

Peter S Schulz

List of Publications by Year in descending order

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65
papers

3,679
citations

201385

27
h-index

174990

52
g-index

70
all docs

70
docs citations

70
times ranked

3865
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of the C2 position in interionic interactions of imidazolium based ionic liquids: a vibrational and NMR spectroscopic study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14153.	1.3	278
2	Towards a Molecular Understanding of Cation–Anion Interactions—Probing the Electronic Structure of Imidazolium Ionic Liquids by NMR Spectroscopy, X-ray Photoelectron Spectroscopy and Theoretical Calculations. <i>Chemistry - A European Journal</i> , 2010, 16, 9018-9033.	1.7	264
3	Surface Science and Model Catalysis with Ionic Liquid–Modified Materials. <i>Advanced Materials</i> , 2011, 23, 2571-2587.	11.1	181
4	Influence of Different Substituents on the Surface Composition of Ionic Liquids Studied Using ARXPS. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2854-2864.	1.2	177
5	Influence of Different Anions on the Surface Composition of Ionic Liquids Studied Using ARXPS. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8682-8688.	1.2	176
6	Insights into the surface composition and enrichment effects of ionic liquids and ionic liquid mixtures. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1905.	1.3	143
7	Surface Enrichment and Depletion Effects of Ions Dissolved in an Ionic Liquid: An X-ray Photoelectron Spectroscopy Study. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7778-7780.	7.2	117
8	Carbon Dioxide Capture by an Amine Functionalized Ionic Liquid: Fundamental Differences of Surface and Bulk Behavior. <i>Journal of the American Chemical Society</i> , 2014, 136, 436-441.	6.6	109
9	Effective Chirality Transfer in Ionic Liquids through Ion-Pairing Effects. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1293-1295.	7.2	106
10	Surface Studies on the Ionic Liquid 1-Ethyl-3-Methylimidazolium Ethylsulfate Using X-Ray Photoelectron Spectroscopy (XPS). <i>Zeitschrift Fur Physikalische Chemie</i> , 2006, 220, 1439-1453.	1.4	101
11	Transesterification of methylsulfate and ethylsulfate ionic liquids—an environmentally benign way to synthesize long-chain and functionalized alkylsulfate ionic liquids. <i>Green Chemistry</i> , 2006, 8, 887-894.	4.6	72
12	Viscosity, Interfacial Tension, Self-Diffusion Coefficient, Density, and Refractive Index of the Ionic Liquid 1-Ethyl-3-methylimidazolium Tetracyanoborate as a Function of Temperature at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 828-835.	1.0	68
13	CO ₂ Capture by Novel Supported Ionic Liquid Phase Systems Consisting of Silica Nanoparticles Encapsulating Amine-Functionalized Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24437-24451.	1.5	62
14	Organic Reactions in Ionic Liquids Studied by in Situ XPS. <i>ChemPhysChem</i> , 2012, 13, 1725-1735.	1.0	50
15	Continuous catalytic Friedel–Crafts acylation in the biphasic medium of an ionic liquid and supercritical carbon dioxide. <i>Chemical Communications</i> , 2008, , 79-81.	2.2	46
16	Binary Diffusion Coefficients of the Liquid Organic Hydrogen Carrier System Dibenzyltoluene/Perhydrodibenzyltoluene. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 504-511.	1.0	42
17	Liquid–Liquid Biphasic, Platinum–Catalyzed Hydrosilylation of Allyl Chloride with Trichlorosilane using an Ionic Liquid Catalyst Phase in a Continuous Loop Reactor. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2599-2609.	2.1	41
18	An Adaptive Self-Healing Ionic Liquid Nanocomposite Membrane for Olefin–Paraffin Separations. <i>Advanced Materials</i> , 2012, 24, 4306-4310.	11.1	41

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19	Mutual and Thermal Diffusivity of Binary Mixtures of the Ionic Liquids [BMIM][C(CN) ₃] and [BMIM][B(CN) ₄] with Dissolved CO ₂ by Dynamic Light Scattering. Journal of Physical Chemistry B, 2014, 118, 4636-4646.	1.2	41
20	Chloroalkylsulfonate ionic liquids by ring opening of sultones with organic chloride salts. Chemical Communications, 2008, , 3867.	2.2	39
21	Thermophysical Properties of the Ionic Liquids [EMIM][B(CN) ₄] and [HMIM][B(CN) ₄]. Journal of Physical Chemistry B, 2013, 117, 8512-8523.	1.2	39
22	Synthesis of the novel MOF UiO-66 employing ionic liquids as a linker precursor. Dalton Transactions, 2018, 47, 14426-14430.	1.6	39
23	Ionic liquid silver salt complexes for propene/propane separation. Physical Chemistry Chemical Physics, 2011, 13, 725-731.	1.3	35
24	Ligand Effects on the Surface Composition of Rh-Containing Ionic Liquid Solutions Used in Hydroformylation Catalysis. Chemistry - A European Journal, 2010, 16, 12083-12087.	1.7	34
25	Thermophysical properties of imidazolium tricyanomethanide ionic liquids: experiments and molecular simulation. Physical Chemistry Chemical Physics, 2016, 18, 23121-23138.	1.3	31
26	Chitosan Containing Supported Ionic Liquid Phase Materials for CO ₂ Absorption. Industrial & Engineering Chemistry Research, 2016, 55, 7052-7059.	1.8	30
27	Infrared Spectroscopy of a Wilkinson Catalyst in a Room-Temperature Ionic Liquid. ChemPhysChem, 2008, 9, 2207-2213.	1.0	27
28	Monitoring of Liquid-Phase Organic Reactions by Photoelectron Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 2610-2613.	7.2	26
29	Redox chemistry, solubility, and surface distribution of Pt(II) and Pt(IV) complexes dissolved in ionic liquids. Journal of Molecular Liquids, 2014, 192, 103-113.	2.3	22
30	Diffusivities in Binary Mixtures of [AMIM][NTf ₂] Ionic Liquids with the Dissolved Gases H ₂ , He, N ₂ , CO, CO ₂ , or Kr Close to Infinite Dilution. Journal of Chemical & Engineering Data, 2020, 65, 4116-4129.	1.0	21
31	Detailed kinetic study of cumene isopropylation in a liquid-liquid biphasic system using acidic chloroaluminate ionic liquids. Journal of Catalysis, 2008, 258, 401-409.	3.1	18
32	Highly Selective Aromatic Alkylation of Phenol and Anisole by Using Recyclable Brønsted Acidic Ionic Liquid Systems. European Journal of Organic Chemistry, 2013, 2013, 6961-6966.	1.2	18
33	Direct synthesis of non-breathing MIL-53(Al)(ht) from a terephthalate-based ionic liquid as linker precursor. Dalton Transactions, 2016, 45, 18443-18446.	1.6	18
34	Chirality Transfer in Imidazolium Camphorsulfonate Ionic Liquids through Ion Pairing Effects. Advanced Synthesis and Catalysis, 2009, 351, 432-440.	2.1	17
35	Asymmetric hydrogenation catalysis via ion-pairing in chiral ionic liquids. Journal of Molecular Liquids, 2014, 192, 177-184.	2.3	17
36	Enhancing Task Specific Ionic Liquids'™ Thermal Stability by Structural Modification. Monatshefte für Chemie, 2007, 138, 1159-1161.	0.9	16

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37	Aggregation behaviour of chiral ionic liquids. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 2479-2481.	1.8	16
38	Thermophysical Properties of Homologous Tetracyanoborate-Based Ionic Liquids Using Experiments and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4145-4157.	1.2	16
39	Gluing Ionic Liquids to Oxide Surfaces: Chemical Anchoring of Functionalized Ionic Liquids by Vapor Deposition onto Cobalt(II) Oxide. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9072-9076.	7.2	16
40	Novel Inverse Supported Ionic Liquid Absorbents for Acidic Gas Removal from Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5748-5762.	1.8	15
41	Ionic Liquids as Solvent Probes for NMR Cryoporometry. <i>ChemPhysChem</i> , 2010, 11, 87-89.	1.0	14
42	Ion speciation driving chirality transfer in imidazolium-based camphorsulfonate ionic liquid solutions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4126.	1.3	13
43	Interaction of Ester-Functionalized Ionic Liquids with Atomically-Defined Cobalt Oxides Surfaces: Adsorption, Reaction and Thermal Stability. <i>ChemPhysChem</i> , 2017, 18, 3443-3453.	1.0	13
44	Catalyst recycling in monophasic Pt-catalyzed hydrosilylation reactions using ionic liquids. <i>Applied Catalysis A: General</i> , 2011, 399, 69-74.	2.2	12
45	A convenient method to access long-chain and functionalised mixed methylphosphonate esters and their application in the synthesis of ionic liquids. <i>Chemical Communications</i> , 2011, 47, 11234.	2.2	11
46	Facile synthesis of a tricyclohexylphosphine-stabilized η^3 -allyl-carboxylato Ni(II) complex and its relevance in electrochemical butadiene carbon dioxide coupling. <i>Applied Organometallic Chemistry</i> , 2005, 19, 1176-1179.	1.7	10
47	Zwitterionic clusters with dianion core produced by electrospray ionisation of Brønsted acidic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5115.	1.3	10
48	Ionic-Liquid-Modified Hybrid Materials Prepared by Physical Vapor Codeposition: Cobalt and Cobalt Oxide Nanoparticles in [C1C2Im][OTf] Monitored by In Situ IR Spectroscopy. <i>Langmuir</i> , 2016, 32, 8613-8622.	1.6	10
49	Influence of Carboxylate Anions on Phase Behavior of Choline Ionic Liquid Mixtures. <i>Molecules</i> , 2020, 25, 1691.	1.7	10
50	Synthesis and Properties of Organic Hexahalocerate(III) Salts. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1333-1339.	1.0	9
51	Gluing Ionic Liquids to Oxide Surfaces: Chemical Anchoring of Functionalized Ionic Liquids by Vapor Deposition onto Cobalt(II) Oxide. <i>Angewandte Chemie</i> , 2017, 129, 9200-9204.	1.6	8
52	Liquid silver tris(perfluoroethyl)trifluorophosphate salts as new media for propene/propane separation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28242-28253.	1.3	7
53	One-Step Synthesis of MIL-53(Al)/Boehmite Composites. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 887-893.	0.4	7
54	UiO-66 and hcp UiO-66 Catalysts Synthesized from Ionic Liquids as Linker Precursors. <i>ChemistryOpen</i> , 2021, 10, 233-242.	0.9	7

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55	Synthesis of the zeolitic imidazolate framework ZIF-4 from the ionic liquid 1-butyl-3-methylimidazolium imidazolate. <i>Journal of Chemical Physics</i> , 2018, 148, 193837.	1.2	6
56	Continuous Transesterification with Acidic Ionic Liquids as Homogeneous Catalysts. <i>Chemical Engineering and Technology</i> , 2013, 36, 1643-1650.	0.9	5
57	ZnO Nanoparticle Formation from the Molecular Precursor [MeZnO(CH ₂) ₄] ₄ by Ozone Treatment in Ionic Liquids: in situ Vibrational Spectroscopy in an Ultrahigh Vacuum Environment. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 31-40.	0.6	5
58	New Ionic Liquids Based on Anion Functionalization. <i>ACS Symposium Series</i> , 2007, , 258-271.	0.5	2
59	Chirality transfer in mandelate ionic liquids through ion pairing effects. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 1821-1824.	1.8	2
60	Isomerisation of 1,4-dichlorobenzene using highly acidic alkali chloroaluminate melts. <i>Chemical Communications</i> , 2014, 50, 11705-11708.	2.2	1
61	COSMO-RS Aided Kinetic Studies of Alkylation Reaction in Liquid-Liquid Biphasic Reaction Using Acidic Ionic Liquid Catalyst. <i>Chemie-Ingenieur-Technik</i> , 2008, 80, 1253-1253.	0.4	0
62	Messung von Diffusionskoeffizienten gasförmiger Alkene in ionischen Flüssigkeiten mittels NMR-Spektroskopie. <i>Chemie-Ingenieur-Technik</i> , 2009, 81, 1046-1047.	0.4	0
63	Verbesserung der Wasserstoffspeicherkapazität von Aminoboran/Ionische Flüssigkeitssystemen durch ionische Flüssigkeiten mit funktionellen Gruppen. <i>Chemie-Ingenieur-Technik</i> , 2009, 81, 1048-1048.	0.4	0
64	Inside Cover: Organic Reactions in Ionic Liquids Studied by in Situ XPS (<i>ChemPhysChem</i> 7/2012). <i>ChemPhysChem</i> , 2012, 13, 1602-1602.	1.0	0
65	Thermodynamic Analysis of Isomerization Equilibria of Chlorotoluenes and Dichlorobenzenes in a Biphasic Reaction Systems Containing Highly Acidic Chloroaluminate Melts. <i>Journal of Physical Chemistry B</i> , 2016, 120, 13152-13160.	1.2	0