

Piotr Batys

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

440
citations

12
h-index

20
g-index

36
ext. papers

569
ext. citations

5.9
avg, IF

4.14
L-index

#	Paper	IF	Citations
33	Effect of Ethanol and Urea as Solvent Additives on PSS-PDADMA Polyelectrolyte Complexation.. <i>Macromolecules</i> , 2022 , 55, 3140-3150	5.5	0
32	Random sequential adsorption: An efficient tool for investigating the deposition of macromolecules and colloidal particles. <i>Advances in Colloid and Interface Science</i> , 2022 , 102692	14.3	1
31	Macroion molecule properties from slender body hydrodynamics. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 3900-3908	3.2	1
30	Synergistic Effect of Binary Surfactant Mixtures in Two-Phase and Three-Phase Systems. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 3855-3866	3.4	2
29	Adsorption kinetic of myoglobin on mica and silica - Role of electrostatic interactions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 198, 111436	6	3
28	Relaxation Times of Solid-like Polyelectrolyte Complexes of Varying pH and Water Content. <i>Macromolecules</i> , 2021 , 54, 7765-7776	5.5	5
27	SARS-CoV-2 virion physicochemical characteristics pertinent to abiotic substrate attachment. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 55, 101466	7.6	1
26	Self-Assembly of Silk-like Protein into Nanoscale Bicontinuous Networks under Phase-Separation Conditions. <i>Biomacromolecules</i> , 2021 , 22, 690-700	6.9	3
25	Analyzing the weak dimerization of a cellulose binding module by analytical ultracentrifugation. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 1995-2004	7.9	4
24	pH-Induced Changes in Polypeptide Conformation: Force-Field Comparison with Experimental Validation. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 2961-2972	3.4	12
23	Effect of particle surface corrugation on colloidal interactions. <i>Journal of Colloid and Interface Science</i> , 2020 , 579, 794-804	9.3	4
22	Fourier transform infrared spectroscopy investigation of water microenvironments in polyelectrolyte multilayers at varying temperatures. <i>Soft Matter</i> , 2020 , 16, 2291-2300	3.6	14
21	Myoglobin molecule charging in electrolyte solutions. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 26764-26775	6.4	35
20	Comparing water-mediated hydrogen-bonding in different polyelectrolyte complexes. <i>Soft Matter</i> , 2019 , 15, 7823-7831	3.6	17
19	Time-Temperature and Time-Water Superposition Principles Applied to Poly(allylamine)/Poly(acrylic acid) Complexes. <i>Macromolecules</i> , 2019 , 52, 3066-3074	5.5	39
18	Formation of Strong Polycation (Poly[(3-allylamino-2-hydroxypropyl)trimethylammonium chloride]) Monolayers on Mica, Silica, and Gold Substrates: Modeling and Experimental Studies. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19022-19032	3.8	3
17	Molecular crowding facilitates assembly of spidroin-like proteins through phase separation. <i>European Polymer Journal</i> , 2019 , 112, 539-546	5.2	12

16	Molecular Origin of the Glass Transition in Polyelectrolyte Assemblies. <i>ACS Central Science</i> , 2018 , 4, 638-648	6.8	74
15	Particulate Coatings via Evaporation-Induced Self-Assembly of Polydisperse Colloidal Lignin on Solid Interfaces. <i>Langmuir</i> , 2018 , 34, 5759-5771	4	30
14	QCM-D Investigation of Swelling Behavior of Layer-by-Layer Thin Films upon Exposure to Monovalent Ions. <i>Langmuir</i> , 2018 , 34, 999-1009	4	40
13	Hydration and Temperature Response of Water Mobility in Poly(diallyldimethylammonium)-Poly(sodium 4-styrenesulfonate) Complexes. <i>Macromolecules</i> , 2018 , 51, 8268-8277	5.5	28
12	Conformations of Poly-L-lysine Molecules in Electrolyte Solutions: Modeling and Experimental Measurements. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23180-23190	3.8	13
11	Ability of the Poisson-Boltzmann equation to capture molecular dynamics predicted ion distribution around polyelectrolytes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24583-24593	3.6	31
10	Wet formation and structural characterization of quasi-hexagonal monolayers. <i>Journal of Colloid and Interface Science</i> , 2016 , 461, 211-214	9.3	6
9	Effective diffusivity of colloidal particle multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 510, 176-182	5.1	2
8	Synthesis and quantitative characterization of non-conductive colloidal particle multilayers. <i>Electrochimica Acta</i> , 2015 , 164, 71-80	6.7	3
7	Mapping single macromolecule chains using the colloid deposition method: PDADMAC on mica. <i>Journal of Colloid and Interface Science</i> , 2015 , 450, 82-90	9.3	11
6	Structure analysis of layer-by-layer multilayer films of colloidal particles. <i>Applied Surface Science</i> , 2015 , 332, 318-327	6.7	8
5	Cyclic Voltammetry Characterization of Microparticle Monolayers. <i>Electrochimica Acta</i> , 2014 , 133, 241-246	6.7	11
4	Influence of ionic strength on poly(diallyldimethylammonium chloride) macromolecule conformations in electrolyte solutions. <i>Journal of Colloid and Interface Science</i> , 2014 , 435, 182-90	9.3	30
3	Porosity and tortuosity of layer-by-layer assemblies of spherical particles. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 065017	2	6
2	Limiting diffusion current at rotating disk electrode with dense particle layer. <i>Journal of Chemical Physics</i> , 2013 , 139, 124705	3.9	11
1	Modeling of LbL multilayers with controlled thickness, roughness, and specific surface area. <i>Journal of Chemical Physics</i> , 2012 , 137, 214706	3.9	11