

Faiz Ullah Shah

List of Publications by Year in Descending Order

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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.

62
papers

1,076
citations

18
h-index

31
g-index

67
ext. papers

1,315
ext. citations

5
avg. IF

4.83
L-index

#	Paper	IF	Citations
62	Detailing molecular interactions of ionic liquids with charged SiO ₂ surfaces: A systematic AFM study. <i>Journal of Molecular Liquids</i> , 2022 , 350, 118506	6	0
61	Effect of structural variation in biomass-derived nonfluorinated ionic liquids electrolytes on the performance of supercapacitors. <i>Journal of Energy Chemistry</i> , 2022 , 69, 174-184	12	1
60	Two structural types of dithiocarbamate-chlorido complexes of mercury(II): Preparation, supramolecular self-assembly, solid-state ¹³ C and ¹⁵ N NMR characterisation and thermal behaviour of pseudo-polymeric compounds of [Hg ₂ (S ₂ CNBu ₂) ₂ Cl ₂] and [Hg ₄ (S ₂ CNiBu ₂) ₆][Hg ₂ Cl ₆]. <i>Inorganic Chimica Acta</i> , 2022 , 533, 100764	2.7	
59	Molecular interactions of ionic liquids with SiO surfaces determined from colloid probe atomic force microscopy.. <i>Physical Chemistry Chemical Physics</i> , 2022 ,	3.6	1
58	Zinc-Coordination Polymer-Derived Porous Carbon-Supported Stable PtM Electrocatalysts for Methanol Oxidation Reaction. <i>ACS Omega</i> , 2021 , 6, 6780-6790	3.9	1
57	Ion Transport and Electrochemical Properties of Fluorine-Free Lithium-Ion Battery Electrolytes Derived from Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7769-7780	8.3	4
56	Transition anionic complex in trihexyl(tetradecyl)phosphonium-bis(oxalato)borate ionic liquid - revisited. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 6190-6203	3.6	3
55	Translational and Reorientational Dynamics of Ionic Liquid-Based Fluorine-Free Lithium-Ion Battery Electrolytes. <i>Journal of Molecular Liquids</i> , 2021 , 117001	6	1
54	Oriented Carbon Fiber Networks by Design from Renewables for Electrochemical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 12142-12154	8.3	1
53	Unusual ion transport behaviour of ethylammonium nitrate mixed with lithium nitrate. <i>Journal of Molecular Liquids</i> , 2021 , 340, 116841	6	2
52	The effect of anion architecture on the lubrication chemistry of phosphonium orthoborate ionic liquids.. <i>Scientific Reports</i> , 2021 , 11, 24021	4.9	1
51	Effect of Aromaticity in Anion on the Cation-Anion Interactions and Ionic Mobility in Fluorine-Free Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 11962-11973	3.4	4
50	Fluorine-Free Ionic Liquid-Based Electrolyte for Supercapacitors Operating at Elevated Temperatures. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 10212-10221	8.3	8
49	Diffusion of Ions in Phosphonium Orthoborate Ionic Liquids Studied by H and B Pulsed Field Gradient NMR. <i>Frontiers in Chemistry</i> , 2020 , 8, 119	5	0
48	Controlling the nanoscale friction by layered ionic liquid films. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14941-14952	3.6	4
47	Comparing the Thermal and Electrochemical Stabilities of Two Structurally Similar Ionic Liquids. <i>Molecules</i> , 2020 , 25,	4.8	5
46	Biferrocenyl Schiff bases as efficient corrosion inhibitors for an aluminium alloy in HCl solution: a combined experimental and theoretical study.. <i>RSC Advances</i> , 2020 , 10, 7585-7599	3.7	15

45	One-Pot Deconstruction and Conversion of Lignocellulose Into Reducing Sugars by Pyridinium-Based Ionic Liquid-Metal Salt System. <i>Frontiers in Chemistry</i> , 2020 , 8, 236	5	13
44	The effect of nanoscale friction of mesoporous carbon supported ionic liquids on the mass transfer of CO adsorption. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 1097-1106	3.6	8
43	Poly-thiourea formaldehyde based anticorrosion marine coatings on type 304 stainless steel. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 2146-2153	5.5	7
42	Understanding the Interaction of Boric Acid and CO ₂ with Ionic Liquids in Aqueous Medium by Multinuclear NMR Spectroscopy. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 552-560	8.3	4
41	Engineering electroactive and biocompatible tetra(aniline)-based terpolymers with tunable intrinsic antioxidant properties in vivo. <i>Materials Science and Engineering C</i> , 2020 , 108, 110456	8.3	5
40	Structural and Ion Dynamics in Fluorine-Free Oligoether Carboxylate Ionic Liquid-Based Electrolytes. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 9690-9700	3.4	5
39	Synthesis, Crystal Structures, and Spectroscopic Characterization of Bis-aldehyde Monomers and Their Electrically Conductive Pristine Polyazomethines. <i>Polymers</i> , 2019 , 11,	4.5	4
38	Tunable Self-Assembled Nanostructures of Electroactive PEGylated Tetra(Aniline) Based ABA Triblock Structures in Aqueous Medium. <i>Frontiers in Chemistry</i> , 2019 , 7, 518	5	4
37	Reactivity of CO ₂ with aqueous choline-based ionic liquids probed by solid-state NMR spectroscopy. <i>Journal of Molecular Liquids</i> , 2019 , 286, 110918	6	6
36	Rapid carbene formation increases ion diffusivity in an imidazolium acetate ionic liquid confined between polar glass plates. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22531-22538	3.6	12
35	On the ionic liquid films pinned by core-shell structured FeO@carbon nanoparticles and their tribological properties. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26387-26398	3.6	0
34	Experimental and theoretical insights into the corrosion inhibition activity of novel Schiff bases for aluminum alloy in acidic medium.. <i>RSC Advances</i> , 2019 , 9, 36455-36470	3.7	4
33	CO ₂ absorption and ion mobility in aqueous choline-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2019 , 276, 748-752	6	12
32	Friction of Ionic Liquid-Glycol Ether Mixtures at Titanium Interfaces: Negative Load Dependence. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800263	4.6	15
31	Efficient conversion of lignocellulosic biomass to levulinic acid using acidic ionic liquids. <i>Carbohydrate Polymers</i> , 2018 , 181, 208-214	10.3	92
30	Interfacial Behavior of Orthoborate Ionic Liquids at Inorganic Oxide Surfaces Probed by NMR, IR, and Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19687-19698	3.8	15
29	Material Characterization and Influence of Sliding Speed and Pressure on Friction and Wear Behavior of Self-Lubricating Bearing Materials for Hydropower Applications. <i>Lubricants</i> , 2018 , 6, 39	3.1	8
28	Dynamic properties of imidazolium orthoborate ionic liquids mixed with polyethylene glycol studied by NMR diffusometry and impedance spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2018 , 56, 113-119	2.1	12

27	Thermal stability of choline based amino acid ionic liquids. <i>Journal of Molecular Liquids</i> , 2018 , 266, 597-602	21
26	Plasticizing and crosslinking effects of borate additives on the structure and properties of poly(vinyl acetate). <i>RSC Advances</i> , 2017 , 7, 7483-7491	3.7 17
25	Pharmaceutical Crystal Engineering Using Ionic Liquid Anion-Solute Interactions. <i>Crystal Growth and Design</i> , 2017 , 17, 1729-1734	3.5 13
24	Ion dynamics in halogen-free phosphonium bis(salicylato)borate ionic liquid electrolytes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16721-16730	3.6 21
23	Structure and dynamics elucidation of ionic liquids using multidimensional Laplace NMR. <i>Chemical Communications</i> , 2017 , 53, 11056-11059	5.8 14
22	Transport and Association of Ions in Lithium Battery Electrolytes Based on Glycol Ether Mixed with Halogen-Free Orthoborate Ionic Liquid. <i>Scientific Reports</i> , 2017 , 7, 16340	4.9 24
21	High CO absorption capacity by chemisorption at cations and anions in choline-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31216-31226	3.6 22
20	Ether Functionalized Choline Tethered Amino Acid Ionic Liquids for Enhanced CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5441-5449	8.3 52
19	High flux acetate functionalized silica membranes based on in-situ co-condensation for CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2016 , 520, 574-582	9.6 15
18	Insights into the effect of CO absorption on the ionic mobility of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28617-28625	3.6 16
17	Solid-state C, N and Si NMR characterization of block copolymers with CO capture properties. <i>Magnetic Resonance in Chemistry</i> , 2016 , 54, 734-739	2.1 6
16	Self-diffusion of phosphonium Bis(Salicylato)Borate ionic liquid in pores of Vycor porous glass. <i>Microporous and Mesoporous Materials</i> , 2016 , 230, 128-134	5.3 20
15	Self-diffusion and interactions in mixtures of imidazolium bis(mandelato)borate ionic liquids with polyethylene glycol: (1) H NMR study. <i>Magnetic Resonance in Chemistry</i> , 2015 , 53, 493-7	2.1 12
14	Halogen-free pyrrolidinium bis(mandelato)borate ionic liquids: some physicochemical properties and lubrication performance as additives to polyethylene glycol. <i>RSC Advances</i> , 2014 , 4, 30617-30623	3.7 43
13	Atomistic insight into orthoborate-based ionic liquids: force field development and evaluation. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 8711-23	3.4 43
12	The effect of the cation alkyl chain length on density and diffusion in dialkylpyrrolidinium bis(mandelato)borate ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26798-805	3.6 20
11	Boron in Tribology: From Borates to Ionic Liquids. <i>Tribology Letters</i> , 2013 , 51, 281-301	2.8 117
10	NMR self-diffusion study of a phosphonium bis(mandelato)borate ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9281-7	3.6 24

9	Novel AlkylborateDithiocarbamate Lubricant Additives: Synthesis and Tribophysical Characterization. <i>Tribology Letters</i> , 2012 , 45, 67-78	2.8	28
8	Halogen-free chelated orthoborate ionic liquids and organic ionic plastic crystals. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6928		31
7	Novel halogen-free chelated orthoborate-phosphonium ionic liquids: synthesis and tribophysical properties. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12865-73	3.6	116
6	Interfacial antiwear and physicochemical properties of alkylborate-dithiophosphates. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 956-68	9.5	44
5	Synthesis, physicochemical, and tribological characterization of S-Di-n-octoxyboron-O,OVDi-n-octyldithiophosphate. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2833-42	8.5	36
4	Determination of heterocyclic aromatic amines in human urine by using hollow-fibre supported liquid membrane extraction and liquid chromatography-ultraviolet detection system. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008 , 870, 203-8	3.2	36
3	Synthesis, structure and characterization of some Schiff bases bearing phenylferrocene. <i>Applied Organometallic Chemistry</i> , 2007 , 21, 758-762	3.1	4
2	Probing the nanofriction of non-halogenated phosphonium-based ionic liquid additives in glycol ether oil on titanium surface. <i>Friction</i> , 1	5.6	0
1	Ionic liquids on uncharged and charged surfaces: In situ microstructures and nanofriction. <i>Friction</i> , 1	5.6	0