

# Stefan Stolte

## List of Publications by Citations

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107  
papers

6,585  
citations

40  
h-index

80  
g-index

114  
ext. papers

7,357  
ext. citations

9.9  
avg. IF

5.73  
L-index

#	Paper	IF	Citations
107	Design of sustainable chemical products--the example of ionic liquids. <i>Chemical Reviews</i> , <b>2007</b> , 107, 2183-2206	10.6	695
106	The nanoparticle biomolecule corona: lessons learned - challenge accepted?. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 6094-121	58.5	427
105	Effects of different head groups and functionalised side chains on the aquatic toxicity of ionic liquids. <i>Green Chemistry</i> , <b>2007</b> , 9, 1170	10	377
104	The influence of anion species on the toxicity of 1-alkyl-3-methylimidazolium ionic liquids observed in an (eco)toxicological test battery. <i>Green Chemistry</i> , <b>2007</b> , 9, 1198	10	288
103	Lipophilicity parameters for ionic liquid cations and their correlation to in vitro cytotoxicity. <i>Ecotoxicology and Environmental Safety</i> , <b>2007</b> , 67, 430-8	7	286
102	Anion effects on the cytotoxicity of ionic liquids. <i>Green Chemistry</i> , <b>2006</b> , 8, 621	10	275
101	Primary biodegradation of ionic liquid cations, identification of degradation products of 1-methyl-3-octylimidazolium chloride and electrochemical wastewater treatment of poorly biodegradable compounds. <i>Green Chemistry</i> , <b>2008</b> , 10, 214-224	10	206
100	Antimicrobial and surface activity of 1-alkyl-3-methylimidazolium derivatives. <i>Green Chemistry</i> , <b>2010</b> , 12, 593	10	204
99	Progress in evaluation of risk potential of ionic liquidsBasis for an eco-design of sustainable products. <i>Green Chemistry</i> , <b>2005</b> , 7, 362	10	199
98	Effects of different head groups and functionalised side chains on the cytotoxicity of ionic liquids. <i>Green Chemistry</i> , <b>2007</b> , 9, 760-767	10	193
97	(Eco)toxicity and biodegradability of selected protic and aprotic ionic liquids. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 261, 99-105	12.8	169
96	Qualitative and quantitative structure activity relationships for the inhibitory effects of cationic head groups, functionalised side chains and anions of ionic liquids on acetylcholinesterase. <i>Green Chemistry</i> , <b>2008</b> , 10, 47-58	10	163
95	Ecotoxicity evaluation of selected sulfonamides. <i>Chemosphere</i> , <b>2011</b> , 85, 928-33	8.4	142
94	Environmental and health impact assessment of Liquid Organic Hydrogen Carrier (LOHC) systems □ challenges and preliminary results. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1035-1045	35.4	134
93	Electrochemical degradation of sulfonamides at BDD electrode: kinetics, reaction pathway and eco-toxicity evaluation. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 280, 579-87	12.8	121
92	Hydrolysis of sulphonamides in aqueous solutions. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 221-222, 264-74	12.8	104
91	Ionic liquids as lubricants or lubrication additives: an ecotoxicity and biodegradability assessment. <i>Chemosphere</i> , <b>2012</b> , 89, 1135-41	8.4	103

90	Biodegradability of 27 pyrrolidinium, morpholinium, piperidinium, imidazolium and pyridinium ionic liquid cations under aerobic conditions. <i>Green Chemistry</i> , <b>2014</b> , 16, 2174-2184	10	95
89	The Biodegradation of Ionic Liquids - the View from a Chemical Structure Perspective. <i>Current Organic Chemistry</i> , <b>2011</b> , 15, 1946-1973	1.7	94
88	Stability of Ionic Liquids in Application Conditions. <i>Current Organic Chemistry</i> , <b>2011</b> , 15, 1974-1991	1.7	86
87	Imidazolium based ionic liquids in soils: effects of the side chain length on wheat ( <i>Triticum aestivum</i> ) and cress ( <i>Lepidium sativum</i> ) as affected by different clays and organic matter. <i>Green Chemistry</i> , <b>2008</b> , 10, 584	10	83
86	Synthesis, toxicity, biodegradability and physicochemical properties of 4-benzyl-4-methylmorpholinium-based ionic liquids. <i>Green Chemistry</i> , <b>2011</b> , 13, 2901	10	77
85	Toxicity and biodegradability of dicationic ionic liquids. <i>RSC Advances</i> , <b>2014</b> , 4, 5198	3.7	71
84	Beta-blockers in the environment: part II. Ecotoxicity study. <i>Science of the Total Environment</i> , <b>2014</b> , 493, 1122-6	10.2	70
83	Beta-blockers in the environment: part I. Mobility and hydrolysis study. <i>Science of the Total Environment</i> , <b>2014</b> , 493, 1112-21	10.2	69
82	Identification of ionic liquid breakdown products in an advanced oxidation system. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 171, 478-83	12.8	68
81	Aquatic toxicity of four veterinary drugs commonly applied in fish farming and animal husbandry. <i>Chemosphere</i> , <b>2013</b> , 92, 1253-9	8.4	66
80	Ionic liquids in soils: effects of different anion species of imidazolium based ionic liquids on wheat ( <i>Triticum aestivum</i> ) as affected by different clay minerals and clay concentrations. <i>Ecotoxicology</i> , <b>2009</b> , 18, 197-203	2.9	63
79	Development of sensitive and reliable LC-MS/MS methods for the determination of three fluoroquinolones in water and fish tissue samples and preliminary environmental risk assessment of their presence in two rivers in northern Poland. <i>Science of the Total Environment</i> , <b>2014</b> , 493, 1006-13	10.2	60
78	Changing environments and biomolecule coronas: consequences and challenges for the design of environmentally acceptable engineered nanoparticles. <i>Green Chemistry</i> , <b>2018</b> , 20, 4133-4168	10	58
77	The influence of salinity on the toxicity of selected sulfonamides and trimethoprim towards the green algae <i>Chlorella vulgaris</i> . <i>Journal of Hazardous Materials</i> , <b>2016</b> , 308, 179-86	12.8	57
76	Mixture effects and predictability of combination effects of imidazolium based ionic liquids as well as imidazolium based ionic liquids and cadmium on terrestrial plants ( <i>Triticum aestivum</i> ) and limnic green algae ( <i>Scenedesmus vacuolatus</i> ). <i>Green Chemistry</i> , <b>2008</b> , 10, 784	10	57
75	(Eco)toxicity of fluoro-organic and cyano-based ionic liquid anions. <i>Chemical Communications</i> , <b>2012</b> , 48, 9382-4	5.8	53
74	Toxicity of ionic liquid cations and anions towards activated sewage sludge organisms from different sources -- consequences for biodegradation testing and wastewater treatment plant operation. <i>Water Research</i> , <b>2013</b> , 47, 2921-8	12.5	52
73	Ionic liquids: predictions of physicochemical properties with experimental and/or DFT-calculated LFER parameters to understand molecular interactions in solution. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 6040-50	3.4	49

72	Ecotoxicity of artificial sweeteners and stevioside. <i>Environment International</i> , <b>2013</b> , 60, 123-7	12.9	45
71	In silico modelling for predicting the cationic hydrophobicity and cytotoxicity of ionic liquids towards the Leukemia rat cell line, <i>Vibrio fischeri</i> and <i>Scenedesmus vacuolatus</i> based on molecular interaction potentials of ions. <i>SAR and QSAR in Environmental Research</i> , <b>2013</b> , 24, 863-82	3.5	45
70	Ionic liquid effects on the activity of monooxygenase P450 BM-3. <i>Green Chemistry</i> , <b>2008</b> , 10, 117-123	10	45
69	Advanced oxidation process for the removal of ionic liquids from water: The influence of functionalized side chains on the electrochemical degradability of imidazolium cations. <i>Separation and Purification Technology</i> , <b>2012</b> , 101, 26-33	8.3	43
68	Anaerobic biodegradability of ionic liquid cations under denitrifying conditions. <i>Green Chemistry</i> , <b>2010</b> , 12, 620	10	42
67	Electrochemical oxidation of imidazolium-based ionic liquids: The influence of anions. <i>Chemical Engineering Journal</i> , <b>2012</b> , 198-199, 338-345	14.7	39
66	Acute Aquatic Toxicity and Biodegradability of Fluorinated Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3733-3741	8.3	39
65	Toxicity of anthelmintic drugs (fenbendazole and flubendazole) to aquatic organisms. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 2566-73	5.1	38
64	Synthesis, Toxicity, and Biodegradation of Tunable Aryl Alkyl Ionic Liquids (TAAILs). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 410-418	8.3	38
63	Influence of microbial adaption and supplementation of nutrients on the biodegradation of ionic liquids in sewage sludge treatment processes. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 195, 378-82	12.8	38
62	Review of the toxic effects of ionic liquids. <i>Science of the Total Environment</i> , <b>2021</b> , 786, 147309	10.2	38
61	Biodegradability of fluoroorganic and cyano-based ionic liquid anions under aerobic and anaerobic conditions. <i>Green Chemistry</i> , <b>2012</b> , 14, 410-418	10	36
60	A comparative study of electrochemical degradation of imidazolium and pyridinium ionic liquids: A reaction pathway and ecotoxicity evaluation. <i>Separation and Purification Technology</i> , <b>2015</b> , 156, 522-534	8.3	33
59	Hydrolysis study of fluoroorganic and cyano-based ionic liquid anions [consequences for operational safety and environmental stability. <i>Green Chemistry</i> , <b>2012</b> , 14, 2474	10	33
58	Mixture toxicity of six sulfonamides and their two transformation products to green algae <i>Scenedesmus vacuolatus</i> and duckweed <i>Lemna minor</i> . <i>Chemosphere</i> , <b>2017</b> , 173, 542-550	8.4	31
57	Comprehensive approach for predicting toxicological effects of ionic liquids on several biological systems using unified descriptors. <i>Scientific Reports</i> , <b>2016</b> , 6, 33403	4.9	31
56	Acute aquatic toxicity assessment of six anti-cancer drugs and one metabolite using biotest battery - Biological effects and stability under test conditions. <i>Chemosphere</i> , <b>2017</b> , 189, 689-698	8.4	30
55	Primary degradation of antidiabetic drugs. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 324, 428-435	12.8	30

54	Modelling for antimicrobial activities of ionic liquids towards <i>Escherichia coli</i> , <i>Staphylococcus aureus</i> and <i>Candida albicans</i> using linear free energy relationship descriptors. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 311, 168-75	12.8	29
53	Ultimate biodegradability and ecotoxicity of orally administered antidiabetic drugs. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 333, 154-161	12.8	27
52	Membrane partitioning of ionic liquid cations, anions and ion pairs□□Estimating the bioconcentration potential of organic ions. <i>Environmental Pollution</i> , <b>2017</b> , 228, 378-389	9.3	26
51	Structure-activity relationships for the impact of selected isothiazol-3-one biocides on glutathione metabolism and glutathione reductase of the human liver cell line Hep G2. <i>Toxicology</i> , <b>2008</b> , 246, 203-124.4	12.4	26
50	Toxicity of dimercaptosuccinate-coated and un-functionalized magnetic iron oxide nanoparticles towards aquatic organisms. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 754-767	7.1	26
49	Testing True Choline Ionic Liquid Biocompatibility from a Biotechnological Standpoint. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 8302-8309	8.3	24
48	Ecotoxicity screening evaluation of selected pharmaceuticals and their transformation products towards various organisms. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 26103-26114	5.1	22
47	The green platform molecule gamma-valerolactone □□ecotoxicity, biodegradability, solvent properties, and potential applications. <i>Green Chemistry</i> , <b>2021</b> , 23, 2962-2976	10	21
46	Readily biodegradable and low-toxic biocompatible ionic liquids for cellulose processing. <i>RSC Advances</i> , <b>2016</b> , 6, 87325-87331	3.7	20
45	Mixture toxicity of flubendazole and fenbendazole to <i>Daphnia magna</i> . <i>International Journal of Hygiene and Environmental Health</i> , <b>2017</b> , 220, 575-582	6.9	19
44	In silico prediction of linear free energy relationship descriptors of neutral and ionic compounds. <i>RSC Advances</i> , <b>2015</b> , 5, 80634-80642	3.7	19
43	Analyzing cytotoxic effects of selected isothiazol-3-one biocides using the toxic ratio concept and structure-activity relationship considerations. <i>Chemical Research in Toxicology</i> , <b>2009</b> , 22, 1954-61	4	19
42	Ionic liquid long-term stability assessment and its contribution to toxicity and biodegradation study of untreated and altered ionic liquids. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2012</b> , 226, 903-922	1.4	18
41	Bacterial consortium and axenic cultures isolated from activated sewage sludge for biodegradation of imidazolium-based ionic liquid. <i>International Journal of Environmental Science and Technology</i> , <b>2014</b> , 11, 1919-1926	3.3	17
40	Phase-out-compliant fluorosurfactants: unique methimazolium derivatives including room temperature ionic liquids. <i>Green Chemistry</i> , <b>2017</b> , 19, 3225-3237	10	15
39	Preliminary toxicity and ecotoxicity assessment of methyltrioxorhenium and its derivatives. <i>Green Chemistry</i> , <b>2015</b> , 17, 1136-1144	10	14
38	Validation and updating of QSAR models for partitioning coefficients of ionic liquids in octanol-water and development of a new LFER model. <i>Science of the Total Environment</i> , <b>2018</b> , 633, 920-928	10.2	14
37	Design of Inherently Safer Ionic Liquids: Toxicology and Biodegradation <b>2010</b> , 233		13

36	Interaction of dodecaborate cluster compounds on hydrophilic column materials in water. <i>Journal of Chromatography A</i> , <b>2012</b> , 1256, 98-104	4.5	12
35	Detection of bioactive exometabolites produced by the filamentous marine cyanobacterium <i>Geitlerinema</i> sp. <i>Marine Biotechnology</i> , <b>2012</b> , 14, 436-45	3.4	12
34	Hazard assessment of quinaldine-, alkylcarbazole-, benzene- and toluene-based liquid organic hydrogen carrier (LOHCs) systems. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 366-383	35.4	11
33	Determination of LFER descriptors of 30 cations of ionic liquids--progress in understanding their molecular interaction potentials. <i>ChemPhysChem</i> , <b>2012</b> , 13, 780-7	3.2	11
32	Ion chromatographic determination of structurally varied ionic liquid cations and anions--reliable analytical methodology applicable to technical and natural matrices. <i>Analytical Methods</i> , <b>2011</b> , 3, 919	3.2	11
31	Catalytically active perrhenate based ionic liquids: a preliminary ecotoxicity and biodegradability assessment. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 5431-5436	3.6	10
30	Mobility and biodegradability of an imidazolium based ionic liquid in soil and soil amended with waste sewage sludge. <i>Environmental Sciences: Processes and Impacts</i> , <b>2015</b> , 17, 1462-9	4.3	10
29	Identification of Selected Antibiotic Resistance Genes in Two Different Wastewater Treatment Plant Systems in Poland: A Preliminary Study. <i>Molecules</i> , <b>2020</b> , 25,	4.8	10
28	Biodegradation potential of cyano-based ionic liquid anions in a culture of <i>Cupriavidus</i> spp. and their in vitro enzymatic hydrolysis by nitrile hydratase. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 9495-505	5.1	10
27	Thinking in Terms of Structure-Activity-Relationships (T-SAR): A Tool to Better Understand Nanofiltration Membranes. <i>Membranes</i> , <b>2011</b> , 1, 162-83	3.8	10
26	Biologische Abbaubarkeit von ionischen Flüssigkeiten -- Testverfahren und strukturelles Design. <i>Chemie-Ingenieur-Technik</i> , <b>2011</b> , 83, 1454-1467	0.8	10
25	Catalytic wet peroxide oxidation of imidazolium-based ionic liquids: Catalyst stability and biodegradability enhancement. <i>Chemical Engineering Journal</i> , <b>2019</b> , 376, 120431	14.7	10
24	Consequences of a Chronic Exposure of Cultured Brain Astrocytes to the Anti-Retroviral Drug Efavirenz and its Primary Metabolite 8-Hydroxy Efavirenz. <i>Neurochemical Research</i> , <b>2016</b> , 41, 3278-3288	4.6	9
23	Preliminary study on suitability of ionic liquids as potential passive-sampling media of polyaromatic-hydrocarbon (PAH) analyses in water. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 3531-6	4.4	8
22	Biodegradable Surface Active D-Glucose Based Quaternary Ammonium Ionic Liquids in the Solventless Synthesis of Chloroprene. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> ,	8.3	8
21	Quantitative analysis of molecular interaction potentials of ionic liquid anions using multi-functionalized stationary phases in HPLC. <i>ChemPhysChem</i> , <b>2014</b> , 15, 2351-8	3.2	8
20	Permeation through nanochannels: revealing fast kinetics. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 454131	1.8	8
19	In vitro methods for predicting the bioconcentration of xenobiotics in aquatic organisms. <i>Science of the Total Environment</i> , <b>2020</b> , 739, 140261	10.2	7

18	Interaction of organic compounds and boron clusters with new silica matrices containing the phosphatidylcholine headgroup. <i>Analytical Methods</i> , <b>2014</b> , 6, 3045-3055	3.2	7
17	Toward the Proactive Design of Sustainable Chemicals: Ionic Liquids as a Prime Example. <i>Chemical Reviews</i> , <b>2021</b> , 121, 13132-13173	68.1	7
16	Structural and Ecotoxicological Profile of N-Alkoxymorpholinium-Based Ionic Liquids. <i>Heterocycles</i> , <b>2015</b> , 90, 1018	0.8	5
15	Microplastics from textile origin Emission and reduction measures. <i>Green Chemistry</i> , <b>2021</b> , 23, 5247-5271	10	5
14	Toxicity of a Quinaldine-Based Liquid Organic Hydrogen Carrier (LOHC) System toward Soil Organisms <i>Arthrobacter globiformis</i> and <i>Folsomia candida</i> . <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 258-265	10.3	5
13	(Eco)Toxicology and Biodegradation of Ionic Liquids <b>2015</b> , 189-208		4
12	Anthelmintics in the Aquatic Environment: A New Analytical Approach. <i>Current Analytical Chemistry</i> , <b>2016</b> , 12, 227-236	1.7	4
11	New bifunctional ionic liquid-based plant systemic acquired resistance (SAR) inducers with an improved environmental hazard profile. <i>Green Chemistry</i> , <b>2021</b> , 23, 5138-5149	10	4
10	The influence of textile finishing agents on the biodegradability of shed fibres. <i>Green Chemistry</i> , <b>2021</b> , 23, 5212-5221	10	4
9	Sketching a Suitable Immobilization Strategy for Ionic Liquid Removal in a Fixed-Bed Bioreactor. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 4307-4314	8.3	3
8	Environmental contamination by microplastics originating from textiles: emission, transport, fate and toxicity. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 128453	12.8	2
7	Toxicity Assessment of Molecular Rhenium(VII) Epoxidation Catalysts <b>2016</b> , 1-14		1
6	Mobility and adsorption of liquid organic hydrogen carriers (LOHCs) in soils Environmental hazard perspective. <i>Green Chemistry</i> , <b>2020</b> , 22, 6519-6530	10	1
5	Effects of five sulphonamides on duckweed ( <i>Lemna minor</i> ) after prolonged exposure time and their dependency on photoradiation. <i>Science of the Total Environment</i> , <b>2018</b> , 618, 952-960	10.2	1
4	Interaction of ionic liquids with human serum albumin in the view of bioconcentration: a preliminary study. <i>Chemical Papers</i> ,1	1.9	0
3	Mixture toxicity of six pharmaceuticals towards <i>Aliivibrio fischeri</i> , <i>Daphnia magna</i> , and <i>Lemna minor</i> .. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 29, 26977	5.1	0
2	Treatment of electropolishing industrial wastewater and its impact on the immobilisation of <i>Daphnia magna</i> .. <i>Environmental Research</i> , <b>2022</b> , 212, 113438	7.9	0
1	Bacterial Consortium and Axenic Cultures Isolated from Activated Sewage Sludge for Biodegradation of Imidazolium-based Ionic Liquid <b>2016</b> , 201-216		

