

# Miroslav Stepanek

## List of Publications by Year in descending order

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79  
papers

1,485  
citations

279487

23  
h-index

377514

34  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1548  
citing authors

| #  | 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.  | 2.0 | 16        |
| 2  | Anionically Functionalized Glycogen Encapsulates Melittin by Multivalent Interaction. <i>Biomacromolecules</i> , 2022, 23, 3371-3382.  | 2.6 | 3         |
| 3  | Quantitative prediction of charge regulation in oligopeptides. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 122-131.   | 1.7 | 18        |
| 4  | 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         |
| 5  | Polynorbornene-Based Polyelectrolytes with Covalently Attached Metallacarboranes: Synthesis, Characterization, and Lithium-Ion Mobility. <i>Macromolecules</i> , 2021, 54, 6867-6877.  | 2.2 | 4         |
| 6  | 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         |
| 7  | Role of pKa in Charge Regulation and Conformation of Various Peptide Sequences. <i>Polymers</i> , 2021, 13, 214.   | 2.0 | 24        |
| 8  | Polystyrene and Poly(ethylene glycol)-b-Poly( $\epsilon$ -caprolactone) Nanoparticles with Porphyrins: Structure, Size, and Photooxidation Properties. <i>Langmuir</i> , 2020, 36, 302-310.  | 1.6 | 12        |
| 9  | Onion Micelles with an Interpolyelectrolyte Complex Middle Layer: Experimental Motivation and Computer Study. <i>Macromolecules</i> , 2020, 53, 6780-6795.   | 2.2 | 8         |
| 10 | 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        |
| 11 | 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        |
| 12 | Evolution of Structure in a Comb Copolymer-Surfactant Coacervate. <i>Macromolecules</i> , 2019, 52, 6303-6310.   | 2.2 | 4         |
| 13 | 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        |
| 14 | Local pH and Effective $pK_a$ of a Polyelectrolyte Chain: Two Names for One Quantity?. <i>ACS Macro Letters</i> , 2018, 7, 1243-1247.  | 2.3 | 22        |
| 15 | 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         |
| 16 | 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         |
| 17 | Stabilization of aqueous dispersions of poly(methacrylic acid)-coated iron oxide nanoparticles by double hydrophilic block polyelectrolyte poly(ethylene oxide)-block-poly( <i>N</i> -methyl-2-vinylpyridinium) Tj ETQq1 1 0.784314 rg 63 /Overbo  | 1.0 | 16        |
| 18 | Thermoresponsive behavior of poly( <i>N</i> -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        |

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|----|---|-----|-----------|
| 19 | 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         |
| 20 | 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        |
| 21 | Coassembly of Gemini Surfactants with Double Hydrophilic Block Polyelectrolytes Leading to Complex Nanoassemblies. <i>Macromolecules</i> , 2017, 50, 8745-8754.   | 2.2 | 6         |
| 22 | Nanoparticles with Embedded Porphyrin Photosensitizers for Photooxidation Reactions and Continuous Oxygen Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36229-36238.  | 4.0 | 22        |
| 23 | PMAA-stabilized ferrofluid/chitosan/yeast composite for bioapplications. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 29-33.   | 1.0 | 7         |
| 24 | 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        |
| 25 | Composite particles formed by complexation of poly(methacrylic acid) " stabilized magnetic fluid with chitosan: Magnetic material for bioapplications. <i>Materials Science and Engineering C</i> , 2016, 67, 486-492.  | 3.8 | 9         |
| 26 | Fluorescence Spectroscopy Studies of Amphiphilic Block Copolymer Micelles in Aqueous Solutions. <i>Springer Series on Fluorescence</i> , 2016, , 203-215.   | 0.8 | 1         |
| 27 | 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        |
| 28 | 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        |
| 29 | 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         |
| 30 | 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        |
| 31 | Poly(N-isopropyl acrylamide)- <i>block</i> -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        |
| 32 | Morphologically Tunable Coassembly of Double Hydrophilic Block Polyelectrolyte with Oppositely Charged Fluorosurfactant. <i>Macromolecules</i> , 2014, 47, 7081-7090.   | 2.2 | 16        |
| 33 | 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        |
| 34 | 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         |
| 35 | Polyelectrolyte "Surfactant Complexes of Poly[3,5-bis(dimethylaminomethyl)-4-hydroxystyrene]- <i>block</i> -poly(ethylene oxide) and Sodium Dodecyl Sulfate: Anomalous Self-Assembly Behavior. <i>Langmuir</i> , 2013, 29, 5443-5449.   | 1.6 | 15        |
| 36 | Thermodynamic and Kinetic Aspects of Coassembly of PEO "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        |

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|----|---|-----|-----------|
| 37 | Structural Modulation of Phosducin by Phosphorylation and 14-3-3 Protein Binding. <i>Biophysical Journal</i> , 2012, 103, 1960-1969.  | 0.2 | 13        |
| 38 | 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        |
| 39 | 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        |
| 40 | Coassembly of Poly(ethylene oxide)- <i>block</i> -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        |
| 41 | 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        |
| 42 | 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        |
| 43 | 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         |
| 44 | Monte Carlo simulation of fluorescence correlation spectroscopy data. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 207-222.  | 1.0 | 4         |
| 45 | Solvent relaxation studies applied to stimuli-responsive core-shell nanoparticles. <i>Proceedings of SPIE</i> , 2010, , .   | 0.8 | 0         |
| 46 | Fluorescence Spectroscopy as a Tool for Investigating the Self-Organized Polyelectrolyte Systems. <i>Advances in Polymer Science</i> , 2010, , 187-249.   | 0.4 | 8         |
| 47 | 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        |
| 48 | 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        |
| 49 | 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        |
| 50 | Multicompartment Nanoparticles Formed by a Heparin-Mimicking Block Terpolymer in Aqueous Solutions. <i>Macromolecules</i> , 2009, 42, 5605-5613.  | 2.2 | 58        |
| 51 | 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        |
| 52 | 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        |
| 53 | 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        |
| 54 | Fluorescence Study of the Solvation of Fluorescent Probes Prodan and Laurdan in Poly( $\epsilon$ -caprolactone)- <i>block</i> -poly(ethylene oxide) Vesicles in Aqueous Solutions with Tetrahydrofurane. <i>Langmuir</i> , 2008, 24, 288-295.   | 1.6 | 36        |

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|----|--|-----|-----------|
| 55 | pH-Dependent Behavior of Hydrophobically Modified Polyelectrolyte Shells of Polymeric Nanoparticles. <i>Macromolecular Symposia</i> , 2008, 273, 95-102.   | 0.4 | 5         |
| 56 | 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         |
| 57 | Preparation and Characterization of Self-Assembled Nanoparticles Formed by Poly(ethylene Terephthalate) in Aqueous Solutions. <i>Langmuir</i> , 2007, 23, 3395-3400.   | 1.6 | 45        |
| 58 | Interpolymer Complexes Based on the Core/Shell Micelles. Interaction of Polystyrene-block-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        |
| 59 | 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         |
| 60 | Self-Assembly of Heteroarm Star Copolymers – A Monte Carlo Study. <i>Macromolecular Theory and Simulations</i> , 2007, 16, 386-398.  | 0.6 | 18        |
| 61 | 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        |
| 62 | Dynamics of Chain Exchange Between Self-Assembled Diblock Copolymer Micelles of Poly(ethylene Terephthalate) in Aqueous Solutions. <i>Czechoslovak Chemical Communications</i> , 2005, 70, 1811-1828.  | 1.0 | 9         |
| 63 | New insights on the solution behavior and self-assembly of polystyrene/poly(2-vinylpyridine) hairy star copolymers with highly asymmetric arms in polar organic and aqueous media. <i>Polymer</i> , 2005, 46, 10493-10505.   | 1.8 | 35        |
| 64 | 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        |
| 65 | 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        |
| 66 | Lyotropic and Thermotropic Phase Transitions in Films of Ionene-Alkyl Sulfate Complexes. <i>Langmuir</i> , 2005, 21, 6797-6804.  | 1.6 | 5         |
| 67 | 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        |
| 68 | 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        |
| 69 | 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        |
| 70 | 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        |
| 71 | 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        |
| 72 | 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        |

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|----|--|-----|-----------|
| 73 | Fluorometric Studies of the Polyelectrolyte Shell of Block Copolymer Micelles in Aqueous Media. <i>Langmuir</i> , 1999, 15, 8800-8806.   | 1.6 | 27        |
| 74 | 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        |
| 75 | 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        |
| 76 | 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        |
| 77 | 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         |
| 78 | 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         |
| 79 | Insight into the Structure of a Comb Copolymer-Surfactant Coacervate from Dynamic Measurements by DOSY NMR and Neutron Spin Echo Spectroscopy. <i>Macromolecules</i> , 0, , .                                    | 2.2 | 1         |