

Christian Schrder

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100 papers	3,282 citations	30 h-index	55 g-index
111 ext. papers	3,858 ext. citations	5.7 avg, IF	5.86 L-index

#	Paper	IF	Citations
100	Crystalline vs. ionic liquid salt forms of active pharmaceutical ingredients: a position paper. <i>Pharmaceutical Research</i> , 2010 , 27, 521-6	4.5	259
99	Molecular Dynamics Simulations of Ionic Liquids and Electrolytes Using Polarizable Force Fields. <i>Chemical Reviews</i> , 2019 , 119, 7940-7995	68.1	206
98	Comparing reduced partial charge models with polarizable simulations of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3089-102	3.6	198
97	An iron-containing ionic liquid as recyclable catalyst for aryl grignard cross-coupling of alkyl halides. <i>Organic Letters</i> , 2006 , 8, 733-5	6.2	175
96	In search of pure liquid salt forms of aspirin: ionic liquid approaches with acetylsalicylic acid and salicylic acid. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2011-7	3.6	159
95	Applications of Chiral Ionic Liquids. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 3235-3250	3.2	153
94	Confused ionic liquid ions--a "liquification" and dosage strategy for pharmaceutically active salts. <i>Chemical Communications</i> , 2010 , 46, 1215-7	5.8	104
93	Liquid forms of pharmaceutical co-crystals: exploring the boundaries of salt formation. <i>Chemical Communications</i> , 2011 , 47, 2267-9	5.8	103
92	Pharmaceutically active ionic liquids with solids handling, enhanced thermal stability, and fast release. <i>Chemical Communications</i> , 2012 , 48, 5422-4	5.8	86
91	Simulating polarizable molecular ionic liquids with Drude oscillators. <i>Journal of Chemical Physics</i> , 2010 , 133, 154511	3.9	77
90	Ionic liquid based microemulsions: A review. <i>Journal of Molecular Liquids</i> , 2020 , 303, 112264	6	71
89	Micellar catalysis in aqueous-ionic liquid systems. <i>Chemical Communications</i> , 2012 , 48, 5013-5	5.8	69
88	Prodrug ionic liquids: functionalizing neutral active pharmaceutical ingredients to take advantage of the ionic liquid form. <i>MedChemComm</i> , 2013 , 4, 559	5	67
87	Ionic liquids and fragrances Direct isolation of orange essential oil. <i>Green Chemistry</i> , 2011 , 13, 1997	10	66
86	Surface-active ionic liquids in micellar catalysis: impact of anion selection on reaction rates in nucleophilic substitutions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13375-84	3.6	59
85	Polarisabilities of alkylimidazolium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 2703-11	3.6	57
84	From plant to drug: ionic liquids for the reactive dissolution of biomass. <i>Green Chemistry</i> , 2011 , 13, 1442	10	52

83	From waste to value Direct utilization of limonene from orange peel in a biocatalytic cascade reaction towards chiral carvolactone. <i>Green Chemistry</i> , 2017 , 19, 367-371	10	51
82	New aspects for biomass processing with ionic liquids: towards the isolation of pharmaceutically active betulin. <i>Green Chemistry</i> , 2012 , 14, 940	10	50
81	Thermodynamic study for micellization of imidazolium based surface active ionic liquids in water: Effect of alkyl chain length and anions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 532, 609-617	5.1	49
80	Active pharmaceutical ingredients based on salicylate ionic liquids: insights into the evaluation of pharmaceutical profiles. <i>New Journal of Chemistry</i> , 2013 , 37, 4095	3.6	45
79	Metal-Containing Ionic Liquids as Efficient Catalysts for Hydroxymethylation in Water. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 3453-3456	3.2	45
78	Chemoselective Supported Ionic-Liquid-Phase (SILP) Aldehyde Hydrogenation Catalyzed by an Fe(II) PNP Pincer Complex. <i>ACS Catalysis</i> , 2018 , 8, 1048-1051	13.1	44
77	Surface-active Ionic Liquids for Micellar Extraction of Piperine from Black Pepper. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2013 , 68, 1129-1137	1	44
76	Extraction and consecutive purification of anthocyanins from grape pomace using ionic liquid solutions. <i>Fluid Phase Equilibria</i> , 2017 , 451, 68-78	2.5	43
75	Hydrated Ionic Liquids with and without Solute: The Influence of Water Content and Protein Solutes. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3911-28	6.4	43
74	Exploring ionic liquidBiomass interactions: towards the improved isolation of shikimic acid from star anise pods. <i>RSC Advances</i> , 2013 , 3, 26010	3.7	41
73	Toxic on purpose: ionic liquid fungicides as combinatorial crop protecting agents. <i>Green Chemistry</i> , 2011 , 13, 2344	10	40
72	Ionic Liquid-Based Microemulsions in Catalysis. <i>Journal of Organic Chemistry</i> , 2016 , 81, 12332-12339	4.2	31
71	Surface-active ionic liquids in catalysis: Impact of structure and concentration on the aerobic oxidation of octanol in water. <i>Journal of Colloid and Interface Science</i> , 2017 , 492, 136-145	9.3	30
70	Quantum mechanical determination of atomic polarizabilities of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 10992-10996	3.6	30
69	Automated evaluation of pharmaceutically active ionic liquidsS(eco)toxicity through the inhibition of human carboxylesterase and <i>Vibrio fischeri</i> . <i>Journal of Hazardous Materials</i> , 2014 , 265, 133-41	12.8	30
68	Coordinating Chiral Ionic Liquids: Design, Synthesis, and Application in Asymmetric Transfer Hydrogenation under Aqueous Conditions. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 2374-2381 ²	3.2	29
67	A comparison of two methods of recovering cobalt from a deep eutectic solvent: Implications for battery recycling. <i>Journal of Cleaner Production</i> , 2017 , 167, 806-814	10.3	29
66	Surface-active ionic liquids for palladium-catalysed cross coupling in water: effect of ionic liquid concentration on the catalytically active species. <i>RSC Advances</i> , 2017 , 7, 41144-41151	3.7	29

65	Additive polarizabilities in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1665-70	3.6	27
64	Continuous Conversion of Carbon Dioxide to Propylene Carbonate with Supported Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13131-13139	8.3	27
63	Basic chiral ionic liquids: A novel strategy for acid-free organocatalysis. <i>Catalysis Today</i> , 2013 , 200, 80-86	5.3	26
62	Direct extraction of genomic DNA from maize with aqueous ionic liquid buffer systems for applications in genetically modified organisms analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 7773-84	4.4	24
61	Highly Effective Supported Ionic Liquid-Phase (SILP) Catalysts: Characterization and Application to the Hydrosilylation Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4699-4706	8.3	23
60	Valorization of olive tree leaves: Extraction of oleanolic acid using aqueous solutions of surface-active ionic liquids. <i>Separation and Purification Technology</i> , 2018 , 204, 30-37	8.3	23
59	Acyclovir as an Ionic Liquid Cation or Anion Can Improve Aqueous Solubility. <i>ACS Omega</i> , 2017 , 2, 3483-3493	3.9	23
58	Anti-inflammatory choline based ionic liquids: Insights into their lipophilicity, solubility and toxicity parameters. <i>Journal of Molecular Liquids</i> , 2017 , 232, 20-26	6	20
57	Fast and efficient extraction of DNA from meat and meat derived products using aqueous ionic liquid buffer systems. <i>New Journal of Chemistry</i> , 2015 , 39, 4994-5002	3.6	18
56	Dielectric spectra of ionic liquids and their conversion to solvation dynamics: a detailed computational analysis of polarizable systems. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10999-10099	3.6	18
55	Hydration and Counterion Binding of [CMIM] Micelles. <i>Langmuir</i> , 2017 , 33, 9844-9856	4	18
54	Evaluating excited state atomic polarizabilities of chromophores. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8554-8563	3.6	17
53	Toward a benign strategy for the manufacturing of betulinic acid. <i>Green Chemistry</i> , 2017 , 19, 1014-1022	10	16
52	Simple lysis of bacterial cells for DNA-based diagnostics using hydrophilic ionic liquids. <i>Scientific Reports</i> , 2019 , 9, 13994	4.9	16
51	FI-ICP-OES determination of Pb in drinking water after pre-concentration using magnetic nanoparticles coated with ionic liquid. <i>Microchemical Journal</i> , 2019 , 146, 339-344	4.8	16
50	Computational analysis of the solvation of coffee ingredients in aqueous ionic liquid mixtures. <i>RSC Advances</i> , 2017 , 7, 3495-3504	3.7	15
49	Iron catalyzed Michael addition: Chloroferrate ionic liquids as efficient catalysts under microwave conditions. <i>Science China Chemistry</i> , 2012 , 55, 1614-1619	7.9	15
48	Amino alcohol-derived chiral ionic liquids: structural investigations toward chiral recognition. <i>Tetrahedron: Asymmetry</i> , 2015 , 26, 1069-1082		14

47	A shell-resolved analysis of preferential solvation of coffee ingredients in aqueous mixtures of the ionic liquid 1-ethyl-3-methylimidazolium acetate. <i>Journal of Chemical Physics</i> , 2018 , 148, 193819	3.9	13
46	Coordinating chiral ionic liquids. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 8092-102	3.9	12
45	The effect of Thole functions on the simulation of ionic liquids with point induced dipoles at various densities. <i>Journal of Chemical Physics</i> , 2013 , 138, 204119	3.9	12
44	Fluorine-free, liquid-repellent surfaces made from ionic liquid-infused nanostructured silicon. <i>Monatshefte für Chemie</i> , 2017 , 148, 167-177	1.4	11
43	Additive polarizabilities of halides in ionic liquids and organic solvents. <i>Journal of Chemical Physics</i> , 2018 , 149, 044302	3.9	11
42	Toward the Recovery of Platinum Group Metals from a Spent Automotive Catalyst with Supported Ionic Liquid Phases. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 375-386	8.3	11
41	Computational solvation analysis of biomolecules in aqueous ionic liquid mixtures : From large flexible proteins to small rigid drugs. <i>Biophysical Reviews</i> , 2018 , 10, 825-840	3.7	10
40	Ionic Liquids as Fragrance Precursors: Smart Delivery Systems for Volatile Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16069-16076	3.9	10
39	Purification of anthocyanins from grape pomace by centrifugal partition chromatography. <i>Journal of Molecular Liquids</i> , 2021 , 326, 115324	6	10
38	Chemical composition and antioxidant potential of Cannabis sativa L. roots. <i>Industrial Crops and Products</i> , 2021 , 165, 113422	5.9	10
37	Ion-Tagged Chiral Ligands for Asymmetric Transfer Hydrogenations in Aqueous Medium. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3414-3423	8.3	10
36	Design and synthesis of basic ionic liquids for the esterification of triterpenic acids. <i>Monatshefte für Chemie</i> , 2017 , 148, 139-148	1.4	9
35	Automated evaluation of protein binding affinity of anti-inflammatory choline based ionic liquids. <i>Talanta</i> , 2016 , 150, 20-6	6.2	9
34	Carbon-based SILP catalysis for the selective hydrogenation of aldehydes using a well-defined Fe(II) PNP complex. <i>Catalysis Science and Technology</i> , 2018 , 8, 4812-4820	5.5	9
33	Selective Hydrogenation of Aldehydes Using a Well-Defined Fe(II) PNP Pincer Complex in Biphasic Medium. <i>ChemCatChem</i> , 2018 , 10, 4386-4394	5.2	7
32	Surface-Active Ionic Liquids in Catalytic Water Splitting. <i>Australian Journal of Chemistry</i> , 2019 , 72, 34	1.2	7
31	Ionic liquids for consumer products: Dissolution, characterization, and controlled release of fragrance compositions. <i>Fluid Phase Equilibria</i> , 2017 , 450, 51-56	2.5	7
30	Microwave-Assisted Synthesis of Camphor-Derived Chiral Imidazolium Ionic Liquids and Their Application in Diastereoselective Diels-Alder Reaction. <i>Synthesis</i> , 2007 , 2007, 1333-1338	2.9	7

29	Surface-active ionic liquids: A review. <i>Journal of Molecular Liquids</i> , 2021 , 347, 118160	6	7
28	From Solvent to Sustainable Catalysis - Chloroferrate Ionic Liquids in Synthesis. <i>Current Organic Synthesis</i> , 2011 , 8, 824-839	1.9	7
27	Bioparticles coated with an ionic liquid for the pre-concentration of rare earth elements from microwave-digested tea samples and the subsequent quantification by ETV-ICP-OES. <i>Analytical Methods</i> , 2016 , 8, 7808-7815	3.2	7
26	The physical significance of the Kamlet-Taft * parameter of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 1616-1626	3.6	7
25	Molecular dynamics simulation of aqueous 1-dodecyl-3-methylimidazolium chloride: Emerging micelles. <i>Journal of Molecular Liquids</i> , 2018 , 272, 766-777	6	7
24	Asymmetric Transfer Hydrogenation in Thermomorphic Microemulsions Based on Ionic Liquids. <i>Organic Process Research and Development</i> , 2019 , 23, 1841-1851	3.9	6
23	Counterion Enhanced Organocatalysis: A Novel Approach for the Asymmetric Transfer Hydrogenation of Enones. <i>ChemCatChem</i> , 2020 , 12, 3776-3782	5.2	5
22	Dynamic streamlined extraction of iridoids, anthocyanins and lipids from haskap berries. <i>LWT - Food Science and Technology</i> , 2021 , 138, 110633	5.4	5
21	Counterion-Enhanced Pd/Enamine Catalysis: Direct Asymmetric α -Allylation of Aldehydes with Allylic Alcohols by Chiral Amines and Achiral or Racemic Phosphoric Acids. <i>Journal of Organic Chemistry</i> , 2021 , 86, 850-860	4.2	4
20	Influence of the Ionic Liquid on the Activity of a Supported Ionic Liquid Phase Fe Pincer Catalyst for the Hydrogenation of Aldehydes. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 3503-3510	2.3	3
19	Design, synthesis, and application of novel chiral ONN ligands for asymmetric alkylation. <i>Monatshefte für Chemie</i> , 2013 , 144, 447-453	1.4	3
18	Application of meso-hydrobenzoin-derived chiral auxiliaries for the stereoselective synthesis of highly substituted pyrrolidines by 1,3-dipolar cycloaddition of azomethine ylides. <i>Tetrahedron: Asymmetry</i> , 2010 , 21, 641-646		3
17	Carbamate-based P,O-ligands for asymmetric allylic alkylations. <i>Tetrahedron</i> , 2020 , 76, 131246	2.4	2
16	Synthesis and analytics of 2,2,3,4,4-d5-19-nor-5 α -androsterone--an internal standard in doping analysis. <i>Steroids</i> , 2007 , 72, 429-36	2.8	2
15	A Combined Deep Eutectic Solvent-Ionic Liquid Process for the Extraction and Separation of Platinum Group Metals (Pt, Pd, Rh). <i>Molecules</i> , 2021 , 26,	4.8	2
14	Chiral Phosphoric Acids as Versatile Tools for Organocatalytic Asymmetric Transfer Hydrogenations. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 5367-5381	3.2	2
13	Non-additive electronic polarizabilities of ionic liquids: Charge delocalization effects. <i>Journal of Molecular Liquids</i> , 2021 , 346, 117099	6	2
12	Benign recovery of platinum group metals from spent automotive catalysts using choline-based deep eutectic solvents. <i>Green Chemistry Letters and Reviews</i> , 2022 , 15, 404-414	4.7	2

11	General review of ionic liquids and their properties 2016 , 1-23		1
10	Leaching of Active Ingredients from Plants with Ionic Liquids. <i>Green Chemistry and Sustainable Technology</i> , 2016 , 135-165	1.1	1
9	Chiral Ionic Liquids in Separation Sciences. <i>Green Chemistry and Sustainable Technology</i> , 2016 , 167-192	1.1	1
8	Synthesis of Partially Deuterated N-Nitrosamines [New Standards in Tobacco-smoke Analysis. <i>Monatshefte Für Chemie</i> , 2004 , 135, 549-555	1.4	1
7	The influence of the cation structure on the basicity-related polarity of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26750-26760	3.6	1
6	Combined ionic liquid and supercritical carbon dioxide based dynamic extraction of six cannabinoids from L.. <i>Green Chemistry</i> , 2021 , 23, 10079-10089	10	1
5	Enantiomerization of Axially Chiral Biphenyls: Polarizable MD Simulations in Water and Butylmethylether. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
4	Determination of residual chloride content in ionic liquids using LA-ICP-MS. <i>RSC Advances</i> , 2016 , 6, 90273-90279	3.7	1
3	Charge delocalization and hyperpolarizability in ionic liquids. <i>Journal of Molecular Liquids</i> , 2021 , 118153	6	0
2	Electrochemical properties of halogenated benzylidenehydrazino-pyrazoles in various imidazolium-based ionic liquids. <i>Monatshefte Für Chemie</i> , 2018 , 149, 823-831	1.4	
1	Synthesis and characterisation of ionic liquids 2016 , 25-41		