Dmitry V Pergushov

List of Publications by Year
in descending order

57	1,912	257450 24	254184 43
papers	citations	h-index	g-index

58	58	58	1883
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Micellar interpolyelectrolyte complexes. Chemical Society Reviews, 2012, 41, 6888.	38.1	221
2	Synthesis of Poly(n-butyl acrylate)-block-poly(acrylic acid) Diblock Copolymers by ATRP and Their Micellization in Water. Macromolecules, 2007, 40, 4338-4350.	4.8	187
3	Dual-Stimuli-Sensitive Microgels as a Tool for Stimulated Spongelike Adsorption of Biomaterials for Biosensor Applications. Biomacromolecules, 2014, 15, 3735-3745.	5.4	110
4	Interpolyelectrolyte Complexes of Dynamic Multicompartment Micelles. ACS Nano, 2009, 3, 2095-2102.	14.6	99
5	Novel Water-Soluble Micellar Interpolyelectrolyte Complexesâ€. Journal of Physical Chemistry B, 2003, 107, 8093-8096.	2.6	87
6	Micelles of polyisobutylene-block-poly(methacrylic acid) diblock copolymers and their water-soluble interpolyelectrolyte complexes formed with quaternized poly(4-vinylpyridine). Polymer, 2004, 45, 367-378.	3.8	80
7	Polyisobutylene-block-poly(methacrylic acid) Diblock Copolymers:â€‰ Self-Assembly in Aqueous Media. Langmuir, 2007, 23, 12864-12874.	3.5	69
8	Water-Soluble Interpolyelectrolyte Complexes of Polyisobutylene-block-Poly(methacrylic acid) Micelles:â€‰ Formation and Properties. Langmuir, 2008, 24, 1769-1777.	3.5	67
9	Easy-Preparable Butyrylcholinesterase/Microgel Construct for Facilitated Organophosphate Biosensing. Analytical Chemistry, 2017, 89, 6091-6098.	6.5	51
10	Spontaneous Assembly of Miktoarm Stars into Vesicular Interpolyelectrolyte Complexes. Macromolecular Rapid Communications, 2013, 34, 855-860.	3.9	48
11	Water-Soluble Complexes of Star-Shaped Poly(acrylic acid) with Quaternized Poly(4-vinylpyridine). Langmuir, 2008, 24, 6414-6419.	3.5	44
12	Advanced Functional Structures Based on Interpolyelectrolyte Complexes. Advances in Polymer Science, 2013, , 173-225.	0.8	40
13	Engineering Systems with Spatially Separated Enzymes via Dual-Stimuli-Sensitive Properties of Microgels. Langmuir, 2015, 31, 13029-13039.	3.5	39
14	Interpolyelectrolyte Complexes Based on Polyionic Species of Branched Topology. Advances in Polymer Science, 2010, , 131-161.	0.8	38
15	Quaternized microgels as soft templates for polyelectrolyte layer-by-layer assemblies. Polymer, 2014, 55, 1991-1999.	3.8	36
16	Surface Functionalization by Stimuli-Sensitive Microgels for Effective Enzyme Uptake and Rational Design of Biosensor Setups. Polymers, 2018, 10, 791.	4.5	36
17	Long-term stable poly(ionic liquid)/MWCNTs inks enable enhanced surface modification for electrooxidative detection and quantification of dsDNA. Polymer, 2019, 168, 95-103.	3.8	32
18	Sequential pHâ€Dependent Adsorption of Ionic Amphiphilic Diblock Copolymer Micelles and Choline Oxidase Onto Conductive Substrates: Toward the Design of Biosensors. Macromolecular Bioscience, 2014, 14, 1039-1051.	4.1	30

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19	The Influence of the Chain Length of Polycations on their Complexation with Anionic Liposomes. ChemPhysChem, 2015, 16, 2849-2853.	2.1	30
20	Co-assemblies of micelle-forming diblock copolymers and enzymes on graphite substrate for an improved design of biosensor systems. Soft Matter, 2013, 9, 2858.	2.7	29
21	Polyelectrolytes with Tunable Charge Based on Polydehydroalanine: Synthesis and Solution Properties. Macromolecular Chemistry and Physics, 2013, 214, 2202-2212.	2.2	29
22	All-electrochemical nanocomposite two-electrode setup for quantification of drugs and study of their electrocatalytical conversion by cytochromes P450. Electrochimica Acta, 2020, 336, 135579.	5.2	29
23	Facilitated biosensing via direct electron transfer of myoglobin integrated into diblock copolymer/multi-walled carbon nanotube nanocomposites. Journal of Materials Chemistry B, 2015, 3, 5467-5477.	5.8	27
24	Nano-patterned structures in cylindrical polyelectrolyte brushes assembled with oppositely charged polyions. Soft Matter, 2009, 5, 4938.	2.7	25
25	Interpolyelectrolyte complexes based on hyaluronic acid-block-poly(ethylene glycol) and poly-l-lysine. Soft Matter, 2013, 9, 4297.	2.7	24
26	DNA Melting Temperature Assay for Assessing the Stability of DNA Polyplexes Intended for Nonviral Gene Delivery. Langmuir, 2011, 27, 12042-12051.	3.5	23
27	Electrostatically Driven Complexation of Liposomes with a Starâ€‹scp›S‹/scp›haped Polyelectrolyte to Lowâ€‹scp›T‹/scp›oxicity Multiâ€‹scp›L‹/scp›iposomal Assemblies. Macromolecular Bioscience, 2014, 14, 491-495.	4.1	23
28	Facile Screening of Various Micellar Morphologies by Blending Miktoarm Stars and Diblock Copolymers. ACS Macro Letters, 2017, 6, 711-715.	4.8	23
29	Temperature-induced structure switch in thermo-responsive micellar interpolyelectrolyte complexes: toward coreâ€“shellâ€“corona and worm-like morphologies. Soft Matter, 2016, 12, 5127-5137.	2.7	22
30	Improved adsorption of choline oxidase on a polyelectrolyte LBL film in the presence of iodide anions. Soft Matter, 2011, 7, 7404.	2.7	21
31	Compaction and Transmembrane Delivery of pDNA: Differences between l-PEI and Two Types of Amphiphilic Block Copolymers. Biomacromolecules, 2017, 18, 808-818.	5.4	21
32	Microgels enable capacious uptake and controlled release of architecturally complex macromolecular species. Polymer, 2017, 119, 50-58.	3.8	21
33	Janus-like interpolyelectrolyte complexes based on miktoarm stars. Polymer, 2013, 54, 6877-6881.	3.8	20
34	Efficient size control of copper nanoparticles generated in irradiated aqueous solutions of star-shaped polyelectrolyte containers. Physical Chemistry Chemical Physics, 2015, 17, 11490-11498.	2.8	19
35	Thermoresponsive Segments Retard the Formation of Equilibrium Micellar Interpolyelectrolyte Complexes by Detouring to Various Intermediate Structures. Journal of Physical Chemistry B, 2017, 121, 6739-6748.	2.6	18
36	Loading of doxorubicin into surface-attached stimuli-responsive microgels and its subsequent release under different conditions. Polymer, 2021, 213, 123227.	3.8	17

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37	Waterâ€soluble macromolecular coâ€assemblies of starâ€shaped polyelectrolytes. Polymer International, 2013, 62, 13-21.	3.1	16
38	Stimuli-responsive micellar interpolyelectrolyte complexes â€“ control of micelle dynamics via core crosslinking. Soft Matter, 2012, 8, 10167.	2.7	15
39	Water-soluble complex macromolecular structures based on star-shaped poly(acrylic acid). Doklady Physical Chemistry, 2009, 425, 57-61.	0.9	14
40	Self-Templated Generation of Triggerable and Restorable Nonequilibrium Micelles. ACS Macro Letters, 2018, 7, 341-346.	4.8	14
41	Electrochemical studies of the interaction of rifampicin and nanosome/rifampicin with dsDNA. Bioelectrochemistry, 2021, 140, 107736.	4.6	14
42	Interpolyelectrolyte Complexation in Chloroform. Langmuir, 2010, 26, 7813-7818.	3.5	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. Designed Monomers and Polymers, 2006, 9, 63-79.	1.6	11
44	Rational Design of Amphiphilic Diblock Copolymer/MWCNT Surface Modifiers and Their Application for Direct Electrochemical Sensing of DNA. Polymers, 2020, 12, 1514.	4.5	11
45	Microgels in Tandem with Enzymes: Tuning Adsorption of a pHâ€and Thermoresponsive Microgel for Improved Design of Enzymatic Biosensors. Advanced Materials Interfaces, 2022, 9, .	3.7	11
46	Interpolyelectrolyte complexes of diblock copolymers via interaction of complementary polyelectrolyteâ€“surfactant complexes in chloroform. Polymer, 2011, 52, 4296-4302.	3.8	10
47	Micellar interpolyelectrolyte complexes formed by star-shaped poly(acrylic acid) with double hydrophilic cationic diblock copolymer. Doklady Physical Chemistry, 2011, 441, 219-223.	0.9	9
48	Complexes of star-shaped cationic polyelectrolytes with anionic liposomes: Towards multi-liposomal assemblies with controllable stability. Polymer, 2016, 93, 198-203.	3.8	9
49	Electrochemical fingerprint of cytochrome c on a polymer/MWCNT nanocomposite electrode. Mendeleev Communications, 2020, 30, 299-301.	1.6	9
50	Electroanalysis of Biomolecules: Rational Selection of Sensor Construction. Biochemistry (Moscow), 2021, 86, S140-S151.	1.5	7
51	Salt effect on surface modification of silica by interpolyelectrolyte complexes. Macromolecular Symposia, 1998, 126, 157-171.	0.7	5
52	Composition and properties of complexes between anionic liposomes and diblock copolymers with cationic and poly(ethylene oxide) blocks. Polymer International, 2017, 66, 1669-1674.	3.1	5
53	Electrochemical characterization of mutant forms of rubredoxin B from Mycobacterium tuberculosis. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2022, 1870, 140734.	2.3	2
54	Modeling of thermosensitive stereoregular polymers within the coarse-grained force field: Poly(N-isopropylacrylamide) as a benchmark case. Physics of Fluids, 2021, 33, 087110.	4.0	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.	0.7	0
57	Electrostatically Assembled Complex Macromolecular Architectures Based on Star‐Like Polyionic Species. , 2016, , 125-139.		0