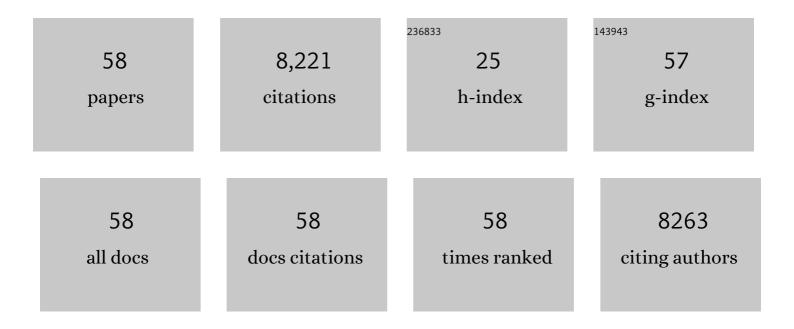
James H Davis

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2190290/publications.pdf Version: 2024-02-01



IAMES H DAVIS

#	Article	IF	CITATIONS
1	CO2 Capture by a Task-Specific Ionic Liquid. Journal of the American Chemical Society, 2002, 124, 926-927.	6.6	2,065
2	Energy applications of ionic liquids. Energy and Environmental Science, 2014, 7, 232-250.	15.6	1,455
3	Novel BrÃ,nsted Acidic Ionic Liquids and Their Use as Dual Solventâ^'Catalysts. Journal of the American Chemical Society, 2002, 124, 5962-5963.	6.6	1,144
4	Task-Specific Ionic Liquids. Chemistry Letters, 2004, 33, 1072-1077.	0.7	983
5	The third evolution of ionic liquids: active pharmaceutical ingredients. New Journal of Chemistry, 2007, 31, 1429.	1.4	766
6	From curiosities to commodities: ionic liquids begin the transition. Chemical Communications, 2003, , 1209-1212.	2.2	207
7	Reversible CO2Capture by Unexpected Plastic-, Resin-, and Gel-like Ionic Soft Materials Discovered during the Combi-Click Generation of a TSIL Library. Chemistry of Materials, 2007, 19, 3581-3583.	3.2	151
8	Sweet success: ionic liquids derived from non-nutritive sweetenersElectronic supplementary information (ESI) available: experimental details; IR spectra. See http://www.rsc.org/suppdata/cc/b3/b313068a/. Chemical Communications, 2004, , 630.	2.2	147
9	Novel organic ionic liquids (OILs) incorporating cations derived from the antifungal drug miconazole. Tetrahedron Letters, 1998, 39, 8955-8958.	0.7	113
10	Simultaneous membrane transport of two active pharmaceutical ingredients by charge assisted hydrogen bond complex formation. Chemical Science, 2014, 5, 3449.	3.7	106
11	Ionic liquids of superior thermal stability. Chemical Communications, 2013, 49, 7590.	2.2	93
12	Impact of water on CO2 capture by amino acid ionic liquids. Environmental Chemistry Letters, 2014, 12, 201-208.	8.3	81
13	Supported Ionic Liquid Membranes and Facilitated Ionic Liquid Membranes. ACS Symposium Series, 2002, , 69-87.	0.5	80
14	The Fluidâ€Mosaic Model, Homeoviscous Adaptation, and Ionic Liquids: Dramatic Lowering of the Melting Point by Sideâ€Chain Unsaturation. Angewandte Chemie - International Edition, 2010, 49, 2755-2758.	7.2	76
15	Structure and dynamics of the drug-bound bacterial transporter EmrE in lipid bilayers. Nature Communications, 2021, 12, 172.	5.8	40
16	Exploiting isolobal relationships to create new ionic liquids: novel room-temperature ionic liquids based upon (N-alkylimidazole)(amine)BH2+"boronium―ions. Chemical Communications, 2005, , 3679.	2.2	39
17	Enhanced stabilization of the Tobacco mosaic virus using protic ionic liquids. Physical Chemistry Chemical Physics, 2012, 14, 10119.	1.3	39
18	Stable Cycling of Lithium Batteries Using Novel Boronium-Cation-Based Ionic Liquid Electrolytes. Chemistry of Materials, 2010, 22, 1038-1045.	3.2	38

JAMES H DAVIS

#	Article	IF	CITATIONS
19	Building a bridge between aprotic and protic ionic liquids. RSC Advances, 2013, 3, 337-340.	1.7	38
20	Tuning the melting point of selected ionic liquids through adjustment of the cation's dipole moment. Physical Chemistry Chemical Physics, 2020, 22, 12301-12311.	1.3	36
21	Making good on a promise: ionic liquids with genuinely high degrees of thermal stability. Chemical Communications, 2018, 54, 5019-5031.	2.2	35
22	Synthesis of New Lipidâ€Inspired Ionic Liquids by Thiolâ€ene Chemistry: Profound Solvent Effect on Reaction Pathway. Chemistry - A European Journal, 2014, 20, 7576-7580.	1.7	33
23	Do ion tethered functional groups affect IL solvent properties? The case of sulfoxides and sulfones. Chemical Communications, 2006, , 646.	2.2	32
24	Lipidic ionic liquid stationary phases for the separation of aliphatic hydrocarbons by comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2017, 1481, 127-136.	1.8	26
25	Ethane and Ethylene Solubility in an Imidazolium-Based Lipidic Ionic Liquid. Industrial & Engineering Chemistry Research, 2015, 54, 5165-5171.	1.8	25
26	Thermally stable bis(trifluoromethylsulfonyl)imide salts and their mixtures. New Journal of Chemistry, 2016, 40, 7157-7161.	1.4	25
27	Thermally robust: triarylsulfonium ionic liquids stable in air for 90 days at 300 °C. RSC Advances, 2017, 7, 7623-7630.	1.7	23
28	Synthesis and thermophysical properties of ionic liquids: cyclopropyl moieties versus olefins as Tm-reducing elements in lipid-inspired ionic liquids. Tetrahedron Letters, 2013, 54, 12-14.	0.7	22
29	Functionalized ionic liquids with highly polar polyhydroxylated appendages and their rapid synthesis via thiol-ene click chemistry. Tetrahedron Letters, 2011, 52, 5173-5175.	0.7	21
30	The Effect of the Sulfur Position on the Melting Points of Lipidic 1-Methyl-3-Thiaalkylimidazolium Ionic Liquids. Journal of Physical Chemistry B, 2014, 118, 10232-10239.	1.2	21
31	Ultra-high thermal stability perarylated ionic liquids as gas chromatographic stationary phases for the selective separation of polyaromatic hydrocarbons and polychlorinated biphenyls. Journal of Chromatography A, 2019, 1604, 460466.	1.8	20
32	The effect of structural modifications on the thermal stability, melting points and ion interactions for a series of tetraaryl-phosphonium-based mesothermal ionic liquids. Physical Chemistry Chemical Physics, 2017, 19, 31560-31571.	1.3	19
33	Working Salts: Syntheses and Uses of Ionic Liquids Containing Functionalized Ions. ACS Symposium Series, 2002, , 247-258.	0.5	18
34	An evaluation of anion suitability for use in ionic liquids with long-term, high-temperature thermal stability. New Journal of Chemistry, 2017, 41, 7844-7848.	1.4	17
35	Azolidene Carbenes Derived from Biologically Relevant Molecules.1Synthesis and Characterization of Iridium Complexes of Imidazolidene Ligands Based upon the Antifungal Drugs Econazole and Miconazole. Inorganic Chemistry, 1998, 37, 5412-5413.	1.9	15
36	Task-Specific Ionic Liquids for Separations of Petrochemical Relevance: Reactive Capture of CO ₂ Using Amine-Incorporating Ions. ACS Symposium Series, 2005, , 49-56.	0.5	15

JAMES H DAVIS

#	Article	IF	CITATIONS
37	Synthesis, thermal stability, and computed bond dissociation energies of tetraarylphosphonium-based mesothermal ionic liquids bearing a quinoline ring system. Tetrahedron Letters, 2017, 58, 4628-4631.	0.7	14
38	Solubility of CO ₂ and N ₂ O in an Imidazolium-Based Lipidic Ionic Liquid. Journal of Physical Chemistry B, 2016, 120, 10524-10530.	1.2	13
39	Structure-based tuning of Tm in lipid-like ionic liquids. Insights from Tf2Nâ^' salts of gene transfection agents. Chemical Communications, 2012, 48, 7522.	2.2	12
40	Click chemistry mediated synthesis of bio-inspired phosphonyl-functionalized ionic liquids. Green Chemistry, 2015, 17, 1259-1268.	4.6	12
41	Novel boronium salt exhibits substantial antibacterial activity when compared to a commercial quaternary ammonium disinfectant. Bioorganic and Medicinal Chemistry Letters, 2021, 36, 127808.	1.0	12
42	Lipid-Inspired Ionic Liquids Containing Long-Chain Appendages: Novel Class of Biomaterials with Attractive Properties and Applications. ACS Symposium Series, 2012, , 199-216.	0.5	11
43	A simple and rapid route to novel tetra(4-thiaalkyl)ammonium bromides. RSC Advances, 2013, 3, 24612.	1.7	11
44	Thioether-functionalized picolinium ionic liquids: synthesis, physical properties and computational studies. New Journal of Chemistry, 2017, 41, 1625-1630.	1.4	11
45	A new building block for electroactive organic materials? Synthesis, cyclic voltammetry, single crystal X-ray structure, and DFT treatment of a unique boron-based viologen. Chemical Communications, 2011, 47, 9072.	2.2	9
46	Liquid–liquid equilibria of binary mixtures of a lipidic ionic liquid with hydrocarbons. Physical Chemistry Chemical Physics, 2016, 18, 2459-2467.	1.3	6
47	Acoustic levitation and infrared thermography: a sound approach to studying droplet evaporation. Chemical Communications, 2020, 56, 4224-4227.	2.2	6
48	From curiosities to commodities: ionic liquids begin the transition. Chemical Communications, 2003, , 1209-12.	2.2	6
49	Unusual Boronium Salt Shows Antifungal Activity Comparable to a Commercial Quaternary Ammonium Disinfectant. ChemistrySelect, 2022, 7, .	0.7	6
50	Degradation of Chitin Utilizing Acid Functionalized Ionic Liquids Technology. ACS Symposium Series, 2012, , 189-198.	0.5	5
51	Multi-ion ionic liquids and a direct, reproducible, diversity-oriented way to make them. Chemical Communications, 2015, 51, 15914-15916.	2.2	5
52	A co-crystal of 1,10-phenanthroline with boric acid: a novel aza-aromatic complex. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1067-o1068.	0.2	3
53	Synthesis and Properties ofÂLipid-Inspired Ionic Liquids. , 2016, , 205-223.		3
54	Unorthodox crystalline drug salts <i>via</i> the reaction of amine-containing drugs with CO ₂ . Chemical Communications, 2019, 55, 13546-13549.	2.2	3

JAMES H DAVIS

#	Article	IF	CITATIONS
55	lonic liquids of superior thermal stability. Validation of PPh ₄ ⁺ as an organic cation of impressive thermodynamic durability. RSC Advances, 2020, 10, 20521-20528.	1.7	3
56	Commercially Available Salts as Building Blocks for New Ionic Liquids. ACS Symposium Series, 2003, , 100-107.	0.5	2
57	Fusion and Thermal Degradation Behavior of Symmetric Sulfur-Containing Quaternary Ammonium Bromides. Journal of Physical Chemistry B, 2016, 120, 1330-1335.	1.2	2
58	Understanding liquid–liquid equilibria in binary mixtures of hydrocarbons with a thermally robust perarylphosphonium-based ionic liquid. RSC Advances, 2021, 11, 31328-31338.	1.7	2