Zuzana Limpouchova

List of Publications by Year
in descending order

71	976	430874 18	501196 28
papers	citations	h-index	g-index

72	72	72	727
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Amphiphilic Graft Copolymers in Selective Solvents: Molecular Dynamics Simulations and Scaling Theory. Macromolecules, 2009, 42, 6748-6760.	4.8	67
2	Dissipative Particle Dynamics Study of the pH-Dependent Behavior of Poly(2-vinylpyridine)-block-poly(ethylene oxide) Diblock Copolymer in Aqueous Buffers. Macromolecules, 2014, 47, 2503-2514.	4.8	62
3	Modeling of Ionization and Conformations of Starlike Weak Polyelectrolytes. Macromolecules, 2014, 47, 4004-4016.	4.8	58
4	Polyelectrolyte Behavior of Polystyrene-block-poly(methacrylic acid) Micelles in Aqueous Solutions at Low Ionic Strength. Macromolecules, 2004, 37, 10141-10154.	4.8	53
5	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. Macromolecules, 2014, 47, 6121-6134.	4.8	49
6	Experimental Study of Hydrophobically Modified Amphiphilic Block Copolymer Micelles Using Light Scattering and Nonradiative Excitation Energy Transfer,. Macromolecules, 2002, 35, 9487-9496.	4.8	41
7	The self-assembly of copolymers with one hydrophobic and one polyelectrolyte block in aqueous media: a dissipative particle dynamics study. Physical Chemistry Chemical Physics, 2016, 18, 16127-16136.	2.8	36
8	Polyelectrolyte shells of copolymer micelles in aqueous solutions: A Monte Carlo study. Journal of Chemical Physics, 2004, 121, 2367-2375.	3.0	31
9	Molecular dynamics simulations of a polyelectrolyte star in poor solvent. Soft Matter, 2010, 6, 1872.	2.7	31
10	Conformational Behavior of Comb-like Polyelectrolytes in Selective Solvent:Â Computer Simulation Studyâ€. Journal of Physical Chemistry B, 2007, 111, 8605-8611.	2.6	27
11	Monte Carlo Study of Heteroarm Star Copolymers in Good and Selective Solvents. Macromolecular Theory and Simulations, 2003, 12, 512-523.	1.4	25
12	Monte Carlo simulation of polymer brushes in narrow pores. Journal of Chemical Physics, 2001, 115, 7309-7318.	3.0	22
13	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
14	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
15	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. Physical Chemistry Chemical Physics, 2016, 18, 16137-16151.	2.8	21
16	Mixed Systems of Tethered Chains in Spherical Volumes. A Model for Cores of Mixed Copolymer Micelles. Macromolecules, 1997, 30, 8027-8035.	4.8	20
17	Conformations of Self-Avoiding Tethered Chains and Nonradiative Energy Transfer and Migration in Dense and Constrained Systems. A Model for Cores of Polymeric Micelles. Macromolecules, 1997, 30, 7263-7272.	4.8	18
18	Self-Assembly of Heteroarm Star Copolymers â€“ A Monte Carlo Study. Macromolecular Theory and Simulations, 2007, 16, 386-398.	1.4	18

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19	Self-assembly and co-assembly of block polyelectrolytes in aqueous solutions. Dissipative particle dynamics with explicit electrostatics. Molecular Physics, 2016, 114, 3077-3092.	1.7	18
20	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. Macromolecules, 2017, 50, 8720-8730.	4.8	18
21	DPD Modelling of the Self- and Co-Assembly of Polymers and Polyelectrolytes in Aqueous Media: Impact on Polymer Science. Polymers, 2022, 14, 404.	4.5	16
22	Molecular Dynamics Simulation of Time-Resolved Fluorescence Anisotropy Decays from Labeled Polyelectrolyte Chains. Macromolecules, 2006, 39, 3458-3465.	4.8	14
23	Computer Study of the Association Behavior of Gradient Copolymers: Analysis of Simulation Results Based on a New Algorithm for Recognition and Classification of Aggregates. Macromolecular Theory and Simulations, 2013, 22, 61-70.	1.4	13
24	Computer Study of Chromatographic Separation Process: A Monte Carlo Study of H-Shaped and Linear Homopolymers in Good Solvent. Macromolecules, 2016, 49, 1093-1102.	4.8	13
25	Dissipative particle dynamics simulations of polyelectrolyte self-assemblies. Methods with explicit electrostatics. Polymer Science - Series C, 2017, 59, 77-101.	1.7	13
26	Adsorption of amphiphilic graft copolymers in solvents selective for the grafts on a lyophobic surface: a coarse-grained simulation study. Physical Chemistry Chemical Physics, 2018, 20, 6533-6547.	2.8	12
27	Chromatographic study of the conformational behavior of graft copolymers with a broad distribution of grafting densities in dilute solutions in selective solvents for grafts. Journal of Liquid Chromatography and Related Technologies, 2016, 39, 50-58.	1.0	11
28	Hydrophobically Modified Amphiphilic Block Copolymer Micelles in Non-Aqueous Polar Solvents. Fluorometric, Light Scattering and Computer-Based Monte Carlo Study. Collection of Czechoslovak Chemical Communications, 2002, 67, 531-556.	1.0	11
29	Computer study of the solubilization of polymer chains in polyelectrolyte complex cores of polymeric nanoparticles in aqueous media. Physical Chemistry Chemical Physics, 2018, 20, 29876-29888.	2.8	10
30	Theoretical Principles of Fluorescence Spectroscopy. Springer Series on Fluorescence, 2016, , 91-149.	0.8	10
31	A Monte Carlo Study of Insoluble Block Orientations in Swollen Cores of Multimolecular Block Copolymer Micelles. Collection of Czechoslovak Chemical Communications, 1994, 59, 803-819.	1.0	10
32	Charge Distribution and Conformations of Weak Polyelectrolyte Chains in Poor Solvents. Collection of Czechoslovak Chemical Communications, 2008, 73, 439-458.	1.0	10
33	A New Simulation Algorithm with Revised â€œAssociation Criteriaâ€•for Studying the Association of Heteroarm Star Copolymers. Macromolecular Theory and Simulations, 2005, 14, 560-568.	1.4	9
34	Self-association of copolymers with various composition profiles. Collection of Czechoslovak Chemical Communications, 2010, 75, 493-505.	1.0	9
35	Monte Carlo study of chain conformations in the swollen middle layer of onion-skin polymeric micelles. Macromolecular Theory and Simulations, 2000, 9, 703-714.	1.4	8
36	Fluorescence Spectroscopy as a Tool for Investigating the Self-Organized Polyelectrolyte Systems. Advances in Polymer Science, 2010, , 187-249.	0.8	8

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37	Double-exponential decay of orientational correlations in semiflexible polyelectrolytes. European Physical Journal E, 2012, 35, 53.	1.6	8
38	Onion Micelles with an Interpolyelectrolyte Complex Middle Layer: Experimental Motivation and Computer Study. Macromolecules, 2020, 53, 6780-6795.	4.8	8
39	Partitioning of polymers between bulk and porous media: Monte Carlo study of the effect of pore size distribution. Journal of Colloid and Interface Science, 2020, 567, 103-112.	9.4	8
40	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. Collection of Czechoslovak Chemical Communications, 1993, 58, 2290-2304.	1.0	8
41	Conformations of Insoluble Blocks in Swollen Micellar Cores of Multimolecular Block Copolymer Micelles Studied by Monte Carlo Simulation Technique. Collection of Czechoslovak Chemical Communications, 1994, 59, 782-802.	1.0	8
42	Mean-Field Study of Poly(methacrylic acid) Shells in Partly Hydrophobically Modified Amphiphilic Block Copolymer Micelles in Polar Solventsâ€. Journal of Physical Chemistry B, 2003, 107, 8241-8247.	2.6	7
43	SCF Study of Amphiphilic Micellar Shells Containing Polyelectrolyte and Hydrophobic Sequences. Macromolecules, 2007, 40, 7656-7664.	4.8	7
44	Computer study of chromatographic separation of mixtures of H-shaped and linear polymers in good and Î¸-solvents. Polymer, 2016, 104, 10-21.	3.8	7
45	Conformation of Chains in Cores of Block Copolymer Micelles with Solubilized Homopolymer: a Monte Carlo Study. Macromolecular Theory and Simulations, 2001, 10, 165-173.	1.4	6
46	Stimuli-Responsive Amphiphilic Shells of Kinetically Frozen Polymeric Micelles in Aqueous Media: Monte Carlo Simulations and Comparison to Self-Consistent Field Calculations. Macromolecules, 2008, 41, 3711-3719.	4.8	6
47	Separation of polymers differing in their chain architecture by interaction chromatography: Phase equilibria and conformational behavior of polymers in strongly adsorbing porous media. Polymer, 2019, 175, 99-106.	3.8	6
48	Pore size effect on the separation of polymers by interaction chromatography. A Monte Carlo study. Analytica Chimica Acta, 2019, 1064, 126-137.	5.4	6
49	Molecular Movements and Dynamics in Solutions Studied by Fluorescence Depolarization Measurement. Collection of Czechoslovak Chemical Communications, 1993, 58, 213-233.	1.0	5
50	Depletion profiles for dilute solutions of linear chains, stars and H-branched molecules by self-consistent field calculations and Monte Carlo simulations. Soft Matter, 2011, 7, 10258.	2.7	5
51	Coassembly of Poly(N-isopropylacrylamide) with Dodecyl and Carboxyl Terminal Groups with Cationic Surfactant: Critical Comparison of Experimental and Simulation Data. Macromolecules, 2018, 51, 7295-7308.	4.8	5
52	Time-resolved fluorescence anisotropy measurements on fluorescently tagged amphiphilic micelles. Journal of Fluorescence, 1994, 4, 353-356.	2.5	4
53	On the Ergodicity of Dynamic Monte Carlo Simulations of Multichain or Star Systems. Macromolecular Theory and Simulations, 2004, 13, 328-334.	1.4	4
54	Monte Carlo simulation of fluorescence correlation spectroscopy data. Collection of Czechoslovak Chemical Communications, 2011, 76, 207-222.	1.0	4

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55	Stabilization of coated inorganic nanoparticles by amphiphilic copolymers in aqueous media. Dissipative particle dynamics study. Colloid and Polymer Science, 2017, 295, 1429-1441.	2.1	4
56	Solubilization of Charged Porphyrins in Interpolyelectrolyte Complexes: A Computer Study. Polymers, 2021, 13, 502.	4.5	4
57	Tethered Chains in Concave Volumes. A Monte Carlo Study. Collection of Czechoslovak Chemical Communications, 1994, 59, 2166-2189.	1.0	4
58	Fluorescence anisotropy of reversible interacting fluorophores in solutions. A theoretical study. The Journal of Physical Chemistry, 1992, 96, 566-571.	2.9	3
59	Amphiphilic Block Copolymer Micelles with Hydrophobically Modified Shells. Molecular Simulation, 2003, 29, 655-660.	2.0	3
60	Phase Equilibria and Conformational Behavior of Dendrimers in Porous Media: Towards Chromatographic Analysis of Dendrimers. Journal of Colloid and Interface Science, 2021, 608, 830-839.	9.4	3
61	Copolymer Micelles with Polyelectrolyte Shell in Aqueous Media. A Mean-Field Study. Collection of Czechoslovak Chemical Communications, 2006, 71, 756-768.	1.0	3
62	Self-Assembly of Heteroarm Star Copolymers Studied by Lattice Monte Carlo Simulation. Collection of Czechoslovak Chemical Communications, 2008, 73, 358-371.	1.0	1
63	Conformational behavior of polymer chains of different architectures in strongly endothermic solvent mixtures: specific solvation effects. Colloid and Polymer Science, 2017, 295, 1391-1403.	2.1	1
64	Study of polymer chain dynamics in solution by time-resolved spectrofluorometry. Collection of Czechoslovak Chemical Communications, 1989, 54, 3011-3024.	1.0	1
65	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
66	Title is missing!. Journal of Fluorescence, 1998, 8, 207-211.	2.5	0
67	Computer Study of Stimuliâ€Responsive Polyelectrolyte Micelles in Aqueous Media. Comparison of Monte Carlo and Selfâ€Consistent Field Approaches. Macromolecular Symposia, 2008, 270, 65-73.	0.7	0
68	Solvent relaxation studies applied to stimuli-responsive core-shell nanoparticles. Proceedings of SPIE, 2010, , .	0.8	0
69	Effect of preferential solvation of polymer chains on vapor-pressure osmometry results: Computer simulation study. International Journal of Polymer Analysis and Characterization, 2018, 23, 244-251.	1.9	0
70	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
71	A Monte Carlo Study of Copolymer Chain Conformations in Dilute Solutions in Good and Selective Solvents. Collection of Czechoslovak Chemical Communications, 1995, 60, 736-750.	1.0	0