monte Carlo study. <i>Surface Science</i> , <b>2011</b> , 605, 1219-1223	1.8	7
46	Adsorption from binary solution in slit shaped pores. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1997</b> , 101, 1050-1056		7
45	Theory of retention in reversed phase liquid chromatography with ternary mobile phases. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 21056-62	3.4	7
44	Supplementary note to the paper $\square$ Adsorption of gas mixtures on heterogeneous surfaces $\square$ <i>Surface Science</i> , <b>1977</b> , 66, 652-654	1.8	7
43	Extension of the model of associated adsorbate to adsorption on patchwise heterogeneous surfaces. <i>Thin Solid Films</i> , <b>1977</b> , 46, 239-247	2.2	7
42	Complex phase behavior of a fluid in slits with semipermeable walls modified with tethered chains. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 044705	3.9	6

41	Computer simulation of the chemical potential of binary Lennard-Jones mixtures. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 2315-2318	3.9	6
40	Liquid Chromatography with Mixed Mobile Phases: Interpretation of the Model Chromatographic Data by Means of the Simple Linear Relationship. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>1985</b> , 8, 1965-1987		6
39	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. <i>Chromatographia</i> , <b>1979</b> , 12, 29-32	2.1	6
38	Integral equations theory for two-dimensional systems involving nanoparticles*. <i>Molecular Physics</i> , <b>2017</b> , 115, 1065-1073	1.7	5
37	Adsorption of Rigid-Rod Trimers from Liquid Mixture with Monomers on Heterogeneous Surfaces. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1997</b> , 101, 84-90		5
36	Adsorption of short chains in slitlike pores: a quantitative comparison between density functional approach and Monte Carlo simulations. <i>Molecular Physics</i> , <b>2006</b> , 104, 3479-3489	1.7	5
35	Application of Soczewiński-type equation to study molecular interactions in liquid adsorption chromatography. <i>Chromatographia</i> , <b>2002</b> , 55, 491-495	2.1	5
34	Monte Carlo study of adsorption from binary solution on heterogeneous surfaces. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1995</b> , 91, 3195-3200		5
33	Self-Assembly of Amphiphilic Janus Particles Confined between Two Solid Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 17556-17565	3.8	5
32	Self-assembly in two-dimensional mixtures of Janus disks and isotropic particles. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 044705	3.9	4
31	Stretching tethered polymer chains: density functional approach. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 204707	3.9	4
30	Monte Carlo studies of wetting behaviour of a model associating fluid. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1998</b> , 94, 771-775		4
29	Adsorption of short heteropolymers in slitlike pores. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 314, 349-57	9.3	4
28	Adsorption of Solvents and Molecular Interactions in LSC with a Ternary Mobile Phase. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>1991</b> , 14, 2633-2645		4
27	Adsorption from Multicomponent Mixtures on Heterogeneous Solid Surfaces. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>1979</b> , 2600, 1027-1032	3.1	4
26	Amphiphilic Dimers at Liquid-Liquid Interfaces: A Density Functional Approach. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 5962-5972	3.4	3
25	Adsorption on chemically bonded chain layers with embedded active groups. <i>Molecular Physics</i> , <b>2015</b> , 113, 1014-1021	1.7	3
24	Phase behavior of linear heterogeneous trimers on a square lattice. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 194702	3.9	3

23	Adsorption model for retention in normal-phase liquid chromatography with ternary mobile phases. <i>Advances in Colloid and Interface Science</i> , <b>2005</b> , 118, 113-24	14.3	3
22	On Application of the Snyder-Soczewinski Equation for Describing of LSC Process with a Ternary Mobile Phase. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>1991</b> , 14, 1247-1256		3
21	Reversed-Phase Liquid Chromatography with Mixed Eluents: Partition Model of Retention for Ionogenic Solutes. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>1987</b> , 10, 2033-2045		3
20	Self-organisation in two dimensional system involving patchy and isotropic disks. <i>Molecular Physics</i> , <b>2019</b> , 117, 2802-2813	1.7	3
19	Self-assembly of Janus disks confined in a slit. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 104703	3.9	2
18	Self-assembly of rod-coil copolymer tethered disks on surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 570, 499-509	5.1	2
17	Adsorption of hairy particles with mobile ligands: Molecular dynamics and density functional study. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 044705	3.9	2
16	Unusual mechanism of capillary condensation in pores modified with chains forming pillars. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 054703	3.9	2
15	Phase behavior of linear trimers confined to a narrow slit. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	2
14	A Simple Dependence of the Capacity Ratio on the Composition of the Mobile Phase in Liquid-Solid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>1986</b> , 9, 1837-1847		2
13	Studies of adsorption and partition effects in liquid chromatography with mixed mobile phases. <i>Journal of Chromatography A</i> , <b>1988</b> , 452, 131-135	4.5	2
12	Janus dumbbells near surfaces modified with tethered chains. <i>Adsorption</i> , <b>2019</b> , 25, 459-468	2.6	2
11	Adsorption-induced co-assembly of hairy and isotropic particles. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 8757-8767	3.6	1
10	Selectivity in normal-phase liquid chromatography with binary mobile phase. <i>Adsorption</i> , <b>2010</b> , 16, 397-403	4.0	1
9	Adsorption of fluids in slitlike pores containing a small amount of mobile ions. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 291, 223-8	9.3	1
8	Adsorption-driven retention in normal-phase chromatography with ternary mobile phases. <i>Journal of Chromatographic Science</i> , <b>2005</b> , 43, 126-32	1.4	1
7	Wetting of Crystalline Solids by Associating Fluids. <i>Journal of Colloid and Interface Science</i> , <b>2000</b> , 225, 147-153	9.3	1
6	The structure of associating hard spheres adsorbed on crystalline solids: a density functional approach. <i>Molecular Physics</i> , <b>1999</b> , 96, 885-892	1.7	1

5	Solute Dissociation Effects in Reversed Phase Liquid Chromatography with Mixed Eluents. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>1986</b> , 9, 1951-1969		1
4	Multilayer effects in liquid adsorption chromatography with mixed mobile phases. <i>Journal of High Resolution Chromatography</i> , <b>1984</b> , 7, 203-207		1
3	Molecular dynamics simulations of mono-tethered particles at solid surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 20194-20204	3.6	0
2	Adsorption-induced changes of the structure of the tethered chain layers in a simple fluid. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 234904	3.9	0
1	Molecular dynamics and density functional study of the structure of hairy particles at a hard wall. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 270, 191-202	6	0