

# Alexei P Sokolov

## List of Publications by Year in descending order

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207  
papers

11,810  
citations

17429

63  
h-index

34964

98  
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212  
all docs

212  
docs citations

212  
times ranked

8543  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surpassing the stiffness-extensibility trade-off of elastomers via mastering the hydrogen-bonding clusters. <i>Matter</i> , 2022, 5, 237-252.	5.0	40
2	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.	1.5	6
3	Fundamentals of Dielectric Spectroscopy in Polymer Nanocomposites. <i>Advances in Dielectrics</i> , 2022, , 35-61.	1.2	0
4	Unravelling the Mechanism of Viscoelasticity in Polymers with Phase-Separated Dynamic Bonds. <i>ACS Nano</i> , 2022, 16, 4746-4755.	7.3	23
5	Influence of Attractive Functional Groups on the Segmental Dynamics and Glass Transition in Associating Polymers. <i>Macromolecules</i> , 2022, 55, 2345-2357.	2.2	12
6	Tuning the Properties of Nanocomposites by Trapping Them in Deep Metastable States. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3174-3182.	2.0	3
7	Elastic Forces and Molecular Transport through Polymer Matrices. <i>Macromolecules</i> , 2022, 55, 3762-3768.	2.2	2
8	Elastic vitrimers: Beyond thermoplastic and thermoset elastomers. <i>Matter</i> , 2022, 5, 1391-1422.	5.0	90
9	Controlling the Ion Transport Number in Solvent-in-Salt Solutions. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4572-4583.	1.2	5
10	Anomalously high elastic modulus of a poly(ethylene oxide)-based composite electrolyte. <i>Energy Storage Materials</i> , 2021, 35, 431-442.	9.5	42
11	The puzzling role of symmetry: a tool for macromolecular engineering. , 2021, , 3-19.		0
12	Turning Rubber into a Glass: Mechanical Reinforcement by Microphase Separation. <i>ACS Macro Letters</i> , 2021, 10, 197-202.	2.3	12
13	Polymer Dynamics in Nanostructured Environments: Structure-Property Relations Unraveled by Dielectric Spectroscopy. <i>ACS Symposium Series</i> , 2021, , 223-238.	0.5	1
14	Critical Role of the Interfacial Layer in Associating Polymers with Microphase Separation. <i>Macromolecules</i> , 2021, 54, 4246-4256.	2.2	22
15	Reply to the "Comment on "Critical Role of Anion" Solvent Interactions for Dynamics of Solvent-in-Salt Solutions". <i>Journal of Physical Chemistry C</i> , 2021, 125, 9585-9586.	1.5	0
16	Improving Gas Selectivity in Membranes Using Polymer-Grafted Silica Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021, 4, 5895-5903.	2.4	10
17	Collective Nanoparticle Dynamics Associated with Bridging Network Formation in Model Polymer Nanocomposites. <i>ACS Nano</i> , 2021, 15, 11501-11513.	7.3	34
18	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid. <i>Advanced Functional Materials</i> , 2021, 31, 2104007.	7.8	64

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19	Investigation of Unusual Conductivity Behavior and Ion Dynamics in Hexamethylguanidinium Bis(fluorosulfonyl)imide-Based Electrolytes for Sodium Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12518-12530.	1.5	15
20	Direct Structural Evidence for Interfacial Gradients in Asymmetric Polymer Nanocomposite Blends. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 36262-36274.	4.0	8
21	Polymers with Dynamic Bonds: Adaptive Functional Materials for a Sustainable Future. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9389-9401.	1.2	66
22	Shape Persistent, Highly Conductive Ionogels from Ionic Liquids Reinforced with Cellulose Nanocrystal Network. <i>Advanced Functional Materials</i> , 2021, 31, 2103083.	7.8	42
23	The relationship between charge and molecular dynamics in viscous acid hydrates. <i>Journal of Chemical Physics</i> , 2021, 155, 014505.	1.2	5
24	Glass-fiber-reinforced polymeric film as an efficient protecting layer for stable Li metal electrodes. <i>Cell Reports Physical Science</i> , 2021, 2, 100534.	2.8	15
25	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid ( <i>Adv. Funct. Mater.</i> 33/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170246.	7.8	2
26	Distilling nanoscale heterogeneity of amorphous silicon using tip-enhanced Raman spectroscopy (TERS) via multiresolution manifold learning. <i>Nature Communications</i> , 2021, 12, 578.	5.8	25
27	Tuning proton conductivity and energy barriers for proton transfer. <i>Journal of Chemical Physics</i> , 2021, 154, 014503.	1.2	1
28	Quantitative Evidence of Mobile Ion Hopping in Polymerized Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2021, 125, 372-381.	1.2	15
29	Rational Polymer Design of Stretchable Poly(ionic liquid) Membranes for Dual Applications. <i>Macromolecules</i> , 2021, 54, 896-905.	2.2	19
30	Design of tough adhesive from commodity thermoplastics through dynamic crosslinking. <i>Science Advances</i> , 2021, 7, eabk2451.	4.7	66
31	Unraveling the Role of Neutral Units for Single-Ion Conducting Polymer Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51525-51534.	4.0	18
32	Single-Ion Conducting Polymer Nanoparticles as Functional Fillers for Solid Electrolytes in Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54354-54362.	4.0	38
33	Viscoelasticity in associating oligomers and polymers: experimental test of the bond lifetime renormalization model. <i>Soft Matter</i> , 2020, 16, 390-401.	1.2	40
34	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.	1.5	7
35	Tuning the dynamics of imidazolium-based ionic liquids via hydrogen bonding. I. The viscous regime. <i>Journal of Chemical Physics</i> , 2020, 153, 194501.	1.2	14
36	Role of Fast Dynamics in Conductivity of Polymerized Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10539-10545.	1.2	2

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37	Strongly Correlated Ion Dynamics in Plastic Ionic Crystals and Polymerized Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17889-17896.	1.5	22
38	Bridging-Controlled Network Microstructure and Long-Wavelength Fluctuations in Silica-Poly(2-vinylpyridine) Nanocomposites: Experimental Results and Theoretical Analysis. <i>Macromolecules</i> , 2020, 53, 6984-6994.	2.2	20
39	Recent Developments and Challenges in Hybrid Solid Electrolytes for Lithium-Ion Batteries. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	52
40	Improved Single-Ion Conductivity of Polymer Electrolyte via Accelerated Segmental Dynamics. <i>ACS Applied Energy Materials</i> , 2020, 3, 12540-12548.	2.5	31
41	Strong Reduction in Amplitude of the Interfacial Segmental Dynamics in Polymer Nanocomposites. <i>Macromolecules</i> , 2020, 53, 4126-4135.	2.2	46
42	Ionic Liquid-Directed Nanoporous TiNb <sub>2</sub> O <sub>7</sub> Anodes with Superior Performance for Fast-Rechargeable Lithium-Ion Batteries. <i>Small</i> , 2020, 16, e2001884.	5.2	69
43	Adhesive Polymers as Efficient Binders for High-Capacity Silicon Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 3387-3396.	2.5	34
44	Addition of Short Polymer Chains Mechanically Reinforces Glassy Poly(2-vinylpyridine)-Silica Nanoparticle Nanocomposites. <i>ACS Applied Nano Materials</i> , 2020, 3, 3427-3438.	2.4	21
45	Correlation between the temperature evolution of the interfacial region and the growing dynamic cooperativity length scale. <i>Journal of Chemical Physics</i> , 2020, 152, 094904.	1.2	19
46	Capacitance of thin films containing polymerized ionic liquids. <i>Science Advances</i> , 2020, 6, eaba7952.	4.7	12
47	Critical Role of Anion-Solvent Interactions for Dynamics of Solvent-in-Salt Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8457-8466.	1.5	32
48	Perspectives for Polymer Electrolytes: A View from Fundamentals of Ionic Conductivity. <i>Macromolecules</i> , 2020, 53, 4141-4157.	2.2	221
49	Proton Transfer in Phosphoric Acid-Based Protic Ionic Liquids: Effects of the Base. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4141-4149.	1.1	6
50	Elastic Single-Ion Conducting Polymer Electrolytes: Toward a Versatile Approach for Intrinsically Stretchable Functional Polymers. <i>Macromolecules</i> , 2020, 53, 3591-3601.	2.2	41
51	Review-Polymer/Ceramic Interface Barriers: The Fundamental Challenge for Advancing Composite Solid Electrolytes for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 160514.	1.3	45
52	Structure and dynamics of short-chain polymerized ionic liquids. <i>Journal of Chemical Physics</i> , 2019, 151, 034903.	1.2	18
53	Tailored CO <sub>2</sub> -philic Gas Separation Membranes via One-Pot Thiol-ene Chemistry. <i>Macromolecules</i> , 2019, 52, 5819-5828.	2.2	20
54	Unraveling the Nanoscale Heterogeneity of Solid Electrolyte Interphase Using Tip-Enhanced Raman Spectroscopy. <i>Joule</i> , 2019, 3, 2001-2019.	11.7	99

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55	What dielectric spectroscopy can tell us about supramolecular networks. European Physical Journal E, 2019, 42, 133.	0.7	30
56	Noncontact tip-enhanced Raman spectroscopy for nanomaterials and biomedical applications. Nanoscale Advances, 2019, 1, 3392-3399.	2.2	7
57	Tailored crosslinking of Poly(ethylene oxide) enables mechanical robustness and improved sodium-ion conductivity. Energy Storage Materials, 2019, 21, 85-96.	9.5	43
58	Understanding the Static Interfacial Polymer Layer by Exploring the Dispersion States of Nanocomposites. ACS Applied Materials & Interfaces, 2019, 11, 17863-17872.	4.0	35
59	Rational Design of a Multifunctional Binder for High-Capacity Silicon-Based Anodes. ACS Energy Letters, 2019, 4, 1171-1180.	8.8	108
60	Fundamental parameters governing ion conductivity in polymer electrolytes. Electrochimica Acta, 2019, 299, 191-196.	2.6	56
61	Elastic Single-Ion Conducting Polymer Electrolyte. ECS Meeting Abstracts, 2019, , .	0.0	0
62	(Invited) Solid-Electrolyte Interface and Interphase Depicted By Plasmon-Enhanced Raman Spectroscopy. ECS Meeting Abstracts, 2019, , .	0.0	0
63	Dual-Functional Polymer Binders for Silicon Based Electrodes. ECS Meeting Abstracts, 2019, , .	0.0	0
64	Theory and Simulation of Attractive Nanoparticle Transport in Polymer Melts. Macromolecules, 2018, 51, 2258-2267.	2.2	38
65	Diffusion of Sticky Nanoparticles in a Polymer Melt: Crossover from Suppressed to Enhanced Transport. Macromolecules, 2018, 51, 2268-2275.	2.2	52
66	Superstretchable, Self-Healing Polymeric Elastomers with Tunable Properties. Advanced Functional Materials, 2018, 28, 1800741.	7.8	162
67	Carbon Dioxide Separation: Highly Permeable Oligo(ethylene oxide)-co-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation (Adv. Sustainable Syst. 4/2018). Advanced Sustainable Systems, 2018, 2, 1870030.	2.7	1
68	Hydrogen-bond strength changes network dynamics in associating telechelic PDMS. Soft Matter, 2018, 14, 1235-1246.	1.2	43
69	Highly Permeable Oligo(ethylene oxide)-co-poly(dimethylsiloxane) Membranes for Carbon Dioxide Separation. Advanced Sustainable Systems, 2018, 2, 1700113.	2.7	6
70	Effect of Binder Architecture on the Performance of Silicon/Graphite Composite Anodes for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 3470-3478.	4.0	77
71	Impact of hydration and temperature history on the structure and dynamics of lignin. Green Chemistry, 2018, 20, 1602-1611.	4.6	30
72	Neutron scattering in the biological sciences: progress and prospects. Acta Crystallographica Section D: Structural Biology, 2018, 74, 1129-1168.	1.1	47

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73	Viscoelastic properties and ion dynamics in star-shaped polymerized ionic liquids. <i>European Polymer Journal</i> , 2018, 109, 326-335.	2.6	16
74	The Role of Chain-End Association Lifetime in Segmental and Chain Dynamics of Telechelic Polymers. <i>Macromolecules</i> , 2018, 51, 8561-8573.	2.2	42
75	Fundamental Limitations of Ionic Conductivity in Polymerized Ionic Liquids. <i>Macromolecules</i> , 2018, 51, 8637-8645.	2.2	103
76	Anti-soiling and highly transparent coatings with multi-scale features. <i>Solar Energy Materials and Solar Cells</i> , 2018, 188, 255-262.	3.0	30
77	Enhancing the Mechanical Properties of Glassy Nanocomposites by Tuning Polymer Molecular Weight. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33601-33610.	4.0	58
78	Surprising Temperature Scaling of Viscoelastic Properties in Polymers. <i>Macromolecules</i> , 2018, 51, 4874-4881.	2.2	13
79	Transient Nonlinear Response of Dynamically Decoupled Ionic Conductors. <i>Physical Review Letters</i> , 2018, 121, 064503.	2.9	13
80	(Invited) Investigation of Solid Electrolyte Interphase on Amorphous SiO <sub>2</sub> /Si Films Using Tip Enhanced Raman Spectroscopy. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
81	Probing the Nanoscale Heterogeneity of SEI on Silicon Anode Using Tip Enhanced Raman Spectroscopy (TERS). <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
82	Atomistic details of protein dynamics and the role of hydration water. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3546-3552.	1.1	37
83	Unraveling the Molecular Weight Dependence of Interfacial Interactions in Poly(2-vinylpyridine)/Silica Nanocomposites. <i>ACS Macro Letters</i> , 2017, 6, 68-72.	2.3	65
84	Impact of tuning CO <sub>2</sub> -philicity in polydimethylsiloxane-based membranes for carbon dioxide separation. <i>Journal of Membrane Science</i> , 2017, 530, 213-219.	4.1	31
85	Gas separation mechanism of CO <sub>2</sub> selective amidoxime-poly(1-trimethylsilyl-1-propyne) membranes. <i>Polymer Chemistry</i> , 2017, 8, 3341-3350.	1.9	25
86	Quantum effects in dynamics of water and other liquids of light molecules. <i>European Physical Journal E</i> , 2017, 40, 57.	0.7	11
87	A Rayleighian approach for modeling kinetics of ionic transport in polymeric media. <i>Journal of Chemical Physics</i> , 2017, 146, 064902.	1.2	12
88	Focus: Structure and dynamics of the interfacial layer in polymer nanocomposites with attractive interactions. <i>Journal of Chemical Physics</i> , 2017, 146, 203201.	1.2	114
89	Decoupling of ion conductivity from segmental dynamics in oligomeric ethylene oxide functionalized oxanorbornene dicarboximide homopolymers. <i>Polymer</i> , 2017, 116, 218-225.	1.8	13
90	Interfacial Properties of Polymer Nanocomposites: Role of Chain Rigidity and Dynamic Heterogeneity Length Scale. <i>Macromolecules</i> , 2017, 50, 2397-2406.	2.2	115

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91	Big Effect of Small Nanoparticles: A Shift in Paradigm for Polymer Nanocomposites. ACS Nano, 2017, 11, 752-759.	7.3	177
92	Effect of Chain Rigidity on the Decoupling of Ion Motion from Segmental Relaxation in Polymerized Ionic Liquids: Ambient and Elevated Pressure Studies. Macromolecules, 2017, 50, 6710-6721.	2.2	78
93	Polymer-Grafted Nanoparticle Membranes with Controllable Free Volume. Macromolecules, 2017, 50, 7111-7120.	2.2	88
94	Effects of counterion size and backbone rigidity on the dynamics of ionic polymer melts and glasses. Physical Chemistry Chemical Physics, 2017, 19, 27442-27451.	1.3	22
95	Revealing the Charge Transport Mechanism in Polymerized Ionic Liquids: Insight from High Pressure Conductivity Studies. Chemistry of Materials, 2017, 29, 8082-8092.	3.2	32
96	Robust and Elastic Polymer Membranes with Tunable Properties for Gas Separation. ACS Applied Materials & Interfaces, 2017, 9, 26483-26491.	4.0	32
97	A star-shaped single lithium-ion conducting copolymer by grafting a POSS nanoparticle. Polymer, 2017, 124, 117-127.	1.8	45
98	Analyzing the Interfacial Layer Properties in Polymer Nanocomposites by Broadband Dielectric Spectroscopy. Macromolecules, 2017, 50, 6149-6163.	2.2	86
99	Simple-liquid dynamics emerging in the mechanical shear spectra of poly(propylene glycol). Colloid and Polymer Science, 2017, 295, 2433.	1.0	2
100	Influence of Chain Rigidity and Dielectric Constant on the Glass Transition Temperature in Polymerized Ionic Liquids. Journal of Physical Chemistry B, 2017, 121, 11511-11519.	1.2	82
101	Interplay between local dynamics and mechanical reinforcement in glassy polymer nanocomposites. Physical Review Materials, 2017, 1, .	0.9	29
102	Accessing Siloxane Functionalized Polynorbornenes via Vinyl-Addition Polymerization for CO <sub>2</sub> Separation Membranes. ACS Macro Letters, 2016, 5, 879-883.	2.3	46
103	Role of quantum fluctuations in structural dynamics of liquids of light molecules. Journal of Chemical Physics, 2016, 145, 234507.	1.2	2
104	Correlation between temperature variations of static and dynamic properties in glass-forming liquids. Physical Review E, 2016, 94, 060603.	0.8	18
105	Communication: Influence of nanophase segregation on ion transport in room temperature ionic liquids. Journal of Chemical Physics, 2016, 144, 151104.	1.2	16
106	Why many polymers are so fragile: A new perspective. Journal of Chemical Physics, 2016, 145, 154901.	1.2	40
107	Unraveling the Mechanism of Nanoscale Mechanical Reinforcement in Glassy Polymer Nanocomposites. Nano Letters, 2016, 16, 3630-3637.	4.5	142
108	Impact of Hydrogen Bonding on Dynamics of Hydroxyl-Terminated Polydimethylsiloxane. Macromolecules, 2016, 49, 3138-3147.	2.2	55

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109	Mechanism of Conductivity Relaxation in Liquid and Polymeric Electrolytes: Direct Link between Conductivity and Diffusivity. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11074-11083.	1.2	101
110	Proton Conductivity in Phosphoric Acid: The Role of Quantum Effects. <i>Physical Review Letters</i> , 2016, 117, 156001.	2.9	16
111	Oscillatory behaviour of the surface reduction process of multilayer graphene oxide at room temperature. <i>RSC Advances</i> , 2016, 6, 78194-78201.	1.7	4
112	Unexpected Molecular Weight Effect in Polymer Nanocomposites. <i>Physical Review Letters</i> , 2016, 116, 038302.	2.9	134
113	Identification of Structural Relaxation in the Dielectric Response of Water. <i>Physical Review Letters</i> , 2016, 116, 237601.	2.9	48
114	Effect of Molecular Weight on the Ion Transport Mechanism in Polymerized Ionic Liquids. <i>Macromolecules</i> , 2016, 49, 4557-4570.	2.2	121
115	Controlling Interfacial Dynamics: Covalent Bonding versus Physical Adsorption in Polymer Nanocomposites. <i>ACS Nano</i> , 2016, 10, 6843-6852.	7.3	152
116	Graphene Oxide as a Radical Initiator: Free Radical and Controlled Radical Polymerization of Sodium 4-Vinylbenzenesulfonate with Graphene Oxide. <i>ACS Macro Letters</i> , 2016, 5, 199-202.	2.3	24
117	Nanoscale imaging and identification of a four-component carbon sample. <i>Carbon</i> , 2016, 96, 588-593.	5.4	14
118	Effect of Cross-Link Density on Carbon Dioxide Separation in Polydimethylsiloxane-Norbornene Membranes. <i>ChemSusChem</i> , 2015, 8, 3524-3524.	3.6	2
119	Qualitative change in structural dynamics of some glass-forming systems. <i>Physical Review E</i> , 2015, 92, 062304.	0.8	27
120	Revealing spatially heterogeneous relaxation in a model nanocomposite. <i>Journal of Chemical Physics</i> , 2015, 143, 194704.	1.2	57
121	Identification of individual isotopes in a polymer blend using tip enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 447-450.	1.2	9
122	Effect of Cross-Link Density on Carbon Dioxide Separation in Polydimethylsiloxane-Norbornene Membranes. <i>ChemSusChem</i> , 2015, 8, 3595-3604.	3.6	21
123	Controlled Nanopatterning of a Polymerized Ionic Liquid in a Strong Electric Field. <i>Advanced Functional Materials</i> , 2015, 25, 805-811.	7.8	13
124	Rapid and Facile Formation of P3HT Organogels via Spin Coating: Tuning Functional Properties of Organic Electronic Thin Films. <i>Advanced Functional Materials</i> , 2015, 25, 5848-5857.	7.8	15
125	Polymer composites prepared by low-temperature post-irradiation polymerization of C <sub>2</sub> F <sub>4</sub> in the presence of graphene-like material: synthesis and characterization. <i>RSC Advances</i> , 2015, 5, 9865-9874.	1.7	20
126	The puzzling first-order phase transition in water-glycerol mixtures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18063-18071.	1.3	47



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127	Ion transport and structural dynamics in homologous ammonium and phosphonium-based room temperature ionic liquids. <i>Journal of Chemical Physics</i> , 2015, 142, 084501.	1.2	40
128	Protein dynamics: from rattling in a cage to structural relaxation. <i>Soft Matter</i> , 2015, 11, 4984-4998.	1.2	104
129	Design of superionic polymer electrolytes. <i>Current Opinion in Chemical Engineering</i> , 2015, 7, 113-119.	3.8	46
130	Quantum effects in the dynamics of deeply supercooled water. <i>Physical Review E</i> , 2015, 91, 022312.	0.8	21
131	Untangling the Effects of Chain Rigidity on the Structure and Dynamics of Strongly Adsorbed Polymer Melts. <i>Macromolecules</i> , 2015, 48, 4207-4219.	2.2	109
132	Ion Conduction in Polymerized Ionic Liquids with Different Pendant Groups. <i>Macromolecules</i> , 2015, 48, 4461-4470.	2.2	158
133	Enzyme Induced Formation of Monodisperse Hydrogel Nanoparticles Tunable in Size. <i>Chemistry of Materials</i> , 2015, 27, 2557-2565.	3.2	10
134	Heterogeneous Nature of Relaxation Dynamics of Room-Temperature Ionic Liquids (EMIm) <sub>2</sub> [Co(NCS) <sub>4</sub> ] and (BMIm) <sub>2</sub> [Co(NCS) <sub>4</sub> ]. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20363-20368.	1.5	24
135	Protein dynamics in a broad frequency range: Dielectric spectroscopy studies. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 478-485.	1.5	63
136	Anomalously large isotope effect in the glass transition of water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17402-17407.	3.3	57
137	Resolving the Grain Boundary and Lattice Impedance of Hot-Pressed Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> Garnet Electrolytes. <i>ChemElectroChem</i> , 2014, 1, 375-378.	1.7	112
138	Macroscopic Properties of Restacked, Redox-Liquid Exfoliated Graphite and Graphite Mimics Produced in Bulk Quantities. <i>Advanced Functional Materials</i> , 2014, 24, 4969-4977.	7.8	4
139	Observation of the slow, Debye-like relaxation in hydrogen-bonded liquids by dynamic light scattering. <i>Journal of Chemical Physics</i> , 2014, 140, 104510.	1.2	35
140	Design of superionic polymers—New insights from Walden plot analysis. <i>Solid State Ionics</i> , 2014, 262, 782-784.	1.3	54
141	Carbon nanomaterial produced by microwave exfoliation of graphite oxide: new insights. <i>RSC Advances</i> , 2014, 4, 587-592.	1.7	70
142	Decoupling of ionic conductivity from structural dynamics in polymerized ionic liquids. <i>Soft Matter</i> , 2014, 10, 3536-3540.	1.2	120
143	Examination of the fundamental relation between ionic transport and segmental relaxation in polymer electrolytes. <i>Polymer</i> , 2014, 55, 4067-4076.	1.8	136
144	Dynamics at the Polymer/Nanoparticle Interface in Poly(2-vinylpyridine)/Silica Nanocomposites. <i>Macromolecules</i> , 2014, 47, 1837-1843.	2.2	248

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145	Rigidity, Secondary Structure, and the Universality of the Boson Peak in Proteins. <i>Biophysical Journal</i> , 2014, 106, 2667-2674.	0.2	66
146	Observation of highly decoupled conductivity in protic ionic conductors. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9123-9127.	1.3	37
147	Dynamics and Rigidity in an Intrinsically Disordered Protein, $\beta^2$ -Casein. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7317-7326.	1.2	44
148	Secondary structure and rigidity in model proteins. <i>Soft Matter</i> , 2013, 9, 9548.	1.2	65
149	Examination of methods to determine free-ion diffusivity and number density from analysis of electrode polarization. <i>Physical Review E</i> , 2013, 87, 042308.	0.8	84
150	Coherent Neutron Scattering and Collective Dynamics in the Protein, GFP. <i>Biophysical Journal</i> , 2013, 105, 2182-2187.	0.2	24
151	Dynamics in Protein Powders on the Nanosecond–Picosecond Time Scale Are Dominated by Localized Motions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11548-11555.	1.2	23
152	Dynamic crossover and the Debye–Stokes–Einstein relation in liquid N,N-diethyl-3-methylbenzamide (DEET). <i>Soft Matter</i> , 2013, 9, 10373.	1.2	17
153	High Pressure as a Key Factor to Identify the Conductivity Mechanism in Protic Ionic Liquids. <i>Physical Review Letters</i> , 2013, 111, 225703.	2.9	65
154	Effects of backbone rigidity on the local structure and dynamics in polymer melts and glasses. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4604.	1.3	51
155	Role of Quantum Effects in the Glass Transition. <i>Physical Review Letters</i> , 2013, 110, 065701.	2.9	42
156	Protecting TERS probes from degradation: extending mechanical and chemical stability. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 710-716.	1.2	24
157	Solvent effects on protein fast dynamics: implications for biopreservation. <i>Soft Matter</i> , 2013, 9, 5336.	1.2	26
158	Cooperativity and heterogeneity in dynamics of glass-forming systems. , 2013, , .		4
159	Chain and Segmental Dynamics of Poly(2-vinylpyridine) Nanocomposites. <i>Macromolecules</i> , 2013, 46, 4168-4173.	2.2	92
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