Joshua R Sangoro

List of Publications by Year
in descending order

79 papers	4,715 citations	159573 30 h-index	98792 67 g-index
83 all docs	83 docs citations	83 times ranked	4141 citing authors

#	Article	IF	Citations
1	Evolution of microscopic heterogeneity and dynamics in choline chloride-based deep eutectic solvents. Nature Communications, 2022, 13, 219.	12.8	42
2	Ion dynamics in pendant and backbone polymerized ionic liquids: A view from high-pressure dielectric experiments and free-volume model. Physical Review E, 2022, 105, .	2.1	2
3	Interfacial Dynamics in Supported Ultrathin Polymer Filmsâ€"From the Solid to the Free Interface. Journal of Physical Chemistry Letters, 2021, 12, 117-125.	4.6	12
4	Deep Eutectic Solvents: A Review of Fundamentals and Applications. Chemical Reviews, 2021, 121, 1232-1285.	47.7	1,334
5	Localized and Collective Dynamics in Liquid-like Polyethylenimine-Based Nanoparticle Organic Hybrid Materials. Macromolecules, 2021, 54, 2296-2305.	4.8	14
6	Evidence of a liquidâ€"liquid transition in a glass-forming ionic liquid. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	19
7	Solvation Dynamics of Wet Ethaline: Water is the Magic Component. Journal of Physical Chemistry B, 2021, 125, 8888-8901.	2.6	32
8	Effects of Asymmetric Molecular Architecture on Chain Stretching and Dynamics in Miktoarm Star Copolymers. Macromolecules, 2021, 54, 183-194.	4.8	4
9	Ion Dynamics of Monomeric Ionic Liquids Polymerized In Situ within Silica Nanopores. ACS Applied Materials & Interfaces, 2020, 12, 44325-44334.	8.0	10
10	Isocyanate- and solvent-free synthesis of melt processible polyurea elastomers derived from urea as a monomer. RSC Advances, 2020, 10, 18760-18768.	3.6	17
11	Surface-Induced Ordering Depresses Through-Film Ionic Conductivity in Lamellar Block Copolymer Electrolytes. ACS Macro Letters, 2020, 9, 565-570.	4.8	10
12	Unusual Thermal Properties of Certain Poly(3,5-disubstituted styrene)s. Macromolecules, 2020, 53, 5504-5511.	4.8	2
13	Wetting and Chain Packing across Interfacial Zones Affect Distribution of Relaxations in Polymer and Polymer-Grafted Nanocomposites. Macromolecules, 2020, 53, 5315-5325.	4.8	26
14	Elucidating the impact of extreme nanoscale confinement on segmental and chain dynamics of unentangled poly(cis-1,4-isoprene). European Physical Journal E, 2019, 42, 137.	1.6	3
15	Mesoscale Organization and Dynamics in Binary Ionic Liquid Mixtures. Journal of Physical Chemistry Letters, 2019, 10, 6274-6280.	4.6	27
16	Ion Transport in Glassy Polymerized Ionic Liquids: Unraveling the Impact of the Molecular Structure. Macromolecules, 2019, 52, 88-95.	4.8	31
17	Charge Transport in Imidazolium-Based Homo- and Triblock Poly(ionic liquid)s. Macromolecules, 2019, 52, 620-628.	4.8	13
18	Dielectric Properties of Silica-Based Nanoscale Organic-Inorganic Hybrid Materials (NOHMs). ECS Meeting Abstracts, 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.	3.0	17
23	Electrical and Mechanical Properties of 3D-Printed Graphene-Reinforced Epoxy. Jom, 2018, 70, 292-297.	1.9	62
24	Experimental evidence for bipolaron condensation as a mechanism for the metal-insulator transition in rare-earth nickelates. Nature Communications, 2018, 9, 86.	12.8	40
25	Ion Transport and Interfacial Dynamics in Disordered Block Copolymers of Ammonium-Based Polymerized Ionic Liquids. Macromolecules, 2018, 51, 3477-3486.	4.8	25
26	Associating Imidazoles: Elucidating the Correlation between the Static Dielectric Permittivity and Proton Conductivity. Physical Review Letters, 2018, 120, 136001.	7.8	13
27	Natural deep eutectic solvents for lignocellulosic biomass pretreatment: Recent developments, challenges and novel opportunities. Biotechnology Advances, 2018, 36, 2032-2050.	11.7	346
28	Impact of Molecular Architecture on Dynamics of Miktoarm Star Copolymers. Macromolecules, 2018, 51, 5401-5408.	4.8	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.	3.0	17
30	Dynamic-Mechanical and Dielectric Evidence of Long-Lived Mesoscale Organization in Ionic Liquids. Journal of Physical Chemistry Letters, 2017, 8, 3544-3548.	4.6	33
31	Polymerized Ionic Liquids: Correlation of Ionic Conductivity with Nanoscale Morphology and Counterion Volume. ACS Macro Letters, 2017, 6, 941-946.	4.8	65
32	Charge transport and dipolar relaxations in phosphonium-based ionic liquids. Journal of Chemical Physics, 2017, 147, 234504.	3.0	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.	4.8	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.	14.9	15
41	Ion transport and structural dynamics in homologous ammonium and phosphonium-based room temperature ionic liquids. Journal of Chemical Physics, 2015, 142, 084501.	3.0	40
42	Proton Transport in Imidazoles: Unraveling the Role of Supramolecular Structure. Journal of Physical Chemistry Letters, 2015, 6, 3961-3965.	4.6	21
43	Effect of Pressure on Decoupling of Ionic Conductivity from Segmental Dynamics in Polymerized Ionic Liquids. Macromolecules, 2015, 48, 8660-8666.	4.8	48
44	Ion transport and softening in a polymerized ionic liquid. Nanoscale, 2015, 7, 947-955.	5.6	18
45	Decoupling of ionic conductivity from structural dynamics in polymerized ionic liquids. Soft Matter, 2014, 10, 3536-3540.	2.7	120
46	Charge Transport and Structural Dynamics in Carboxylic-Acid-Based Deep Eutectic Mixtures. Journal of Physical Chemistry B, 2014, 118, 9378-9385.	2.6	30
47	Dynamics at the Polymer/Nanoparticle Interface in Poly(2-vinylpyridine)/Silica Nanocomposites. Macromolecules, 2014, 47, 1837-1843.	4.8	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.	2.6	47
49	Charge transport and dipolar relaxations in an alkali metal oligoether carboxylate ionic liquid. Colloid and Polymer Science, 2014, 292, 1933-1938.	2.1	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.	2.1	84
53	The interplay between inter- and intra-molecular dynamics in a series of alkylcitrates. Soft Matter, 2013, 9, 4681.	2.7	22
54	Dynamic crossover and the Debyeâ€“Stokesâ€“Einstein relation in liquid N,N-diethyl-3-methylbenzamide (DEET). Soft Matter, 2013, 9, 10373.	2.7	17

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55	The behavior and origin of the excess wing in DEET (N,N-diethyl-3-methylbenzamide). Physical Chemistry Chemical Physics, 2013, 15, 9300.	2.8	6
56	Chain and Segmental Dynamics of Poly(2-vinylpyridine) Nanocomposites. Macromolecules, 2013, 46, 4168-4173.	4.8	92
57	Molecular Order and Dynamics of Tris(2-ethylhexyl)phosphate Confined in Uni-Directional Nanopores. Zeitschrift Fur Physikalische Chemie, 2012, 226, 797-805.	2.8	39
58	Brownian dynamics determine universality of charge transport in ionic liquids. RSC Advances, 2012, 2, 5047.	3.6	20
59	Charge Transport and Glassy Dynamics in Ionic Liquids. Accounts of Chemical Research, 2012, 45, 525-532.	15.6	119
60	Molecular dynamics and morphology of confined 4-heptyl-4â€²-isothiocyanatobiphenyl liquid crystals. Soft Matter, 2012, 8, 5194.	2.7	19
61	Enhanced charge transport in nano-confined ionic liquids. Soft Matter, 2012, 8, 289-293.	2.7	119
62	Rotational and translational diffusion in glass-forming N,N,-diethyl-3-methylbenzamide (DEET). Soft Matter, 2011, 7, 10565.	2.7	10
63	How Hydrogen Bonds Influence the Mobility of Imidazolium-Based Ionic Liquids. A Combined Theoretical and Experimental Study of 1-n-Butyl-3-methylimidazolium Bromide. Journal of Physical Chemistry B, 2011, 115, 15280-15288.	2.6	118
64	Diffusion in ionic liquids: the interplay between molecular structure and dynamics. Soft Matter, 2011, 7, 1678.	2.7	104
65	Secondary relaxations and electrical conductivity in hyperbranched polyester amides. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1651-1657.	2.1	33
66	Charge Transport and Dipolar Relaxations in Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry B, 2010, 114, 382-386.	2.6	96
67	Charge transport and diffusion of ionic liquids in nanoporous silica membranes. Physical Chemistry Chemical Physics, 2010, 12, 13798.	2.8	109
68	Correlation between polarity parameters and dielectric properties of [Na][TOTO]â€”a sodium ionic liquid. Physical Chemistry Chemical Physics, 2010, 12, 14341.	2.8	48
69	Electrical Switching in Thin Films of Nandi Flame Seed Cuticles. International Journal of Polymer Science, 2009, 2009, 1-10.	2.7	3
70	Charge Transport Mechanism in Thin Cuticles Holding Nandi Flame Seeds. International Journal of Biomaterials, 2009, 2009, 1-9.	2.4	1
71	Measurement of Forces across Room Temperature Ionic Liquids between Mica Surfaces. Journal of Physical Chemistry C, 2009, 113, 16445-16449.	3.1	57
72	Electrode polarization and charge transport at solid interfaces. Physical Review B, 2009, 80, .	3.2	233

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73	Universal scaling of charge transport in glass-forming ionic liquids. Physical Chemistry Chemical Physics, 2009, 11, 913-916.	2.8	91
74	Broadband Dielectric Spectroscopy in nano-(bio)-physics. , 2009, , .		4
75	Charge Transport and Dipolar Relaxations in Hyperbranched Polyamide Amines. Macromolecules, 2009, 42, 1648-1651.	4.8	53
76	Charge transport and glassy dynamics in imidazole-based liquids. Journal of Chemical Physics, 2008, 129, 234511.	3.0	59
77	Electrical conductivity and translational diffusion in the 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. Journal of Chemical Physics, 2008, 128, 214509.	3.0	115
78	Charge transport and mass transport in imidazolium-based ionic liquids. Physical Review E, 2008, 77, 051202.	2.1	174
79	Impacts of Bond Type and Grafting Density on the Thermal, Structural, and Transport Behaviors of Nanoparticle Organic Hybrid Materialsâ€Based Electrolytes. Advanced Functional Materials, 0, , 2203947.	14.9	4