

Paul Nancarrow

List of Publications by Year in descending order

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52
papers

3,004
citations

236612

25
h-index

168136

53
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all docs

53
docs citations

53
times ranked

3511
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO nanofluids: Green synthesis, characterization, and antibacterial activity. <i>Materials Chemistry and Physics</i> , 2010, 121, 198-201.	2.0	318
2	Fabrication of cerium oxide nanoparticles: Characterization and optical properties. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 473-480.	5.0	277
3	Prediction of Ionic Liquid Properties. I. Volumetric Properties as a Function of Temperature at 0.1 MPa. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 716-726.	1.0	233
4	Heat Capacities of Ionic Liquids as a Function of Temperature at 0.1 MPa. Measurement and Prediction. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2148-2153.	1.0	173
5	Thermal Conductivities of Ionic Liquids over the Temperature Range from 293 K to 353 K. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 1819-1823.	1.0	167
6	Prediction of Ionic Liquid Properties. II. Volumetric Properties as a Function of Temperature and Pressure. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2133-2143.	1.0	139
7	Preparation, characterization, and rheological properties of graphene-glycerol nanofluids. <i>Chemical Engineering Journal</i> , 2013, 231, 365-372.	6.6	127
8	Bio-Based Alternatives to Phenol and Formaldehyde for the Production of Resins. <i>Polymers</i> , 2020, 12, 2237.	2.0	111
9	Ultrasound-assisted green synthesis of nanocrystalline ZnO in the ionic liquid [hmim][NTf ₂]. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 120-123.	3.8	107
10	Composite ionic liquid and polymer membranes for gas separation at elevated temperatures. <i>Journal of Membrane Science</i> , 2014, 450, 407-417.	4.1	103
11	The Importance of Acetonitrile in the Pharmaceutical Industry and Opportunities for its Recovery from Waste. <i>Organic Process Research and Development</i> , 2012, 16, 612-624.	1.3	101
12	Direct hydrocarbon fuel cells: A promising technology for improving energy efficiency. <i>Energy</i> , 2019, 172, 207-219.	4.5	98
13	Rheological and heat transfer behaviour of the ionic liquid, [C ₄ mim][NTf ₂]. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 149-155.	1.1	72
14	Novel composite membrane based on zirconium phosphate-ionic liquids for high temperature PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6100-6109.	3.8	67
15	Enhanced proton conduction in zirconium phosphate/ionic liquids materials for high-temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4857-4869.	3.8	67
16	A catalytic and mechanistic study of the Friedel-Crafts benzylation of anisole using zeolites in ionic liquids. <i>Journal of Catalysis</i> , 2004, 227, 44-52.	3.1	61
17	Fast pyrolysis of date palm (<i>Phoenix dactylifera</i>) waste in a bubbling fluidized bed reactor. <i>Renewable Energy</i> , 2019, 143, 719-730.	4.3	61
18	Sonochemical synthesis and measurement of optical properties of zinc sulfide quantum dots. <i>Chemical Engineering Journal</i> , 2012, 209, 113-117.	6.6	58

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19	Theoretical and experimental correlations of gas dissolution, diffusion, and thermodynamic properties in determination of gas permeability and selectivity in supported ionic liquid membranes. <i>Advances in Colloid and Interface Science</i> , 2011, 164, 45-55.	7.0	56
20	Ionic liquids and deep eutectic solvents for the recovery of phenolic compounds: effect of ionic liquids structure and process parameters. <i>RSC Advances</i> , 2021, 11, 12398-12422.	1.7	53
21	Ionic Liquids in Space Technology – Current and Future Trends. <i>ChemBioEng Reviews</i> , 2017, 4, 106-119.	2.6	50
22	COSMO-RS based screening of ionic liquids for extraction of phenolic compounds from aqueous media. <i>Journal of Molecular Liquids</i> , 2021, 328, 115387.	2.3	41
23	Synthesis, characterization, and measurement of structural, optical, and photoluminescent properties of zinc sulfide quantum dots. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 356-362.	1.9	40
24	Green synthesis of ZnO nanoparticles in a room-temperature ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2057-2060.	1.9	35
25	Group Contribution Methods for Estimation of Ionic Liquid Heat Capacities: Critical Evaluation and Extension. <i>Chemical Engineering and Technology</i> , 2015, 38, 632-644.	0.9	27
26	Structural, electrical, and rheological properties of palladium/silver bimetallic nanoparticles prepared by conventional and ultrasonic-assisted reduction methods. <i>Advanced Powder Technology</i> , 2014, 25, 801-810.	2.0	26
27	Kinetic Study of the Metal Triflate Catalyzed Benzoylation of Anisole in an Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 6640-6647.	1.8	25
28	Rheological properties of the nanofluids of tungsten oxide nanoparticles in ethylene glycol and glycerol. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 1191-1202.	1.0	25
29	Comprehensive analysis and correlation of ionic liquid conductivity data for energy applications. <i>Energy</i> , 2021, 220, 119761.	4.5	23
30	Preparation, structural characterization, semiconductor and photoluminescent properties of zinc oxide nanoparticles in a phosphonium-based ionic liquid. <i>Materials Science in Semiconductor Processing</i> , 2011, 14, 69-72.	1.9	22
31	Technical Evaluation of Ionic Liquid-Extractive Processing of Ultra Low Sulfur Diesel Fuel. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10843-10853.	1.8	20
32	Thermal Conductivities of Choline Chloride-Based Deep Eutectic Solvents and Their Mixtures with Water: Measurement and Estimation. <i>Molecules</i> , 2020, 25, 3816.	1.7	20
33	Preparation of sustainable activated carbon-alginate beads impregnated with ionic liquid for phenol decontamination. <i>Journal of Cleaner Production</i> , 2021, 321, 128899.	4.6	20
34	Friedel-Crafts Benzoylation of Anisole in Ionic Liquids: Catalysis, Separation, and Recycle Studies. <i>Organic Process Research and Development</i> , 2008, 12, 1156-1163.	1.3	19
35	Successful degradation of Reactive Black 5 by engineered Fe/Pd nanoparticles: Mechanism and kinetics aspects. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 406-417.	2.7	18
36	Ionic liquid-assisted refinery processes – A review and industrial perspective. <i>Fuel</i> , 2021, 302, 121195.	3.4	17

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37	Role of cation and alkyl chain length on the extraction of phenol from aqueous solution using NTF2-based ionic liquids: Experimental and computational analysis. <i>Journal of Molecular Liquids</i> , 2021, 326, 115305.	2.3	15
38	Spent caustic treatment using hydrophobic room temperatures ionic liquids. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 325-333.	2.9	12
39	Zirconium silicate-ionic liquid membranes for high-temperature hydrogen PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2024, 52, 894-908.	3.8	12
40	Ionic Liquid Melting Points: Structure–Property Analysis and New Hybrid Group Contribution Model. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 4683-4706.	1.8	11
41	Group Contribution Estimation of Ionic Liquid Melting Points: Critical Evaluation and Refinement of Existing Models. <i>Molecules</i> , 2021, 26, 2454.	1.7	10
42	Progress in Bio-Based Phenolic Foams: Synthesis, Properties, and Applications. <i>ChemBioEng Reviews</i> , 2021, 8, 612-632.	2.6	10
43	Synthesis and characterization of clay-based adsorbents modified with alginate, surfactants, and nanoparticles for methylene blue removal. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 17, 100644.	1.7	9
44	Composite ionic liquid–polymer–catalyst membranes for reactive separation of hydrogen from carbon monoxide. <i>Journal of Membrane Science</i> , 2014, 472, 222-231.	4.1	8
45	Application of protic ammonium-based ionic liquids with carboxylate anions for phenol extraction from aqueous solution and their cytotoxicity on human cells. <i>Journal of Molecular Liquids</i> , 2021, 342, 117447.	2.3	8
46	Ionic Liquid Agar–Alginate Beads as a Sustainable Phenol Adsorbent. <i>Polymers</i> , 2022, 14, 984.	2.0	8
47	Vibrational assignments, conformational analysis, and molecular structures of $\left[\text{C}_{n}\text{mim} \right] \left[\text{NTF}_2 \right]$ ($n=2, 4, 6$). <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 1281-1300.	1.2	6
48	Sustainable management of cut flowers waste by activation and its application in wastewater treatment technology. <i>Environmental Science and Pollution Research</i> , 2021, 28, 31803-31813.	2.7	3
49	Amine-Based Deep Eutectic Solvents for Alizarin Extraction from Aqueous Media. <i>Processes</i> , 2022, 10, 794.	1.3	3
50	Facile and green synthesis of ZnO nanostructures in a room-temperature ionic liquid 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Inorganic Materials</i> , 2011, 47, 379-384.	0.2	2
51	A Study on Permeabilities and Selectivities of Small-Molecule Gases for Composite Ionic Liquid and Polymer Membranes. <i>Applied Mechanics and Materials</i> , 2013, 448-453, 765-770.	0.2	2
52	Ultrasound and ionic liquid-enhanced extractive desulfurization of diesel. <i>MATEC Web of Conferences</i> , 2018, 171, 03003.	0.1	2