

Zuzana Limpouchova

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	DPD Modelling of the Self- and Co-Assembly of Polymers and Polyelectrolytes in Aqueous Media: Impact on Polymer Science. <i>Polymers</i> , 2022, 14, 404.	4.5	16
2	Solubilization of Charged Porphyrins in Interpolyelectrolyte Complexes: A Computer Study. <i>Polymers</i> , 2021, 13, 502.	4.5	4
3	Phase Equilibria and Conformational Behavior of Dendrimers in Porous Media: Towards Chromatographic Analysis of Dendrimers. <i>Journal of Colloid and Interface Science</i> , 2021, 608, 830-839.	9.4	3
4	Onion Micelles with an Interpolyelectrolyte Complex Middle Layer: Experimental Motivation and Computer Study. <i>Macromolecules</i> , 2020, 53, 6780-6795.	4.8	8
5	Partitioning of polymers between bulk and porous media: Monte Carlo study of the effect of pore size distribution. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 103-112.	9.4	8
6	Separation of polymers differing in their chain architecture by interaction chromatography: Phase equilibria and conformational behavior of polymers in strongly adsorbing porous media. <i>Polymer</i> , 2019, 175, 99-106.	3.8	6
7	Pore size effect on the separation of polymers by interaction chromatography. A Monte Carlo study. <i>Analytica Chimica Acta</i> , 2019, 1064, 126-137.	5.4	6
8	Adsorption of amphiphilic graft copolymers in solvents selective for the grafts on a lyophobic surface: a coarse-grained simulation study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6533-6547.	2.8	12
9	Effect of preferential solvation of polymer chains on vapor-pressure osmometry results: Computer simulation study. <i>International Journal of Polymer Analysis and Characterization</i> , 2018, 23, 244-251.	1.9	0
10	Computer study of the solubilization of polymer chains in polyelectrolyte complex cores of polymeric nanoparticles in aqueous media. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29876-29888.	2.8	10
11	Coassembly of Poly(<i>N</i> -isopropylacrylamide) with Dodecyl and Carboxyl Terminal Groups with Cationic Surfactant: Critical Comparison of Experimental and Simulation Data. <i>Macromolecules</i> , 2018, 51, 7295-7308.	4.8	5
12	Conformational behavior of polymer chains of different architectures in strongly endothermic solvent mixtures: specific solvation effects. <i>Colloid and Polymer Science</i> , 2017, 295, 1391-1403.	2.1	1
13	Stabilization of coated inorganic nanoparticles by amphiphilic copolymers in aqueous media. Dissipative particle dynamics study. <i>Colloid and Polymer Science</i> , 2017, 295, 1429-1441.	2.1	4
14	Influence of the Chain Architecture and the Presence of End-Groups or Branching Units Chemically Different from Repeating Structural Units on the Critical Adsorption Point in Liquid Chromatography. <i>Macromolecules</i> , 2017, 50, 8720-8730.	4.8	18
15	Dissipative particle dynamics simulations of polyelectrolyte self-assemblies. Methods with explicit electrostatics. <i>Polymer Science - Series C</i> , 2017, 59, 77-101.	1.7	13
16	Self-assembly and co-assembly of block polyelectrolytes in aqueous solutions. Dissipative particle dynamics with explicit electrostatics. <i>Molecular Physics</i> , 2016, 114, 3077-3092.	1.7	18
17	The self-assembly of copolymers with one hydrophobic and one polyelectrolyte block in aqueous media: a dissipative particle dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16127-16136.	2.8	36
18	The electrostatic co-assembly in non-stoichiometric aqueous mixtures of copolymers composed of one neutral water-soluble and one polyelectrolyte (either positively or negatively charged) block: a dissipative particle dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16137-16151.	2.8	21

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19	Computer study of chromatographic separation of mixtures of H-shaped and linear polymers in good and Γ -solvents. <i>Polymer</i> , 2016, 104, 10-21.	3.8	7
20	Computer Study of Chromatographic Separation Process: A Monte Carlo Study of H-Shaped and Linear Homopolymers in Good Solvent. <i>Macromolecules</i> , 2016, 49, 1093-1102.	4.8	13
21	Chromatographic study of the conformational behavior of graft copolymers with a broad distribution of grafting densities in dilute solutions in selective solvents for grafts. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2016, 39, 50-58.	1.0	11
22	Theoretical Principles of Fluorescence Spectroscopy. Springer Series on Fluorescence, 2016, , 91-149.	0.8	10
23	Dissipative Particle Dynamics Study of the pH-Dependent Behavior of Poly(2-vinylpyridine)- <i>block</i> -poly(ethylene oxide) Diblock Copolymer in Aqueous Buffers. <i>Macromolecules</i> , 2014, 47, 2503-2514.	4.8	62
24	Dissipative Particle Dynamics Study of Electrostatic Self-Assembly in Aqueous Mixtures of Copolymers Containing One Neutral Water-Soluble Block and One Either Positively or Negatively Charged Polyelectrolyte Block. <i>Macromolecules</i> , 2014, 47, 6121-6134.	4.8	49
25	Modeling of Ionization and Conformations of Starlike Weak Polyelectrolytes. <i>Macromolecules</i> , 2014, 47, 4004-4016.	4.8	58
26	Computer Study of the Association Behavior of Gradient Copolymers: Analysis of Simulation Results Based on a New Algorithm for Recognition and Classification of Aggregates. <i>Macromolecular Theory and Simulations</i> , 2013, 22, 61-70.	1.4	13
27	Double-exponential decay of orientational correlations in semiflexible polyelectrolytes. <i>European Physical Journal E</i> , 2012, 35, 53.	1.6	8
28	Depletion profiles for dilute solutions of linear chains, stars and H-branched molecules by self-consistent field calculations and Monte Carlo simulations. <i>Soft Matter</i> , 2011, 7, 10258.	2.7	5
29	Monte Carlo simulation of fluorescence correlation spectroscopy data. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 207-222.	1.0	4
30	Solvent relaxation studies applied to stimuli-responsive core-shell nanoparticles. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
31	Fluorescence Spectroscopy as a Tool for Investigating the Self-Organized Polyelectrolyte Systems. <i>Advances in Polymer Science</i> , 2010, , 187-249.	0.8	8
32	Molecular dynamics simulations of a polyelectrolyte star in poor solvent. <i>Soft Matter</i> , 2010, 6, 1872.	2.7	31
33	Self-association of copolymers with various composition profiles. <i>Collection of Czechoslovak Chemical Communications</i> , 2010, 75, 493-505.	1.0	9
34	Amphiphilic Graft Copolymers in Selective Solvents: Molecular Dynamics Simulations and Scaling Theory. <i>Macromolecules</i> , 2009, 42, 6748-6760.	4.8	67
35	Stimuli-Responsive Amphiphilic Shells of Kinetically Frozen Polymeric Micelles in Aqueous Media: Monte Carlo Simulations and Comparison to Self-Consistent Field Calculations. <i>Macromolecules</i> , 2008, 41, 3711-3719.	4.8	6
36	Computer Study of Stimuli-Responsive Polyelectrolyte Micelles in Aqueous Media. Comparison of Monte Carlo and Self-Consistent Field Approaches. <i>Macromolecular Symposia</i> , 2008, 270, 65-73.	0.7	0

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37	Self-Assembly of Heteroarm Star Copolymers Studied by Lattice Monte Carlo Simulation. Collection of Czechoslovak Chemical Communications, 2008, 73, 358-371.	1.0	1
38	Charge Distribution and Conformations of Weak Polyelectrolyte Chains in Poor Solvents. Collection of Czechoslovak Chemical Communications, 2008, 73, 439-458.	1.0	10
39	The Use of Monte Carlo Simulations for the Interpretation of Light Scattering and Fluorescence Data on Self-Assembling Polymer Systems in Solutions. Collection of Czechoslovak Chemical Communications, 2008, 73, 293-313.	1.0	0
40	Conformational Behavior of Comb-like Polyelectrolytes in Selective Solvent: A Computer Simulation Study. Journal of Physical Chemistry B, 2007, 111, 8605-8611.	2.6	27
41	SCF Study of Amphiphilic Micellar Shells Containing Polyelectrolyte and Hydrophobic Sequences. Macromolecules, 2007, 40, 7656-7664.	4.8	7
42	Self-Assembly of Heteroarm Star Copolymers – A Monte Carlo Study. Macromolecular Theory and Simulations, 2007, 16, 386-398.	1.4	18
43	Molecular Dynamics Simulation of Time-Resolved Fluorescence Anisotropy Decays from Labeled Polyelectrolyte Chains. Macromolecules, 2006, 39, 3458-3465.	4.8	14
44	Copolymer Micelles with Polyelectrolyte Shell in Aqueous Media. A Mean-Field Study. Collection of Czechoslovak Chemical Communications, 2006, 71, 756-768.	1.0	3
45	A New Simulation Algorithm with Revised Association Criteria for Studying the Association of Heteroarm Star Copolymers. Macromolecular Theory and Simulations, 2005, 14, 560-568.	1.4	9
46	Monte Carlo Study of Dilute Solutions of Heteroarm Star Copolymers in Solvents Differing in Thermodynamic Quality. Collection of Czechoslovak Chemical Communications, 2005, 70, 1848-1860.	1.0	1
47	Polyelectrolyte shells of copolymer micelles in aqueous solutions: A Monte Carlo study. Journal of Chemical Physics, 2004, 121, 2367-2375.	3.0	31
48	On the Ergodicity of Dynamic Monte Carlo Simulations of Multichain or Star Systems. Macromolecular Theory and Simulations, 2004, 13, 328-334.	1.4	4
49	Polyelectrolyte Behavior of Polystyrene-block-poly(methacrylic acid) Micelles in Aqueous Solutions at Low Ionic Strength. Macromolecules, 2004, 37, 10141-10154.	4.8	53
50	Monte Carlo Study of Heteroarm Star Copolymers in Good and Selective Solvents. Macromolecular Theory and Simulations, 2003, 12, 512-523.	1.4	25
51	Mean-Field Study of Poly(methacrylic acid) Shells in Partly Hydrophobically Modified Amphiphilic Block Copolymer Micelles in Polar Solvents. Journal of Physical Chemistry B, 2003, 107, 8241-8247.	2.6	7
52	A Monte Carlo study of shells of hydrophobically modified amphiphilic copolymer micelles in polar solvents. Journal of Chemical Physics, 2003, 118, 11258-11264.	3.0	21
53	Amphiphilic Block Copolymer Micelles with Hydrophobically Modified Shells. Molecular Simulation, 2003, 29, 655-660.	2.0	3
54	Nonradiative Excitation Energy Transfer in Hydrophobically Modified Amphiphilic Block Copolymer Micelles. Theoretical Model and Monte Carlo Simulations. Macromolecules, 2002, 35, 9497-9505.	4.8	21

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55	Experimental Study of Hydrophobically Modified Amphiphilic Block Copolymer Micelles Using Light Scattering and Nonradiative Excitation Energy Transfer., <i>Macromolecules</i> , 2002, 35, 9487-9496.	4.8	41
56	Hydrophobically Modified Amphiphilic Block Copolymer Micelles in Non-Aqueous Polar Solvents. Fluorometric, Light Scattering and Computer-Based Monte Carlo Study. <i>Collection of Czechoslovak Chemical Communications</i> , 2002, 67, 531-556.	1.0	11
57	Conformation of Chains in Cores of Block Copolymer Micelles with Solubilized Homopolymer: a Monte Carlo Study. <i>Macromolecular Theory and Simulations</i> , 2001, 10, 165-173.	1.4	6
58	Monte Carlo simulation of polymer brushes in narrow pores. <i>Journal of Chemical Physics</i> , 2001, 115, 7309-7318.	3.0	22
59	Monte Carlo study of chain conformations in the swollen middle layer of onion-skin polymeric micelles. <i>Macromolecular Theory and Simulations</i> , 2000, 9, 703-714.	1.4	8
60	Title is missing!. <i>Journal of Fluorescence</i> , 1998, 8, 207-211.	2.5	0
61	Mixed Systems of Tethered Chains in Spherical Volumes. A Model for Cores of Mixed Copolymer Micelles. <i>Macromolecules</i> , 1997, 30, 8027-8035.	4.8	20
62	Conformations of Self-Avoiding Tethered Chains and Nonradiative Energy Transfer and Migration in Dense and Constrained Systems. A Model for Cores of Polymeric Micelles. <i>Macromolecules</i> , 1997, 30, 7263-7272.	4.8	18
63	A Monte Carlo Study of Copolymer Chain Conformations in Dilute Solutions in Good and Selective Solvents. <i>Collection of Czechoslovak Chemical Communications</i> , 1995, 60, 736-750.	1.0	0
64	Time-resolved fluorescence anisotropy measurements on fluorescently tagged amphiphilic micelles. <i>Journal of Fluorescence</i> , 1994, 4, 353-356.	2.5	4
65	Conformations of Insoluble Blocks in Swollen Micellar Cores of Multimolecular Block Copolymer Micelles Studied by Monte Carlo Simulation Technique. <i>Collection of Czechoslovak Chemical Communications</i> , 1994, 59, 782-802.	1.0	8
66	A Monte Carlo Study of Insoluble Block Orientations in Swollen Cores of Multimolecular Block Copolymer Micelles. <i>Collection of Czechoslovak Chemical Communications</i> , 1994, 59, 803-819.	1.0	10
67	Tethered Chains in Concave Volumes. A Monte Carlo Study. <i>Collection of Czechoslovak Chemical Communications</i> , 1994, 59, 2166-2189.	1.0	4
68	Molecular Movements and Dynamics in Solutions Studied by Fluorescence Depolarization Measurement. <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 213-233.	1.0	5
69	A Monte Carlo Study of Flexible Polymer Chain Conformations in Restricted Volumes. I. A Model for Insoluble Blocks Conformations in Swollen Cores of Multimolecular Spherical Block Copolymer Micelles. <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 2290-2304.	1.0	8
70	Fluorescence anisotropy of reversible interacting fluorophores in solutions. A theoretical study. <i>The Journal of Physical Chemistry</i> , 1992, 96, 566-571.	2.9	3
71	Study of polymer chain dynamics in solution by time-resolved spectrofluorometry. <i>Collection of Czechoslovak Chemical Communications</i> , 1989, 54, 3011-3024.	1.0	1