

Ivan Popov

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

468
citations

933447

10
h-index

794594

19
g-index

22
all docs

22
docs citations

22
times ranked

666
citing authors

#	ARTICLE	IF	CITATIONS
1	The mechanism of the dielectric relaxation in water. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13941-13953.	2.8	129
2	The puzzling first-order phase transition in water-glycerol mixtures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18063-18071.	2.8	47
3	Strong Reduction in Amplitude of the Interfacial Segmental Dynamics in Polymer Nanocomposites. <i>Macromolecules</i> , 2020, 53, 4126-4135.	4.8	46
4	The dynamic crossover in dielectric relaxation behavior of ice Ih. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1489-1497.	2.8	43
5	Critical Role of Anion-Solvent Interactions for Dynamics of Solvent-in-Salt Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8457-8466.	3.1	32
6	The low-temperature dynamic crossover in the dielectric relaxation of ice I _h . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28610-28620.	2.8	25
7	Strongly Correlated Ion Dynamics in Plastic Ionic Crystals and Polymerized Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17889-17896.	3.1	22
8	Justification of the empirical laws of the anomalous dielectric relaxation in the framework of the memory function formalism. <i>Fractional Calculus and Applied Analysis</i> , 2014, 17, 247-258.	2.2	21
9	Water in the hydrated protein powders: Dynamic and structure. <i>Journal of Chemical Physics</i> , 2019, 150, 204504.	3.0	20
10	Dielectric Relaxation of Hydration Water in Native Collagen Fibrils. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5340-5346.	2.6	16
11	Layer-by-Layer Assembly Strategy for Reinforcing the Mechanical Strength of an Ionogel Electrolyte without Affecting Ionic Conductivity. <i>ACS Applied Energy Materials</i> , 2020, 3, 1265-1270.	5.1	12
12	Improving Gas Selectivity in Membranes Using Polymer-Grafted Silica Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021, 4, 5895-5903.	5.0	10
13	Structural correlations tailor conductive properties in polymerized ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14775-14785.	2.8	9
14	A Study of Moisture Sorption and Dielectric Processes of Starch and Sodium Starch Glycolate. <i>Pharmaceutical Research</i> , 2017, 34, 2675-2688.	3.5	7
15	Addition of Chloroform in a Solvent-in-Salt Electrolyte: Outcomes in the Microscopic Dynamics in Bulk and Confinement. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22366-22375.	3.1	7
16	Beyond Simple Dilution: Superior Conductivities from Cosolvation of Acetonitrile/LiTFSI Concentrated Solution with Acetone. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2788-2796.	3.1	6
17	Controlling the Ion Transport Number in Solvent-in-Salt Solutions. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4572-4583.	2.6	5
18	Confined water dynamics in a hydrated photosynthetic pigment-protein complex. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28063-28070.	2.8	4

#	ARTICLE	IF	CITATIONS
19	Tuning the Properties of Nanocomposites by Trapping Them in Deep Metastable States. ACS Applied Polymer Materials, 2022, 4, 3174-3182.	4.4	3
20	Reply to the "Comment on "Critical Role of Anion-Solvent Interactions for Dynamics of Solvent-in-Salt Solutions". Journal of Physical Chemistry C, 2021, 125, 9585-9586.	3.1	0
21	Fundamentals of Dielectric Spectroscopy in Polymer Nanocomposites. Advances in Dielectrics, 2022, , 35-61.	1.2	0