John M Slattery

List of Publications by Year
in descending order

81 papers	3,727 citations	126907 33 h-index	128289 60 g-index
85 all docs	85 docs citations	85 times ranked	4158 citing authors

#	Article	IF	Citations
1	Why Are Ionic Liquids Liquid? A Simple Explanation Based on Lattice and Solvation Energies. Journal of the American Chemical Society, 2006, 128, 13427-13434.	13.7	537
2	Dielectric Response of Imidazolium-Based Room-Temperature Ionic Liquids. Journal of Physical Chemistry B, 2006, 110, 12682-12688.	2.6	294
3	How to Predict the Physical Properties of Ionic Liquids: A Volume-Based Approach. Angewandte Chemie - International Edition, 2007, 46, 5384-5388.	13.8	232
4	Solvent effects in palladium catalysed cross-coupling reactions. Green Chemistry, 2019, 21, 2164-2213.	9.0	203
5	Simple Access to the Nonâ€Oxidizing Lewis Superacid PhFâ†'Al(OR^F)₃ (R^F=C(CF₃)₃). Angewandte Chemie - International Edition, 2008, 47, 7659-7663.	13.8	189
6	The Dielectric Response of Room-Temperature Ionic Liquids:Â Effect of Cation Variationâ€. Journal of Physical Chemistry B, 2007, 111, 4775-4780.	2.6	188
7	In Silico Prediction of Molecular Volumes, Heat Capacities, and Temperature-Dependent Densities of Ionic Liquids. Industrial & Engineering Chemistry Research, 2009, 48, 2290-2296.	3.7	115
8	A Simple Route to Univalent Gallium Salts of Weakly Coordinating Anions. Angewandte Chemie - International Edition, 2010, 49, 3228-3231.	13.8	102
9	Supramolecular Bidentate Ligands by Metalâ€Directed in situ Formation of Antiparallel Î²â€Sheet Structures and Application in Asymmetric Catalysis. Chemistry - A European Journal, 2008, 14, 4488-4502.	3.3	98
10	Homoleptic Cuâ€"phosphorus and Cuâ€"ethene complexes. Chemical Communications, 2007, , 5046.	4.1	87
11	Temperature Dependence of the Viscosity and Conductivity of Mildly Functionalized and Nonâ€Functionalized [Tf₂N]^{âˆ’} Ionic Liquids. ChemPhysChem, 2011, 12, 2296-2310.	2.1	85
12	Nanosegregation and Structuring in the Bulk and at the Surface of Ionic-Liquid Mixtures. Journal of Physical Chemistry B, 2017, 121, 6002-6020.	2.6	82
13	How Lewis acidic is your cation? Putting phosphenium ions on the fluoride ion affinity scale. Dalton Transactions, 2012, 41, 1808-1815.	3.3	80
14	Ruthenium-Mediated Câ€"H Functionalization of Pyridine: The Role of Vinylidene and Pyridylidene Ligands. Journal of the American Chemical Society, 2013, 135, 2222-2234.	13.7	79
15	Semi-Empirical Methods to Predict the Physical Properties of Ionic Liquids: An Overview of Recent Developments. Zeitschrift Fur Physikalische Chemie, 2006, 220, 1343-1359.	2.8	77
16	Univalent Gallium Salts of Weakly Coordinating Anions: Effective Initiators/Catalysts for the Synthesis of Highly Reactive Polyisobutylene. Organometallics, 2013, 32, 6725-6735.	2.3	77
17	Interactions in Waterâ€"Ionic Liquid Mixtures: Comparing Protic and Aprotic Systems. Journal of Physical Chemistry B, 2017, 121, 599-609.	2.6	60
18	Selective Preparation of the [3,5-tBu2-1,2,4-C2P3] Ion and Synthesis and Structure of the Cationic Species nido-[3,5-tBu2-1,2,4-C2P3], Isoelectronic with [C5R5]. Angewandte Chemie - International Edition, 2003, 42, 2778-2782.	13.8	54

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19	Scattering Dynamics of Hyperthermal Oxygen Atoms on Ionic Liquid Surfaces: [emim][NTf₂] and [C₁₂mim][NTf₂]. Journal of Physical Chemistry C, 2010, 114, 4015-4027.	3.1	49
20	Synthesis, Coordination Chemistry and Bonding of Strong Nâ€Donor Ligands Incorporating the 1<i>H</i>â€Pyridinâ€(2<i>E</i>)â€Ylidene (PYE) Motif. Chemistry - A European Journal, 2009, 15, 11346-11360.	3.3	46
21	A mechanistic study into the interconversion of rhodium alkyne, alkynyl hydride and vinylidene complexes. Dalton Transactions, 2008, , 4552.	3.3	45
22	O(³P) Atoms as a Chemical Probe of Surface Ordering in Ionic Liquids. Journal of Physical Chemistry A, 2010, 114, 4896-4904.	2.5	45
23	Ionic Liquidâ€"Vacuum Interfaces Probed by Reactive Atom Scattering: Influence of Alkyl Chain Length and Anion Volume. Journal of Physical Chemistry C, 2015, 119, 5491-5505.	3.1	43
24	Supercritical CO₂ Extraction as an Effective Pretreatment Step for Wax Extraction in a Miscanthus Biorefinery. ACS Sustainable Chemistry and Engineering, 2016, 4, 5979-5988.	6.7	43
25	Exploring the bulk-phase structure of ionic liquid mixtures using small-angle neutron scattering. Faraday Discussions, 2018, 206, 265-289.	3.2	42
26	White phosphorus as a ligand for the coinage metals. Chemical Communications, 2012, 48, 1970.	4.1	38
27	Comparison of donor properties of N-heterocyclic carbenes and N-donors containing the 1H-pyridin-(2E)-ylidene motif. Pure and Applied Chemistry, 2010, 82, 1663-1671.	1.9	37
28	Insights into the intramolecular acetate-mediated formation of ruthenium vinylidene complexes: a ligand-assisted proton shuttle (LAPS) mechanism. Dalton Transactions, 2010, 39, 10432.	3.3	37
29	Evidence for a SN2-Type Pathway for Phosphine Exchange in Phosphineâ€"Phosphenium Cations, [R2Pï£¿PRâ€²3]+. Chemistry - A European Journal, 2007, 13, 6967-6974.	3.3	36
30	Cooperative Effect of a Classical and a Weak Hydrogen Bond for the Metalâ€Induced Construction of a Selfâ€Assembled Î²â€Turn Mimic. Chemistry - A European Journal, 2009, 15, 10405-10422.	3.3	36
31	O(³P) Atoms as a Probe of Surface Ordering in 1-Alkyl-3-methylimidazolium-Based Ionic Liquids. Journal of Physical Chemistry Letters, 2010, 1, 429-433.	4.6	36
32	Mechanistic insight into the ruthenium-catalysed anti-Markovnikov hydration of alkynes using a self-assembled complex: a crucial role for ligand-assisted proton shuttle processes. Dalton Transactions, 2014, 43, 11277-11285.	3.3	35
33	Liquidâ€Crystalline Ionic Liquids as Ordered Reaction Media for the Dielsâ€"Alder Reaction. Chemistry - A European Journal, 2016, 22, 16113-16123.	3.3	35
34	Columnar thermotropic mesophases formed by dimeric liquid-crystalline ionic liquids exhibiting large mesophase ranges. New Journal of Chemistry, 2011, 35, 2910.	2.8	33
35	Charged Behaviour from Neutral Ligands: Synthesis and Properties of Nâ€Heterocyclic Pseudoâ€amides. Chemistry - A European Journal, 2012, 18, 4329-4336.	3.3	27
36	Title is missing!. Angewandte Chemie, 2003, 115, 2884-2888.	2.0	24

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37	Access to novel fluorovinylidene ligands via exploitation of outer-sphere electrophilic fluorination: new insights into Câ€“F bond formation and activation. Dalton Transactions, 2016, 45, 1717-1726.	3.3	24
38	Determining the composition of the vacuumâ€“liquid interface in ionic-liquid mixtures. Faraday Discussions, 2018, 206, 497-522.	3.2	23
39	Anodic oxidation of organometallic sandwich complexes using [Al(OC(CF3)3)4]âˆ’ or [AsF6]âˆ’ as the supporting electrolyte anion. Journal of Fluorine Chemistry, 2010, 131, 1091-1095.	1.7	22
40	Ion-tagged Ï€-acidic alkene ligands promote Pd-catalysed allylâ€“aryl couplings in an ionic liquid. Chemical Communications, 2009, , 5734.	4.1	18
41	The effect of water on the microstructure and properties of benzene/[bmim][AOT]/[bmim][BF4] microemulsions. Physical Chemistry Chemical Physics, 2013, 15, 19301.	2.8	16
42	Outer-Sphere Electrophilic Fluorination of Organometallic Complexes. Journal of the American Chemical Society, 2015, 137, 10753-10759.	13.7	16
43	Hiding the Headgroup? Remarkable Similarity in Alkyl Coverage of the Surfaces of Pyrrolidinium- and Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry C, 2016, 120, 27369-27379.	3.1	15
44	A Structurally Characterized Fluoroalkyne. Angewandte Chemie - International Edition, 2017, 56, 7551-7556.	13.8	15
45	Filling a Niche in â€œLigand Spaceâ€•with Bulky, Electronâ€Poor Phosphorus(III) Alkoxides. Chemistry - A European Journal, 2019, 25, 2262-2271.	3.3	15
46	[Ru(Î·⁵-C₅H₅)(Î·⁶-C₁₀H₈)]PF₆as a catalyst precursor for the one-pot direct Câ€“H alkenylation of nitrogen heterocycles. Dalton Transactions, 2014, 43, 4565-4572.	3.3	14
47	Building blocks for the chemistry of perfluorinated alkoxyaluminates [Al{OC(CF₃)₃}₄]^{âˆ’}: simplified preparation and characterization of Li⁺â€“Cs⁺, Ag⁺, NH₄⁺, N₂H₅⁺ and N₂H₇⁺ salts. Dalton Transactions, 2020, 49, 7766-7773.	3.3	14
48	Primary amido substituted diborane(4) compounds and imidodiborate(4) anions. Dalton Transactions, 2005, , 3137.	3.3	13
49	1,2,4-Triazolium ions as flexible scaffolds for the construction of polyphilic ionic liquid crystals. Chemical Communications, 2018, 54, 9965-9968.	4.1	13
50	Synthesis and mesomorphism of related series of triphilic ionic liquid crystals based on 1,2,4-triazolium cations. Journal of Molecular Liquids, 2021, 321, 114758.	4.9	13
51	Probing Conformational Heterogeneity at the Ionic Liquidâ€“Vacuum Interface by Reactive-Atom Scattering. Journal of Physical Chemistry Letters, 2019, 10, 156-163.	4.6	11
52	Design and synthesis of fluorescent 7-deazaadenosine nucleosides containing Ï€-extended diarylacetylene motifs. Organic and Biomolecular Chemistry, 2015, 13, 68-72.	2.8	10
53	Insights into the Composition and Structural Chemistry of Gallium(I) Triflate. Angewandte Chemie - International Edition, 2021, 60, 1567-1572.	13.8	10
54	A green and efficient amine-functionalized ionic liquid/H2O catalytic system for the synthesis of Î±,Î±â€²-bis(substituted benzylidene)cyclopentanones. RSC Advances, 2013, 3, 8796.	3.6	9

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55	Reactive-Atom Scattering from Liquid Crystals at the Liquidâ€"Vacuum Interface: [C₁₂mim][BF₄] and 4-Cyano-4â€²-Octylbiphenyl (8CB). Langmuir, 2016, 32, 9938-9949.	3.5	9
56	Structure and dynamics of ionic liquids: general discussion. Faraday Discussions, 2018, 206, 291-337.	3.2	8
57	Phase behaviour and thermodynamics: general discussion. Faraday Discussions, 2017, 206, 113-139.	3.2	8
58	Phosphoramidate-Assisted Alkyne Activation: Probing the Mechanism of Proton Shuttling in a N,O-Chelated Cp*Ir(III) Complex. Organometallics, 2018, 37, 4630-4638.	2.3	8
59	Mechanistic insight into organic and industrial transformations: general discussion. Faraday Discussions, 2019, 220, 282-316.	3.2	8
60	Surface Structure of Alkyl/Fluoroalkylimidazolium Ionicâ€"Liquid Mixtures. Journal of Physical Chemistry B, 2022, 126, 1962-1979.	2.6	8
61	Heterobimetallic lithium alkyltriimido aluminate cages containing the [Râ€²Al(NR)3]4â^'tetraanion (Râ€² =) Tj ETQq1 1 0.784314 rgBT /	4.1	7
62	Highlights from liquid salts for energy and materials â€" Faraday Discussion, Ningbo, China, 11â€"13 May 2016. Chemical Communications, 2016, 52, 12538-12554.	4.1	7
63	Small-angle neutron scattering from mixtures of long- and short-chain 3-alkyl-1-methyl imidazolium bistriflimides. Physical Chemistry Chemical Physics, 2022, 24, 15811-15823.	2.8	7
64	Synthetic and Structural Studies of Cyclodistib(V)azanes. Inorganic Chemistry, 2005, 44, 5495-5500.	4.0	6
65	Structure of Amido Pyridinium Betaines: Persistent Intermolecular Câ^'Hâ‹…â‹…â‹…N Hydrogen Bonding in Solution. Chemistry - A European Journal, 2016, 22, 3414-3421.	3.3	5
66	Probing a Ruthenium Coordination Complex at the Ionic Liquidâ€"Vacuum Interface with Reactive-Atom Scattering, X-ray Photoelectron Spectroscopy, and Time-of-Flight Secondary Ion Mass Spectrometry. Journal of Physical Chemistry C, 2020, 124, 382-397.	3.1	5
67	Evidence for a S_N2-type pathway in the exchange of phosphines at a [PhSe]⁺centre. Dalton Transactions, 2015, 44, 110-118.	3.3	4
68	Improvements of energy conversion and storage: general discussion. Faraday Discussions, 2016, 190, 291-306.	3.2	4
69	Solvent- and anion-dependent rearrangement of fluorinated carbene ligands provides access to fluorinated alkenes. Dalton Transactions, 2019, 48, 17655-17659.	3.3	4
70	Insights into the Composition and Structural Chemistry of Gallium(I) Triflate. Angewandte Chemie, 2021, 133, 1591-1596.	2.0	4
71	A bis(imido)organoarsenate dianion incorporating n-butyllithium. Dalton Transactions, 2003, , 2103.	3.3	3
72	A Structurally Characterized Fluoroalkyne. Angewandte Chemie, 2017, 129, 7659-7664.	2.0	3

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73	Computational and theoretical approaches for mechanistic understanding: general discussion. Faraday Discussions, 2019, 220, 464-488.	3.2	3
74	Lithiumâ€"nitrogen and lithiumâ€"boronâ€"nitrogencage compounds formed using the phenylhydrazido backbone. Dalton Transactions, 2006, , 1234-1238.	3.3	2
75	Benefits to energy efficiency and environmental impact: general discussion. Faraday Discussions, 2016, 190, 161-204.	3.2	2
76	THE AGGREGATION OF LITHIUM IMIDO BORATES. Phosphorus, Sulfur and Silicon and the Related Elements, 2004, 179, 931-932.	1.6	0
77	Inelastic and Reactive Scattering Dynamics of Hyperthermal Oxygen Atoms on Ionic Liquid Surfaces: [emim][NTf[sub 2]] and [C[sub 12]mim][NTf[sub 2]]. , 2011, , .		0
78	Advancement in knowledge of phenomena and processes: general discussion. Faraday Discussions, 2016, 190, 525-549.	3.2	0
79	Ionic liquids at interfaces: general discussion. Faraday Discussions, 2018, 206, 549-586.	3.2	0
80	Understanding unusual element-element bond formation and activation: general discussion. Faraday Discussions, 2019, 220, 376-385.	3.2	0
81	Physical methods for mechanistic understanding: general discussion. Faraday Discussions, 2019, 220, 144-178.	3.2	0