

Joshua R Sangoro

List of Publications by Year in descending order

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79
papers

4,715
citations

182225

30
h-index

111975

67
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83
all docs

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docs citations

83
times ranked

4705
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of microscopic heterogeneity and dynamics in choline chloride-based deep eutectic solvents. <i>Nature Communications</i> , 2022, 13, 219.	5.8	42
2	Ion dynamics in pendant and backbone polymerized ionic liquids: A view from high-pressure dielectric experiments and free-volume model. <i>Physical Review E</i> , 2022, 105, .	0.8	2
3	Interfacial Dynamics in Supported Ultrathin Polymer Filmsâ€”From the Solid to the Free Interface. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 117-125.	2.1	12
4	Deep Eutectic Solvents: A Review of Fundamentals and Applications. <i>Chemical Reviews</i> , 2021, 121, 1232-1285.	23.0	1,334
5	Localized and Collective Dynamics in Liquid-like Polyethylenimine-Based Nanoparticle Organic Hybrid Materials. <i>Macromolecules</i> , 2021, 54, 2296-2305.	2.2	14
6	Evidence of a liquidâ€”liquid transition in a glass-forming ionic liquid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
7	Solvation Dynamics of Wet Ethaline: Water is the Magic Component. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8888-8901.	1.2	32
8	Effects of Asymmetric Molecular Architecture on Chain Stretching and Dynamics in Miktoarm Star Copolymers. <i>Macromolecules</i> , 2021, 54, 183-194.	2.2	4
9	Ion Dynamics of Monomeric Ionic Liquids Polymerized <i>In Situ</i> within Silica Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44325-44334.	4.0	10
10	Isocyanate- and solvent-free synthesis of melt processible polyurea elastomers derived from urea as a monomer. <i>RSC Advances</i> , 2020, 10, 18760-18768.	1.7	17
11	Surface-Induced Ordering Depresses Through-Film Ionic Conductivity in Lamellar Block Copolymer Electrolytes. <i>ACS Macro Letters</i> , 2020, 9, 565-570.	2.3	10
12	Unusual Thermal Properties of Certain Poly(3,5-disubstituted styrene)s. <i>Macromolecules</i> , 2020, 53, 5504-5511.	2.2	2
13	Wetting and Chain Packing across Interfacial Zones Affect Distribution of Relaxations in Polymer and Polymer-Grafted Nanocomposites. <i>Macromolecules</i> , 2020, 53, 5315-5325.	2.2	26
14	Elucidating the impact of extreme nanoscale confinement on segmental and chain dynamics of unentangled poly(cis-1,4-isoprene). <i>European Physical Journal E</i> , 2019, 42, 137.	0.7	3
15	Mesoscale Organization and Dynamics in Binary Ionic Liquid Mixtures. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6274-6280.	2.1	27
16	Ion Transport in Glassy Polymerized Ionic Liquids: Unraveling the Impact of the Molecular Structure. <i>Macromolecules</i> , 2019, 52, 88-95.	2.2	31
17	Charge Transport in Imidazolium-Based Homo- and Triblock Poly(ionic liquid)s. <i>Macromolecules</i> , 2019, 52, 620-628.	2.2	13
18	Dielectric Properties of Silica-Based Nanoscale Organic-Inorganic Hybrid Materials (NOHMs). <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0

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19	Structure-Property Relationships in Prototypical Deep Eutectic Solvents. ECS Meeting Abstracts, 2019, , .	0.0	0
20	Broadband Dielectric Spectroscopy Study of the Ion Dynamics in Blends of Polymerized and Molecular Ionic Liquids. ECS Meeting Abstracts, 2019, , .	0.0	0
21	A Dielectric and Vibrational Spectroscopy Study of the Confinement Effects on Ion Dynamics in a Methacrylate Based Polymerized Ionic Liquid within Nanoporous Silica Membranes. ECS Meeting Abstracts, 2019, , .	0.0	0
22	Dynamic and structural evidence of mesoscopic aggregation in phosphonium ionic liquids. Journal of Chemical Physics, 2018, 148, 193815.	1.2	17
23	Electrical and Mechanical Properties of 3D-Printed Graphene-Reinforced Epoxy. Jom, 2018, 70, 292-297.	0.9	62
24	Experimental evidence for bipolaron condensation as a mechanism for the metal-insulator transition in rare-earth nickelates. Nature Communications, 2018, 9, 86.	5.8	40
25	Ion Transport and Interfacial Dynamics in Disordered Block Copolymers of Ammonium-Based Polymerized Ionic Liquids. Macromolecules, 2018, 51, 3477-3486.	2.2	25
26	Associating Imidazoles: Elucidating the Correlation between the Static Dielectric Permittivity and Proton Conductivity. Physical Review Letters, 2018, 120, 136001.	2.9	13
27	Natural deep eutectic solvents for lignocellulosic biomass pretreatment: Recent developments, challenges and novel opportunities. Biotechnology Advances, 2018, 36, 2032-2050.	6.0	346
28	Impact of Molecular Architecture on Dynamics of Miktoarm Star Copolymers. Macromolecules, 2018, 51, 5401-5408.	2.2	5
29	Glassy dynamics of two poly(ethylene glycol) derivatives in the bulk and in nanometric confinement as reflected in its inter- and intra-molecular interactions. Journal of Chemical Physics, 2018, 149, 064501.	1.2	17
30	Dynamic-Mechanical and Dielectric Evidence of Long-Lived Mesoscale Organization in Ionic Liquids. Journal of Physical Chemistry Letters, 2017, 8, 3544-3548.	2.1	33
31	Polymerized Ionic Liquids: Correlation of Ionic Conductivity with Nanoscale Morphology and Counterion Volume. ACS Macro Letters, 2017, 6, 941-946.	2.3	65
32	Charge transport and dipolar relaxations in phosphonium-based ionic liquids. Journal of Chemical Physics, 2017, 147, 234504.	1.2	12
33	(Invited) Ion Transport in Polymerized Ionic Liquids: Structure-Morphology-Property Relationships. ECS Meeting Abstracts, 2017, , .	0.0	0
34	Charge Transport and Dynamics of 2D-Confined Polymerized Ionic Liquids. ECS Meeting Abstracts, 2017, , .	0.0	0
35	Elucidating the Correlation between Morphology and Ion Dynamics in Polymerized Ionic Liquids. ECS Meeting Abstracts, 2017, , .	0.0	0
36	Influence of Mesoscale Organization on Charge Transport and Dynamics in Ionic Liquids. ECS Meeting Abstracts, 2017, , .	0.0	0

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37	Probing Nanoscale Ion Dynamics in Ultrathin Films of Polymerized Ionic Liquids by Broadband Dielectric Spectroscopy. ACS Macro Letters, 2016, 5, 1065-1069.	2.3	18
38	Rotational and Translational Diffusion in Ionic Liquids. Advances in Dielectrics, 2016, , 29-51.	1.2	7
39	Glassy Dynamics and Charge Transport in Polymeric Ionic Liquids. Advances in Dielectrics, 2016, , 115-129.	1.2	1
40	Rapid and Facile Formation of P3HT Organogels via Spin Coating: Tuning Functional Properties of Organic Electronic Thin Films. Advanced Functional Materials, 2015, 25, 5848-5857.	7.8	15
41	Ion transport and structural dynamics in homologous ammonium and phosphonium-based room temperature ionic liquids. Journal of Chemical Physics, 2015, 142, 084501.	1.2	40
42	Proton Transport in Imidazoles: Unraveling the Role of Supramolecular Structure. Journal of Physical Chemistry Letters, 2015, 6, 3961-3965.	2.1	21
43	Effect of Pressure on Decoupling of Ionic Conductivity from Segmental Dynamics in Polymerized Ionic Liquids. Macromolecules, 2015, 48, 8660-8666.	2.2	48
44	Ion transport and softening in a polymerized ionic liquid. Nanoscale, 2015, 7, 947-955.	2.8	18
45	Decoupling of ionic conductivity from structural dynamics in polymerized ionic liquids. Soft Matter, 2014, 10, 3536-3540.	1.2	120
46	Charge Transport and Structural Dynamics in Carboxylic-Acid-Based Deep Eutectic Mixtures. Journal of Physical Chemistry B, 2014, 118, 9378-9385.	1.2	30
47	Dynamics at the Polymer/Nanoparticle Interface in Poly(2-vinylpyridine)/Silica Nanocomposites. Macromolecules, 2014, 47, 1837-1843.	2.2	248
48	Interplay Between Hydrophobic Aggregation and Charge Transport in the Ionic Liquid Methyltrioctylammonium Bis(trifluoromethylsulfonyl)imide. Journal of Physical Chemistry B, 2014, 118, 783-790.	1.2	47
49	Charge transport and dipolar relaxations in an alkali metal oligoether carboxylate ionic liquid. Colloid and Polymer Science, 2014, 292, 1933-1938.	1.0	7
50	Rotational Diffusion of Guest Molecules Confined in Uni-directional Nanopores. Advances in Dielectrics, 2014, , 127-149.	1.2	1
51	Rotational and Translational Diffusion of Ionic Liquids in Silica Nanopores. Advances in Dielectrics, 2014, , 151-163.	1.2	0
52	Examination of methods to determine free-ion diffusivity and number density from analysis of electrode polarization. Physical Review E, 2013, 87, 042308.	0.8	84
53	The interplay between inter- and intra-molecular dynamics in a series of alkylcitrate. Soft Matter, 2013, 9, 4681.	1.2	22
54	Dynamic crossover and the Debye–Stokes–Einstein relation in liquid N,N-diethyl-3-methylbenzamide (DEET). Soft Matter, 2013, 9, 10373.	1.2	17

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55	The behavior and origin of the excess wing in DEET (N,N-diethyl-3-methylbenzamide). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9300.	1.3	6
56	Chain and Segmental Dynamics of Poly(2-vinylpyridine) Nanocomposites. <i>Macromolecules</i> , 2013, 46, 4168-4173.	2.2	92
57	Molecular Order and Dynamics of Tris(2-ethylhexyl)phosphate Confined in Uni-Directional Nanopores. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 797-805.	1.4	39
58	Brownian dynamics determine universality of charge transport in ionic liquids. <i>RSC Advances</i> , 2012, 2, 5047.	1.7	20
59	Charge Transport and Glassy Dynamics in Ionic Liquids. <i>Accounts of Chemical Research</i> , 2012, 45, 525-532.	7.6	119
60	Molecular dynamics and morphology of confined 4-heptyl-4- ϵ -isothiocyanatobiphenyl liquid crystals. <i>Soft Matter</i> , 2012, 8, 5194.	1.2	19
61	Enhanced charge transport in nano-confined ionic liquids. <i>Soft Matter</i> , 2012, 8, 289-293.	1.2	119
62	Rotational and translational diffusion in glass-forming N,N-diethyl-3-methylbenzamide (DEET). <i>Soft Matter</i> , 2011, 7, 10565.	1.2	10
63	How Hydrogen Bonds Influence the Mobility of Imidazolium-Based Ionic Liquids. A Combined Theoretical and Experimental Study of 1-butyl-3-methylimidazolium Bromide. <i>Journal of Physical Chemistry B</i> , 2011, 115, 15280-15288.	1.2	118
64	Diffusion in ionic liquids: the interplay between molecular structure and dynamics. <i>Soft Matter</i> , 2011, 7, 1678.	1.2	104
65	Secondary relaxations and electrical conductivity in hyperbranched polyester amides. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1651-1657.	2.4	33
66	Charge Transport and Dipolar Relaxations in Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 382-386.	1.2	96
67	Charge transport and diffusion of ionic liquids in nanoporous silica membranes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13798.	1.3	109
68	Correlation between polarity parameters and dielectric properties of [Na][TOTO] ϵ a sodium ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14341.	1.3	48
69	Electrical Switching in Thin Films of Nandi Flame Seed Cuticles. <i>International Journal of Polymer Science</i> , 2009, 2009, 1-10.	1.2	3
70	Charge Transport Mechanism in Thin Cuticles Holding Nandi Flame Seeds. <i>International Journal of Biomaterials</i> , 2009, 2009, 1-9.	1.1	1
71	Measurement of Forces across Room Temperature Ionic Liquids between Mica Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16445-16449.	1.5	57
72	Electrode polarization and charge transport at solid interfaces. <i>Physical Review B</i> , 2009, 80, .	1.1	233

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73	Universal scaling of charge transport in glass-forming ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 913-916.	1.3	91
74	Broadband Dielectric Spectroscopy in nano-(bio)-physics. , 2009, , .		4
75	Charge Transport and Dipolar Relaxations in Hyperbranched Polyamide Amines. <i>Macromolecules</i> , 2009, 42, 1648-1651.	2.2	53
76	Charge transport and glassy dynamics in imidazole-based liquids. <i>Journal of Chemical Physics</i> , 2008, 129, 234511.	1.2	59
77	Electrical conductivity and translational diffusion in the 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. <i>Journal of Chemical Physics</i> , 2008, 128, 214509.	1.2	115
78	Charge transport and mass transport in imidazolium-based ionic liquids. <i>Physical Review E</i> , 2008, 77, 051202.	0.8	174
79	Impacts of Bond Type and Grafting Density on the Thermal, Structural, and Transport Behaviors of Nanoparticle Organic Hybrid Materialsâ€Based Electrolytes. <i>Advanced Functional Materials</i> , 0, , 2203947.	7.8	4