

Miroslav Stepanek

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Hybrid Polymeric Micelles with Hydrophobic Cores and Mixed Polyelectrolyte/Nonelectrolyte Shells in Aqueous Media. 1. Preparation and Basic Characterization. <i>Langmuir</i> , 2001, 17, 4240-4244.	1.6	88
2	Polystyrene/Poly(2-vinylpyridine) Heteroarm Star Copolymer Micelles in Aqueous Media and Onion Type Micelles Stabilized by Diblock Copolymers. <i>Langmuir</i> , 2000, 16, 6868-6876.	1.6	82
3	Multicompartment Nanoparticles Formed by a Heparin-Mimicking Block Terpolymer in Aqueous Solutions. <i>Macromolecules</i> , 2009, 42, 5605-5613.	2.2	58
4	Thermodynamic and Kinetic Aspects of Coassembly of PEO-b-PMAA Block Copolymer and DPCI Surfactants into Ordered Nanoparticles in Aqueous Solutions Studied by ITC, NMR, and Time-Resolved SAXS Techniques. <i>Macromolecules</i> , 2013, 46, 2172-2181.	2.2	48
5	Coassembly of Poly(ethylene oxide)-block-poly(methacrylic acid) and N-Dodecylpyridinium Chloride in Aqueous Solutions Leading to Ordered Micellar Assemblies within Copolymer Aggregates. <i>Macromolecules</i> , 2012, 45, 6471-6480.	2.2	46
6	Solvent Relaxation Study of pH-Dependent Hydration of Poly(oxyethylene) Shells in Polystyrene-block-poly(2-vinylpyridine)-block-poly(oxyethylene) Micelles in Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10803-10812.	1.1	45
7	Preparation and Characterization of Self-Assembled Nanoparticles Formed by Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj Solutions. <i>Langmuir</i> , 2007, 23, 3395-3400.	1.6	45
8	Hybrid Polymeric Micelles with Hydrophobic Cores and Mixed Polyelectrolyte/Nonelectrolyte Shells in Aqueous Media. 2. Studies of the Shell Behavior. <i>Langmuir</i> , 2001, 17, 4245-4250.	1.6	43
9	Time-Dependent Behavior of Block Polyelectrolyte Micelles in Aqueous Media Studied by Potentiometric Titrations, QELS and Fluorometry. <i>Langmuir</i> , 2000, 16, 2502-2507.	1.6	42
10	Fluorescence Study of the Solvation of Fluorescent Probes Prodan and Laurdan in Poly(μ -caprolactone)- <i>block</i> -poly(ethylene oxide) Vesicles in Aqueous Solutions with Tetrahydrofuran. <i>Langmuir</i> , 2008, 24, 288-295.	1.6	36
11	New insights on the solution behavior and self-assembly of polystyrene/poly(2-vinylpyridine) hairy heteroarm star copolymers with highly asymmetric arms in polar organic and aqueous media. <i>Polymer</i> , 2005, 46, 10493-10505.	1.8	35
12	Polyelectrolyte-Surfactant Complexes Formed by Poly[3,5-bis(trimethylammoniummethyl)4-hydroxystyrene iodide]- <i>block</i> -poly(ethylene oxide) and Sodium Dodecyl Sulfate in Aqueous Solutions. <i>Langmuir</i> , 2011, 27, 5275-5281.	1.6	35
13	Solubilization and release of hydrophobic compounds from block copolymer micelles. I. Partitioning of pyrene between polyelectrolyte micelles and the aqueous phase. <i>Acta Polymerica</i> , 1998, 49, 96-102.	1.4	31
14	Light Scattering, Atomic Force Microscopy and Fluorescence Correlation Spectroscopy Studies of Polystyrene-block-poly(2-vinylpyridine)-block-poly(ethylene oxide) Micelles. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 2120-2138.	1.0	30
15	Reversible Aggregation of Polystyrene-block-poly(2-vinylpyridine)-block-poly(ethylene oxide) Block Copolymer Micelles in Acidic Aqueous Solutions. <i>Langmuir</i> , 2005, 21, 10783-10790.	1.6	29
16	Poly(N-isopropyl acrylamide)-block-poly(n-butyl acrylate) thermoresponsive amphiphilic copolymers: Synthesis, characterization and self-assembly behavior in aqueous solutions. <i>European Polymer Journal</i> , 2014, 61, 124-132.	2.6	29
17	Glucose-Responsive Hybrid Nanoassemblies in Aqueous Solutions: Ordered Phenylboronic Acid within Intermixed Poly(4-hydroxystyrene)- <i>block</i> -poly(ethylene oxide) Block Copolymer. <i>Biomacromolecules</i> , 2015, 16, 3731-3739.	2.6	29
18	Fluorometric and Ultraviolet-Visible Absorption Study of Poly(methacrylic acid) Shells of High-Molar-Mass Block Copolymer Micelles. <i>Langmuir</i> , 1999, 15, 4185-4193.	1.6	28

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19	The C-Terminal Segment of Yeast BMH Proteins Exhibits Different Structure Compared to Other 14-3-3 Protein Isoforms. <i>Biochemistry</i> , 2010, 49, 3853-3861.	1.2	28
20	Fluorometric Studies of the Polyelectrolyte Shell of Block Copolymer Micelles in Aqueous Media. <i>Langmuir</i> , 1999, 15, 8800-8806.	1.6	27
21	pH-Dependent Self-Assembly of Polystyrene- <i>block</i> -Poly((sulfamate-carboxylate)isoprene) Copolymer in Aqueous Media. <i>Langmuir</i> , 2008, 24, 12017-12025.	1.6	26
22	Self-assemblies formed by four-arm star copolymers with amphiphilic diblock arms in aqueous solutions. <i>Polymer</i> , 2009, 50, 3638-3644.	1.8	26
23	Cellulose-based graft copolymers with controlled architecture prepared in a homogeneous phase. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4353-4367.	2.5	25
24	Wormlike core-shell nanoparticles formed by co-assembly of double hydrophilic block polyelectrolyte with oppositely charged fluorosurfactant. <i>Soft Matter</i> , 2012, 8, 9412.	1.2	25
25	Role of pK _A in Charge Regulation and Conformation of Various Peptide Sequences. <i>Polymers</i> , 2021, 13, 214.	2.0	24
26	Fluorescence Lifetime Correlation Spectroscopy Reveals Compaction Mechanism of 10 and 49 kbp DNA and Differences between Polycation and Cationic Surfactant. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16823-16829.	1.2	23
27	Association of Poly(4-hydroxystyrene)- <i>block</i> -Poly(Ethylene oxide) in Aqueous Solutions: Block Copolymer Nanoparticles with Intermixed Blocks. <i>Langmuir</i> , 2012, 28, 307-313.	1.6	23
28	Nanoparticles with Embedded Porphyrin Photosensitizers for Photooxidation Reactions and Continuous Oxygen Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36229-36238.	4.0	22
29	Local pH and Effective p <i>K</i> of a Polyelectrolyte Chain: Two Names for One Quantity?. <i>ACS Macro Letters</i> , 2018, 7, 1243-1247.	2.3	22
30	Solubilization and release of hydrophobic compounds from block copolymer micelles. II. Release of pyrene from polyelectrolyte micelles under equilibrium conditions. <i>Acta Polymerica</i> , 1998, 49, 103-107.	1.4	19
31	Self-Assembly of Heteroarm Star Copolymers - A Monte Carlo Study. <i>Macromolecular Theory and Simulations</i> , 2007, 16, 386-398.	0.6	18
32	Quantitative prediction of charge regulation in oligopeptides. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 122-131.	1.7	18
33	Interpolymer Complexes Based on the Core/Shell Micelles. Interaction of Polystyrene- <i>block</i> -poly(methacrylic acid) Micelles with Linear Poly(2-vinylpyridine) in 1,4-Dioxane Water Mixtures and in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8394-8401.	1.2	16
34	Morphologically Tunable Coassembly of Double Hydrophilic Block Polyelectrolyte with Oppositely Charged Fluorosurfactant. <i>Macromolecules</i> , 2014, 47, 7081-7090.	2.2	16
35	Thermoresponsive behavior of poly(N-isopropylacrylamide)s with dodecyl and carboxyl terminal groups in aqueous solution: pH-dependent cloud point temperature. <i>Colloid and Polymer Science</i> , 2017, 295, 1343-1349.	1.0	16
36	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.	2.0	16

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37	Polyelectrolyte- <i>Surfactant</i> Complexes of Poly[3,5-bis(dimethylaminomethyl)-4-hydroxystyrene]-block-poly(ethylene oxide) and Sodium Dodecyl Sulfate: Anomalous Self-Assembly Behavior. <i>Langmuir</i> , 2013, 29, 5443-5449.	1.6	15
38	Complexation of DNA with QPDMAEMA- <i>b</i> -PLMA- <i>b</i> -POEGMA Cationic Triblock Terpolymer Micelles. <i>Macromolecules</i> , 2020, 53, 5747-5755.	2.2	14
39	Structural Modulation of Phosducin by Phosphorylation and 14-3-3 Protein Binding. <i>Biophysical Journal</i> , 2012, 103, 1960-1969.	0.2	13
40	Stabilization of aqueous dispersions of poly(methacrylic acid)-coated iron oxide nanoparticles by double hydrophilic block polyelectrolyte poly(ethylene oxide)-block-poly(N-methyl-2-vinylpyridinium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.2	10
41	Physicochemical Evaluation of Insulin Complexes with QPDMAEMA- <i>b</i> -PLMA- <i>b</i> -POEGMA Cationic Amphiphilic Triblock Terpolymer Micelles. <i>Polymers</i> , 2020, 12, 309.	2.0	13
42	Self-Assembly of Poly(4-methylstyrene)- <i>g</i> -poly(methacrylic acid) Graft Copolymer in Selective Solvents for Grafts: Scattering and Molecular Dynamics Simulation Study. <i>Langmuir</i> , 2010, 26, 9289-9296.	1.6	12
43	Micellization of Zonyl FSN-100 fluorosurfactant in aqueous solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 209-215.	2.3	12
44	Self- and co-assembly of amphiphilic gradient polyelectrolyte in aqueous solution: Interaction with oppositely charged ionic surfactant. <i>European Polymer Journal</i> , 2015, 73, 212-221.	2.6	12
45	Polystyrene and Poly(ethylene glycol)- <i>b</i> -Poly(μ -caprolactone) Nanoparticles with Porphyrins: Structure, Size, and Photooxidation Properties. <i>Langmuir</i> , 2020, 36, 302-310.	1.6	12
46	On Mechanism of Intermediate-Sized Circular DNA Compaction Mediated by Spermine: Contribution of Fluorescence Lifetime Correlation Spectroscopy. <i>Journal of Fluorescence</i> , 2008, 18, 679-684.	1.3	11
47	Aggregation of superparamagnetic iron oxide nanoparticles in dilute aqueous dispersions: Effect of coating by double-hydrophilic block polyelectrolyte. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 483, 1-7.	2.3	11
48	Formation of linear and crosslinked polyurethane nanoparticles that self-assemble differently in acetone and in water. <i>Progress in Organic Coatings</i> , 2017, 106, 119-127.	1.9	11
49	Combination of phosphonium and ammonium pendant groups in cationic conjugated polyelectrolytes based on regioregular poly(3-hexylthiophene) polymer chains. <i>European Polymer Journal</i> , 2018, 100, 200-208.	2.6	11
50	Interaction of fluorescent surfactant 5-(N-octadecanoyl)aminofluorescein with polystyrene-block-poly(methacrylic acid) micelles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 147, 79-87.	2.3	10
51	Atomic Force Microscopy and Light Scattering Study of Onion-Type Micelles Formed by Polystyrene-block-poly(2-vinylpyridine) and Poly(2-vinylpyridine)-block-poly(ethylene oxide) Copolymers in Aqueous Solutions. <i>Collection of Czechoslovak Chemical Communications</i> , 2006, 71, 723-738.	1.0	10
52	Influence of Corona Structure on Binding of an Ionic Surfactant in Oppositely Charged Amphiphilic Polyelectrolyte Micelles. <i>Langmuir</i> , 2016, 32, 4059-4065.	1.6	10
53	Dynamics of Chain Exchange Between Self-Assembled Diblock Copolymer Micelles of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 <i>Czechoslovak Chemical Communications</i> , 2005, 70, 1811-1828.	1.0	9
54	Composite particles formed by complexation of poly(methacrylic acid) <i>stabilized</i> magnetic fluid with chitosan: Magnetic material for bioapplications. <i>Materials Science and Engineering C</i> , 2016, 67, 486-492.	3.8	9

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55	Fluorescence Spectroscopy as a Tool for Investigating the Self-Organized Polyelectrolyte Systems. <i>Advances in Polymer Science</i> , 2010, , 187-249.	0.4	8
56	Imaging of block copolymer vesicles in solvated state by wet scanning transmission electron microscopy. <i>European Polymer Journal</i> , 2011, 47, 1273-1278.	2.6	8
57	Onion Micelles with an Interpolyelectrolyte Complex Middle Layer: Experimental Motivation and Computer Study. <i>Macromolecules</i> , 2020, 53, 6780-6795.	2.2	8
58	PMAA-stabilized ferrofluid/chitosan/yeast composite for bioapplications. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 29-33.	1.0	7
59	Coassembly of Gemini Surfactants with Double Hydrophilic Block Polyelectrolytes Leading to Complex Nanoassemblies. <i>Macromolecules</i> , 2017, 50, 8745-8754.	2.2	6
60	Formation of core/corona nanoparticles with interpolyelectrolyte complex cores in aqueous solution: insight into chain dynamics in the complex from fluorescence quenching. <i>Soft Matter</i> , 2018, 14, 7578-7585.	1.2	6
61	Lyotropic and Thermotropic Phase Transitions in Films of Ionene ⁺ Alkyl Sulfate Complexes. <i>Langmuir</i> , 2005, 21, 6797-6804.	1.6	5
62	Experimental Study of the Electrophoretic Mobility and Effective Electric Charge of Polystyrene-Block-Poly(Methacrylic Acid) Micelles in Aqueous Media. <i>International Journal of Polymer Analysis and Characterization</i> , 2007, 12, 23-33.	0.9	5
63	pH-Dependent Behavior of Hydrophobically Modified Polyelectrolyte Shells of Polymeric Nanoparticles. <i>Macromolecular Symposia</i> , 2008, 273, 95-102.	0.4	5
64	Multilayer Polymeric Nanoparticles Based on Specific Interactions in Solution: Polystyrene-block-poly(methacrylic acid) Micelles with Linear Poly(2-vinylpyridine) in Aqueous Buffers. <i>Materials and Manufacturing Processes</i> , 2008, 23, 557-560.	2.7	5
65	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.	2.2	5
66	Modification of the Co-assembly Behavior of Double-Hydrophilic Block Polyelectrolytes by Hydrophobic Terminal Groups: Ordered Nanostructures with Interpolyelectrolyte Complex Domains. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1956-1963.	2.0	5
67	Reversible multilayered vesicle-like structures with fluid hydrophobic and interpolyelectrolyte layers. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 313-325.	5.0	5
68	Fluorescence study of the core/shell interface in polyelectrolyte micelles. Binding of fluorescent surfactants in the interfacial region. <i>Journal of Fluorescence</i> , 1998, 8, 21-25.	1.3	4
69	Monte Carlo simulation of fluorescence correlation spectroscopy data. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 207-222.	1.0	4
70	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.	1.0	4
71	Evolution of Structure in a Comb Copolymer-Surfactant Coacervate. <i>Macromolecules</i> , 2019, 52, 6303-6310.	2.2	4
72	Polynorbornene-Based Polyelectrolytes with Covalently Attached Metallacarboranes: Synthesis, Characterization, and Lithium-Ion Mobility. <i>Macromolecules</i> , 2021, 54, 6867-6877.	2.2	4

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73	Structure of polymeric nanoparticles in surfactant-stabilized aqueous dispersions of high-molar-mass hydrophobic graft copolymers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 456, 10-17.	2.3	3
74	Anionically Functionalized Glycogen Encapsulates Melittin by Multivalent Interaction. <i>Biomacromolecules</i> , 2022, 23, 3371-3382.	2.6	3
75	Glycation of Human Serum Albumin by DL-Glyceraldehyde: A Fluorescence Quenching Study. <i>Collection of Czechoslovak Chemical Communications</i> , 1997, 62, 1815-1820.	1.0	1
76	Steady-state and time-resolved luminescence of Ru(II) polypyridine complexes attached to Ag nanoparticles: Effect of chemisorption in comparison with electrostatic bonding. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 657-663.	2.0	1
77	Fluorescence Spectroscopy Studies of Amphiphilic Block Copolymer Micelles in Aqueous Solutions. <i>Springer Series on Fluorescence</i> , 2016, , 203-215.	0.8	1
78	Insight into the Structure of a Comb Copolymerâ€™Surfactant Coacervate from Dynamic Measurements by DOSY NMR and Neutron Spin Echo Spectroscopy. <i>Macromolecules</i> , 0, , .	2.2	1
79	Solvent relaxation studies applied to stimuli-responsive core-shell nanoparticles. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0