

Dmitry V Pergushov

List of Publications by Year in descending order

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57
papers

1,912
citations

257101

24
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43
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58
all docs

58
docs citations

58
times ranked

1883
citing authors

#	ARTICLE	IF	CITATIONS
1	Micellar interpolyelectrolyte complexes. <i>Chemical Society Reviews</i> , 2012, 41, 6888.	18.7	221
2	Synthesis of Poly(n-butyl acrylate)-block-poly(acrylic acid) Diblock Copolymers by ATRP and Their Micellization in Water. <i>Macromolecules</i> , 2007, 40, 4338-4350.	2.2	187
3	Dual-Stimuli-Sensitive Microgels as a Tool for Stimulated Sponglike Adsorption of Biomaterials for Biosensor Applications. <i>Biomacromolecules</i> , 2014, 15, 3735-3745.	2.6	110
4	Interpolyelectrolyte Complexes of Dynamic Multicompartment Micelles. <i>ACS Nano</i> , 2009, 3, 2095-2102.	7.3	99
5	Novel Water-Soluble Micellar Interpolyelectrolyte Complexes. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8093-8096.	1.2	87
6	Micelles of polyisobutylene-block-poly(methacrylic acid) diblock copolymers and their water-soluble interpolyelectrolyte complexes formed with quaternized poly(4-vinylpyridine). <i>Polymer</i> , 2004, 45, 367-378.	1.8	80
7	Polyisobutylene-block-poly(methacrylic acid) Diblock Copolymers: Self-Assembly in Aqueous Media. <i>Langmuir</i> , 2007, 23, 12864-12874.	1.6	69
8	Water-Soluble Interpolyelectrolyte Complexes of Polyisobutylene-block-Poly(methacrylic acid) Micelles: Formation and Properties. <i>Langmuir</i> , 2008, 24, 1769-1777.	1.6	67
9	Easy-Preparable Butyrylcholinesterase/Microgel Construct for Facilitated Organophosphate Biosensing. <i>Analytical Chemistry</i> , 2017, 89, 6091-6098.	3.2	51
10	Spontaneous Assembly of Miktoarm Stars into Vesicular Interpolyelectrolyte Complexes. <i>Macromolecular Rapid Communications</i> , 2013, 34, 855-860.	2.0	48
11	Water-Soluble Complexes of Star-Shaped Poly(acrylic acid) with Quaternized Poly(4-vinylpyridine). <i>Langmuir</i> , 2008, 24, 6414-6419.	1.6	44
12	Advanced Functional Structures Based on Interpolyelectrolyte Complexes. <i>Advances in Polymer Science</i> , 2013, , 173-225.	0.4	40
13	Engineering Systems with Spatially Separated Enzymes via Dual-Stimuli-Sensitive Properties of Microgels. <i>Langmuir</i> , 2015, 31, 13029-13039.	1.6	39
14	Interpolyelectrolyte Complexes Based on Polyionic Species of Branched Topology. <i>Advances in Polymer Science</i> , 2010, , 131-161.	0.4	38
15	Quaternized microgels as soft templates for polyelectrolyte layer-by-layer assemblies. <i>Polymer</i> , 2014, 55, 1991-1999.	1.8	36
16	Surface Functionalization by Stimuli-Sensitive Microgels for Effective Enzyme Uptake and Rational Design of Biosensor Setups. <i>Polymers</i> , 2018, 10, 791.	2.0	36
17	Long-term stable poly(ionic liquid)/MWCNTs inks enable enhanced surface modification for electrooxidative detection and quantification of dsDNA. <i>Polymer</i> , 2019, 168, 95-103.	1.8	32
18	Sequential pH-Dependent Adsorption of Ionic Amphiphilic Diblock Copolymer Micelles and Choline Oxidase Onto Conductive Substrates: Toward the Design of Biosensors. <i>Macromolecular Bioscience</i> , 2014, 14, 1039-1051.	2.1	30

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19	The Influence of the Chain Length of Polycations on their Complexation with Anionic Liposomes. <i>ChemPhysChem</i> , 2015, 16, 2849-2853.	1.0	30
20	Co-assemblies of micelle-forming diblock copolymers and enzymes on graphite substrate for an improved design of biosensor systems. <i>Soft Matter</i> , 2013, 9, 2858.	1.2	29
21	Polyelectrolytes with Tunable Charge Based on Polydehydroalanine: Synthesis and Solution Properties. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2202-2212.	1.1	29
22	All-electrochemical nanocomposite two-electrode setup for quantification of drugs and study of their electrocatalytical conversion by cytochromes P450. <i>Electrochimica Acta</i> , 2020, 336, 135579.	2.6	29
23	Facilitated biosensing via direct electron transfer of myoglobin integrated into diblock copolymer/multi-walled carbon nanotube nanocomposites. <i>Journal of Materials Chemistry B</i> , 2015, 3, 5467-5477.	2.9	27
24	Nano-patterned structures in cylindrical polyelectrolyte brushes assembled with oppositely charged polyions. <i>Soft Matter</i> , 2009, 5, 4938.	1.2	25
25	Interpolyelectrolyte complexes based on hyaluronic acid-block-poly(ethylene glycol) and poly-L-lysine. <i>Soft Matter</i> , 2013, 9, 4297.	1.2	24
26	DNA Melting Temperature Assay for Assessing the Stability of DNA Polyplexes Intended for Nonviral Gene Delivery. <i>Langmuir</i> , 2011, 27, 12042-12051.	1.6	23
27	Electrostatically Driven Complexation of Liposomes with a Star-shaped Polyelectrolyte to Low-toxicity Multi-liposomal Assemblies. <i>Macromolecular Bioscience</i> , 2014, 14, 491-495.	2.1	23
28	Facile Screening of Various Micellar Morphologies by Blending Miktoarm Stars and Diblock Copolymers. <i>ACS Macro Letters</i> , 2017, 6, 711-715.	2.3	23
29	Temperature-induced structure switch in thermo-responsive micellar interpolyelectrolyte complexes: toward core-shell-corona and worm-like morphologies. <i>Soft Matter</i> , 2016, 12, 5127-5137.	1.2	22
30	Improved adsorption of choline oxidase on a polyelectrolyte LBL film in the presence of iodide anions. <i>Soft Matter</i> , 2011, 7, 7404.	1.2	21
31	Compaction and Transmembrane Delivery of pDNA: Differences between I-PEI and Two Types of Amphiphilic Block Copolymers. <i>Biomacromolecules</i> , 2017, 18, 808-818.	2.6	21
32	Microgels enable capacious uptake and controlled release of architecturally complex macromolecular species. <i>Polymer</i> , 2017, 119, 50-58.	1.8	21
33	Janus-like interpolyelectrolyte complexes based on miktoarm stars. <i>Polymer</i> , 2013, 54, 6877-6881.	1.8	20
34	Efficient size control of copper nanoparticles generated in irradiated aqueous solutions of star-shaped polyelectrolyte containers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11490-11498.	1.3	19
35	Thermoresponsive Segments Retard the Formation of Equilibrium Micellar Interpolyelectrolyte Complexes by Detouring to Various Intermediate Structures. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6739-6748.	1.2	18
36	Loading of doxorubicin into surface-attached stimuli-responsive microgels and its subsequent release under different conditions. <i>Polymer</i> , 2021, 213, 123227.	1.8	17

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37	Water-soluble macromolecular co-assemblies of star-shaped polyelectrolytes. <i>Polymer International</i> , 2013, 62, 13-21.	1.6	16
38	Stimuli-responsive micellar interpolyelectrolyte complexes – control of micelle dynamics via core crosslinking. <i>Soft Matter</i> , 2012, 8, 10167.	1.2	15
39	Water-soluble complex macromolecular structures based on star-shaped poly(acrylic acid). <i>Doklady Physical Chemistry</i> , 2009, 425, 57-61.	0.2	14
40	Self-Templated Generation of Triggerable and Restorable Nonequilibrium Micelles. <i>ACS Macro Letters</i> , 2018, 7, 341-346.	2.3	14
41	Electrochemical studies of the interaction of rifampicin and nanosome/rifampicin with dsDNA. <i>Bioelectrochemistry</i> , 2021, 140, 107736.	2.4	14
42	Interpolyelectrolyte Complexation in Chloroform. <i>Langmuir</i> , 2010, 26, 7813-7818.	1.6	13
43	Anionic polymerization of N,N-dimethylacrylamide with thienyllithium and synthesis of block co-polymers of isobutylene and N,N-dimethylacrylamide by site transformation of chain ends. <i>Designed Monomers and Polymers</i> , 2006, 9, 63-79.	0.7	11
44	Rational Design of Amphiphilic Diblock Copolymer/MWCNT Surface Modifiers and Their Application for Direct Electrochemical Sensing of DNA. <i>Polymers</i> , 2020, 12, 1514.	2.0	11
45	Microgels in Tandem with Enzymes: Tuning Adsorption of a pH- and Thermo-responsive Microgel for Improved Design of Enzymatic Biosensors. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	11
46	Interpolyelectrolyte complexes of diblock copolymers via interaction of complementary polyelectrolyte-surfactant complexes in chloroform. <i>Polymer</i> , 2011, 52, 4296-4302.	1.8	10
47	Micellar interpolyelectrolyte complexes formed by star-shaped poly(acrylic acid) with double hydrophilic cationic diblock copolymer. <i>Doklady Physical Chemistry</i> , 2011, 441, 219-223.	0.2	9
48	Complexes of star-shaped cationic polyelectrolytes with anionic liposomes: Towards multi-liposomal assemblies with controllable stability. <i>Polymer</i> , 2016, 93, 198-203.	1.8	9
49	Electrochemical fingerprint of cytochrome c on a polymer/MWCNT nanocomposite electrode. <i>Mendelev Communications</i> , 2020, 30, 299-301.	0.6	9
50	Electroanalysis of Biomolecules: Rational Selection of Sensor Construction. <i>Biochemistry (Moscow)</i> , 2021, 86, S140-S151.	0.7	7
51	Salt effect on surface modification of silica by interpolyelectrolyte complexes. <i>Macromolecular Symposia</i> , 1998, 126, 157-171.	0.4	5
52	Composition and properties of complexes between anionic liposomes and diblock copolymers with cationic and poly(ethylene oxide) blocks. <i>Polymer International</i> , 2017, 66, 1669-1674.	1.6	5
53	Electrochemical characterization of mutant forms of rubredoxin B from <i>Mycobacterium tuberculosis</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2022, 1870, 140734.	1.1	2
54	Modeling of thermosensitive stereoregular polymers within the coarse-grained force field: Poly(N-isopropylacrylamide) as a benchmark case. <i>Physics of Fluids</i> , 2021, 33, 087110.	1.6	1

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55	Interpolyelectrolyte complexes as smart binders with controllable stability in water-salt solutions. , 1996, , .		1
56	Adsorption of poly(N-ethyl-4-vinyl pyridinium bromide) onto langmuir-blodgett films built up from amphiphilic polymers. Macromolecular Symposia, 2001, 164, 145-157.	0.4	0
57	Electrostatically Assembled Complex Macromolecular Architectures Based on Star- and Like Polyionic Species. , 2016, , 125-139.		0