Annegret Stark

List of Publications by Year
in descending order

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70	5,766	126708	88477
papers	citations	33 h-index	70 g-index

78	78	78	5693
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of chloride, water, and organic solvents on the physical properties of ionic liquids. Pure and Applied Chemistry, 2000, 72, 2275-2287.	0.9	2,126
2	Viscosity and Density of 1-Alkyl-3-methylimidazolium Ionic Liquids. ACS Symposium Series, 2002, , 34-49.	0.5	332
3	Progress in evaluation of risk potential of ionic liquidsâ€"basis for an eco-design of sustainable products. Green Chemistry, 2005, 7, 362.	4.6	215
4	Selective catalytic oxidation of benzyl alcohol and alkylbenzenes in ionic liquids. Green Chemistry, 2002, 4, 119-123.	4.6	200
5	Tailor-made ionic liquids. Journal of Chemical Thermodynamics, 2005, 37, 537-558.	1.0	180
6	Ionic liquids in the biorefinery: a critical assessment of their potential. Energy and Environmental Science, 2011, 4, 19-32.	15.6	174
7	Proton transfer and polarity changes in ionic liquidâ€"water mixtures: a perspective on hydrogen bonds from ab initio molecular dynamics at the example of 1-ethyl-3-methylimidazolium acetateâ€"water mixturesâ€"Part 1. Physical Chemistry Chemical Physics, 2012, 14, 5030.	1.3	144
8	Purity specification methods for ionic liquids. Green Chemistry, 2008, 10, 1152.	4.6	135
9	1-Ethyl-3-methylimidazolium halogenoaluminate ionic liquids as solvents for Friedelâ€"Crafts acylation reactions of ferrocene. Journal of the Chemical Society Dalton Transactions, 1999, , 63-66.	1.1	120
10	Carbene Formation in Ionic Liquids: Spontaneous, Induced, or Prohibited?. Journal of Physical Chemistry B, 2013, 117, 5898-5907.	1.2	109
11	Triphilic Ionicâ€Liquid Mixtures: Fluorinated and Nonâ€fluorinated Aprotic Ionicâ€Liquid Mixtures. ChemPhysChem, 2015, 16, 3325-3333.	1.0	107
12	LC-MS/MS determination of antiretroviral drugs in influents and effluents from wastewater treatment plants in KwaZulu-Natal, South Africa. Chemosphere, 2018, 200, 660-670.	4.2	104
13	Biomass-Derived Platform Chemicals: Thermodynamic Studies on the Conversion of 5-Hydroxymethylfurfural into Bulk Intermediates. Industrial & Engineering Chemistry Research, 2009, 48, 10087-10093.	1.8	94
14	Energetic, environmental and economic balances: Spice up your ionic liquid research efficiency. Green Chemistry, 2005, 7, 301.	4.6	92
15	On the ideality of binary mixtures of ionic liquids. Physical Chemistry Chemical Physics, 2012, 14, 13204.	1.3	90
16	Metathesis of 1-Octene in Ionic Liquids and Other Solvents: Effects of Substrate Solubility, Solvent Polarity and Impurities. Advanced Synthesis and Catalysis, 2006, 348, 1934-1941.	2.1	79
17	Making diazomethane accessible for R&D and industry: generation and direct conversion in a continuous micro-reactor set-up. Green Chemistry, 2008, 10, 41-43.	4.6	78
18	Significant Cation Effects in Carbon Dioxideâ€"Ionic Liquid Systems. ChemPhysChem, 2013, 14, 315-320.	1.0	77

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19	Is the ionic liquid 1-ethyl-3-methylimidazolium methanesulfonate [emim][MeSO3] capable of rigidly binding water?. Journal of Molecular Liquids, 2011, 160, 166-179.	2.3	66
20	On the Nature of Interactions between Ionic Liquids and Small Aminoâ€Acidâ€Based Biomolecules. ChemPhysChem, 2013, 14, 4044-4064.	1.0	60
21	Intensification of the Capillary-Based Kolbeâ˜Schmitt Synthesis from Resorcinol by Reactive Ionic Liquids, Microwave Heating, or a Combination Thereof. Organic Process Research and Development, 2009, 13, 970-982.	1.3	59
22	Degradation of BTEX in Aqueous Solution by Hydrodynamic Cavitation. Chemical Engineering and Technology, 2009, 32, 745-753.	0.9	55
23	Design of a Heterogeneous Catalyst Based on Cellulose Nanocrystals for Cyclopropanation: Synthesis and Solidâ€State NMR Characterization. Chemistry - A European Journal, 2015, 21, 12414-12420.	1.7	49
24	Ionic Liquids and Green Chemistry: A Lab Experiment. Journal of Chemical Education, 2010, 87, 196-201.	1.1	48
25	Ionic Liquid Applications in Peptide Chemistry: Synthesis, Purification and Analytical Characterization Processes. Molecules, 2012, 17, 4158-4185.	1.7	48
26	Liquid Structure and Cluster Formation in Ionic Liquid/Water Mixtures â€“ An Extensive ab initio Molecular Dynamics Study on 1-Ethyl-3-Methylimidazolium Acetate/Water Mixtures â€“ Part. Zeitschrift Fur Physikalische Chemie, 2013, 227, 177-204.	1.4	48
27	Flow Chemistry of the Kolbeâ€Schmitt Synthesis from Resorcinol: Process Intensification by Alternative Solvents, New Reagents and Advanced Reactor Engineering. Chemical Engineering and Technology, 2009, 32, 1774-1789.	0.9	43
28	Design of acidochromic dyes for facile preparation of pH sensor layers. Analytical and Bioanalytical Chemistry, 2008, 392, 1411-1418.	1.9	41
29	Ionic Liquid Structure-Induced Effects on Organic Reactions. Topics in Current Chemistry, 2008, 290, 41-81.	4.0	41
30	The effect of hydrogen bond acceptor properties of ionic liquids on their cellulose solubility. Science China Chemistry, 2012, 55, 1663-1670.	4.2	41
31	Efficient Synthesis of 1,3-Dialkylimidazolium-Based Ionic Liquids: The Modified Continuous Radziszewski Reaction in a Microreactor Setup. Organic Process Research and Development, 2010, 14, 1102-1109.	1.3	40
32	Microwaveâ€Assisted Kolbeâ€Schmitt Synthesis Using Ionic Liquids or Dimcarb as Reactive Solvents. Chemical Engineering and Technology, 2009, 32, 1730-1738.	0.9	37
33	A Generalized Procedure for the Production of High-Grade, Porous Biogenic Silica. Waste and Biomass Valorization, 2020, 11, 1-15.	1.8	34
34	2H and 19F solid-state NMR studies of the ionic liquid [C2Py][BTA]-d10 confined in mesoporous silica materials. Physical Chemistry Chemical Physics, 2010, 12, 11371.	1.3	33
35	Solidâ€“ionic liquid interfaces: pore filling revisited. Physical Chemistry Chemical Physics, 2014, 16, 24359-24372.	1.3	33
36	A room temperature ionic liquid as convenient solvent for the oxidative folding of conopeptides. Journal of Peptide Science, 2009, 15, 72-77.	0.8	32

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37	Agile Green Process Design for the Intensified Kolbeâ€“Schmitt Synthesis by Accompanying (Simplified) Life Cycle Assessment. Environmental Science & Technology, 2013, 47, 5362-5371.	4.6	30
38	Ion Pairing and Dynamics of the Ionic Liquid 1-Hexyl-3-methylimidazolium Bis(irifluoromethylsulfonyl)amide ([C₆mim][NTf₂]) in the Low Dielectric Solvent Chloroform. Journal of Physical Chemistry B, 2012, 116, 11488-11497.	1.2	28
39	Para-hydrogen induced polarization in homogeneous phaseâ€”an example of how ionic liquids affect homogenization and thus activation of catalysts. Physical Chemistry Chemical Physics, 2009, 11, 9170.	1.3	27
40	Biomass-Derived Platform Chemicals: Thermodynamic Studies on the Extraction of 5-Hydroxymethylfurfural from Ionic Liquids. Journal of Chemical & Engineering Data, 2012, 57, 2985-2991.	1.0	26
41	A Theoretical and Experimental Chemistâ€™s Joint View on Hydrogen Bonding in Ionic Liquids and Their Binary Mixtures. Topics in Current Chemistry, 2013, 351, 149-187.	4.0	26
42	Ultrasonic Cleavage of Thioethers. Journal of Physical Chemistry A, 2005, 109, 3762-3766.	1.1	25
43	Continuous Production of the Diazomethane Precursor N-Methyl-Nnitroso-ptoluenesulfonamide: Batch Optimization and Transfer into a Microreactor Setup. Organic Process Research and Development, 2009, 13, 1014-1021.	1.3	25
44	Composition Dependent Physicochemical Property Data for the Binary System Water and the Ionic Liquid 1-Butyl-3-methylimidazolium Methanesulfonate ([C₄mim][MeSO₃]). Journal of Chemical & Engineering Data, 2012, 57, 3330-3339.	1.0	23
45	Application of Roomâ€Temperature Aprotic and Protic Ionic Liquids for Oxidative Folding of Cysteineâ€Rich Peptides. ChemBioChem, 2014, 15, 2754-2765.	1.3	22
46	Calorimetric Study on the Ion Pairing and Aggregation of 1-Ethyl-3-Methylimidazolium bis(trifluoromethylsulfonyl)amide ([C2mim][NTf2]) and Related Ionic Liquids in the Low-Dielectric Constant Solvent Chloroform. Journal of Solution Chemistry, 2013, 42, 2034-2056.	0.6	19
47	Structural Studies on Ionic Liquid/Water/Peptide Systems by HRâ€MAS NMR Spectroscopy. ChemPhysChem, 2012, 13, 1836-1844.	1.0	17
48	Conversion of residue biomass into value added carbon materials: utilisation of sugarcane bagasse and ionic liquids. Journal of Materials Science, 2019, 54, 12476-12487.	1.7	16
49	Synthesis of Carbon Nanomaterials from Biomass Utilizing Ionic Liquids for Potential Application in Solar Energy Conversion and Storage. Materials, 2020, 13, 3945.	1.3	16
50	Hydrogen Bond Acceptor Properties of Ionic Liquids and Their Effect on Cellulose Solubility. ACS Symposium Series, 2010, , 121-135.	0.5	15
51	Reactions of Sulfur-Containing Organic Compounds and Peptides in 1-Ethyl-3-methyl-imidazolium Acetate. Journal of Organic Chemistry, 2017, 82, 7538-7545.	1.7	15
52	The Production of Biogenic Silica from Different South African Agricultural Residues through a Thermo-Chemical Treatment Method. Sustainability, 2021, 13, 577.	1.6	13
53	Efficient synthesis of triarylamine-based dyes for p-type dye-sensitized solar cells. Scientific Reports, 2016, 6, 26263.	1.6	12
54	Roles of Pumps and Bypass in Chemistry Induced by Hydrodynamic Cavitation. Chemical Engineering and Technology, 2010, 33, 341-346.	0.9	11

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55	Ionothermal synthesis of crystalline microporous aluminophosphates: Systematic study on the conditions affecting the framework type. Microporous and Mesoporous Materials, 2018, 266, 204-213.	2.2	11
56	Ionic liquid 1-ethyl-3-methylimidazolium acetate: an attractive solvent for native chemical ligation of peptides. Tetrahedron Letters, 2014, 55, 3658-3662.	0.7	10
57	Ionothermal synthesis and characterisation of Mn-, Co-, Fe- and Ni-containing aluminophosphates. Microporous and Mesoporous Materials, 2018, 272, 251-259.	2.2	10
58	The First Systematic Study on the Conditions Affecting the Ionothermal Synthesis of Silicoaluminophosphates. ChemistrySelect, 2018, 3, 12495-12503.	0.7	9
59	Ionic liquids as solvents for a ruthenium-catalyzed Câ€“H activation reaction: synthesis of heterocyclic compounds from Î±,Î²-unsaturated imines, carbon monoxide, and ethylene. Monatshefte FÃ¼r Chemie, 2010, 141, 413-418.	0.9	8
60	Graphene oxide applications in biorefinery catalysis to chemical commodities: critical review, prospects and challenges. Biomass Conversion and Biorefinery, 2023, 13, 4619-4638.	2.9	8
61	Shaping micro- and macroscopic properties of ionic liquidâ€“solute systems: Multi-functional task-specific agents. Journal of Molecular Liquids, 2014, 192, 144-152.	2.3	7
62	Order in the chaos: the secret of the large negative entropy of dissolving 1-alkyl-3-methylimidazolium chloride in trihexyltetradecylphosphonium chloride. Physical Chemistry Chemical Physics, 2015, 17, 4034-4037.	1.3	6
63	Ionic liquids and cellulose: Innovative feedstock for synthesis of carbon nanostructured material. Materials Chemistry and Physics, 2019, 234, 201-209.	2.0	6
64	Understanding oxidative reaction of carbon nanoplatelets towards tailored physicochemical properties. Materials Chemistry and Physics, 2022, 277, 125535.	2.0	6
65	Crystal structures of a series of 3,7-bis-(arylazo)-1,3,5,7-tetraazabicyclo[3.3.1]nonanes. Journal of Chemical Crystallography, 1998, 28, 797-809.	0.5	5
66	Surface modifications of carbon nanotubes towards tailored electrochemical characteristics. Journal of Materials Science: Materials in Electronics, 2021, 32, 27923.	1.1	5
67	Cation-fluorinated ionic liquids: Synthesis, physicochemical properties and comparison with non-fluorinated analogues. Journal of Molecular Liquids, 2022, 349, 118104.	2.3	5
68	Der Einsatz von Mikroreaktoren im chemisch-technischen Praktikum. Chemie-Ingenieur-Technik, 2008, 80, 1529-1537.	0.4	4
69	Effects of Ionic Liquid and Biomass Sources on Carbon Nanotube Physical and Electrochemical Properties. Sustainability, 2021, 13, 2977.	1.6	4
70	UV-Spectroscopic Quantitative Determination of Non-aromatic Amines in Ionic Liquids. Analytical Sciences, 2008, 24, 681-683.	0.8	3