

Stefan Stolte

List of Publications by Year in Descending Order

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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.

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	Environmental contamination by microplastics originating from textiles: emission, transport, fate and toxicity. <i>Journal of Hazardous Materials</i> , 2022 , 128453	12.8	2
106	Treatment of electropolishing industrial wastewater and its impact on the immobilisation of <i>Daphnia magna</i> .. <i>Environmental Research</i> , 2022 , 212, 113438	7.9	0
105	New bifunctional ionic liquid-based plant systemic acquired resistance (SAR) inducers with an improved environmental hazard profile. <i>Green Chemistry</i> , 2021 , 23, 5138-5149	10	4
104	Microplastics from textile origin: Emission and reduction measures. <i>Green Chemistry</i> , 2021 , 23, 5247-5271	10	5
103	The influence of textile finishing agents on the biodegradability of shed fibres. <i>Green Chemistry</i> , 2021 , 23, 5212-5221	10	4
102	Review of the toxic effects of ionic liquids. <i>Science of the Total Environment</i> , 2021 , 786, 147309	10.2	38
101	Toward the Proactive Design of Sustainable Chemicals: Ionic Liquids as a Prime Example. <i>Chemical Reviews</i> , 2021 , 121, 13132-13173	68.1	7
100	The green platform molecule gamma-valerolactone: Ecotoxicity, biodegradability, solvent properties, and potential applications. <i>Green Chemistry</i> , 2021 , 23, 2962-2976	10	21
99	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> , 2021 , 29, 26977	5.1	0
98	Ecotoxicity screening evaluation of selected pharmaceuticals and their transformation products towards various organisms. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 26103-26114	5.1	22
97	In vitro methods for predicting the bioconcentration of xenobiotics in aquatic organisms. <i>Science of the Total Environment</i> , 2020 , 739, 140261	10.2	7
96	Identification of Selected Antibiotic Resistance Genes in Two Different Wastewater Treatment Plant Systems in Poland: A Preliminary Study. <i>Molecules</i> , 2020 , 25,	4.8	10
95	Biodegradable Surface Active D-Glucose Based Quaternary Ammonium Ionic Liquids in the Solventless Synthesis of Chloroprene. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 ,	8.3	8
94	Mobility and adsorption of liquid organic hydrogen carriers (LOHCs) in soils: Environmental hazard perspective. <i>Green Chemistry</i> , 2020 , 22, 6519-6530	10	1
93	Hazard assessment of quinaldine-, alkylcarbazole-, benzene- and toluene-based liquid organic hydrogen carrier (LOHCs) systems. <i>Energy and Environmental Science</i> , 2019 , 12, 366-383	35.4	11
92	Sketching a Suitable Immobilization Strategy for Ionic Liquid Removal in a Fixed-Bed Bioreactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4307-4314	8.3	3
91	Catalytic wet peroxide oxidation of imidazolium-based ionic liquids: Catalyst stability and biodegradability enhancement. <i>Chemical Engineering Journal</i> , 2019 , 376, 120431	14.7	10

90	Acute Aquatic Toxicity and Biodegradability of Fluorinated Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3733-3741	8.3	39
89	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> , 2018 , 633, 920-928	10.2	14
88	Changing environments and biomolecule coronas: consequences and challenges for the design of environmentally acceptable engineered nanoparticles. <i>Green Chemistry</i> , 2018 , 20, 4133-4168	10	58
87	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 & Technology</i> , 2018 , 52, 258-265	10.3	5
86	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> , 2018 , 618, 952-960	10.2	1
85	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> , 2017 , 173, 542-550	8.4	31
84	Mixture toxicity of flubendazole and fenbendazole to <i>Daphnia magna</i> . <i>International Journal of Hygiene and Environmental Health</i> , 2017 , 220, 575-582	6.9	19
83	Membrane partitioning of ionic liquid cations, anions and ion pairs—Estimating the bioconcentration potential of organic ions. <i>Environmental Pollution</i> , 2017 , 228, 378-389	9.3	26
82	Phase-out-compliant fluorosurfactants: unique methimazolium derivatives including room temperature ionic liquids. <i>Green Chemistry</i> , 2017 , 19, 3225-3237	10	15
81	Ultimate biodegradability and ecotoxicity of orally administered antidiabetic drugs. <i>Journal of Hazardous Materials</i> , 2017 , 333, 154-161	12.8	27
80	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> , 2017 , 189, 689-698	8.4	30
79	Testing True Choline Ionic Liquid Biocompatibility from a Biotechnological Standpoint. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8302-8309	8.3	24
78	Primary degradation of antidiabetic drugs. <i>Journal of Hazardous Materials</i> , 2017 , 324, 428-435	12.8	30
77	Toxicity Assessment of Molecular Rhenium(VII) Epoxidation Catalysts 2016 , 1-14		1
76	Comprehensive approach for predicting toxicological effects of ionic liquids on several biological systems using unified descriptors. <i>Scientific Reports</i> , 2016 , 6, 33403	4.9	31
75	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> , 2016 , 308, 179-86	12.8	57
74	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> , 2016 , 311, 168-75	12.8	29
73	Anthelmintics in the Aquatic Environment: A New Analytical Approach. <i>Current Analytical Chemistry</i> , 2016 , 12, 227-236	1.7	4

72	Bacterial Consortium and Axenic Cultures Isolated from Activated Sewage Sludge for Biodegradation of Imidazolium-based Ionic Liquid 2016 , 201-216		
71	Toxicity of dimercaptosuccinate-coated and un-functionalized magnetic iron oxide nanoparticles towards aquatic organisms. <i>Environmental Science: Nano</i> , 2016 , 3, 754-767	7.1	26
70	Readily biodegradable and low-toxic biocompatible ionic liquids for cellulose processing. <i>RSC Advances</i> , 2016 , 6, 87325-87331	3.7	20
69	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> , 2016 , 41, 3278-3288	4.6	9
68	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> , 2015 , 407, 3531-6	4.4	8
67	The nanoparticle biomolecule corona: lessons learned - challenge accepted?. <i>Chemical Society Reviews</i> , 2015 , 44, 6094-121	58.5	427
66	Catalytically active perrhenate based ionic liquids: a preliminary ecotoxicity and biodegradability assessment. <i>New Journal of Chemistry</i> , 2015 , 39, 5431-5436	3.6	10
65	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> , 2015 , 17, 1462-9	4.3	10
64	Environmental and health impact assessment of Liquid Organic Hydrogen Carrier (LOHC) systems – challenges and preliminary results. <i>Energy and Environmental Science</i> , 2015 , 8, 1035-1045	35.4	134
63	Toxicity of anthelmintic drugs (fenbendazole and flubendazole) to aquatic organisms. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 2566-73	5.1	38
62	In silico prediction of linear free energy relationship descriptors of neutral and ionic compounds. <i>RSC Advances</i> , 2015 , 5, 80634-80642	3.7	19
61	A comparative study of electrochemical degradation of imidazolium and pyridinium ionic liquids: A reaction pathway and ecotoxicity evaluation. <i>Separation and Purification Technology</i> , 2015 , 156, 522-534	8.3	33
60	Structural and Ecotoxicological Profile of N-Alkoxy-morpholinium-Based Ionic Liquids. <i>Heterocycles</i> , 2015 , 90, 1018	0.8	5
59	Preliminary toxicity and ecotoxicity assessment of methyltrioxorhenium and its derivatives. <i>Green Chemistry</i> , 2015 , 17, 1136-1144	10	14
58	(Eco)Toxicology and Biodegradation of Ionic Liquids 2015 , 189-208		4
57	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> , 2014 , 11, 1919-1926	3.3	17
56	Biodegradability of 27 pyrrolidinium, morpholinium, piperidinium, imidazolium and pyridinium ionic liquid cations under aerobic conditions. <i>Green Chemistry</i> , 2014 , 16, 2174-2184	10	95
55	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> , 2014 , 493, 1006-13	10.2	60

54	Quantitative analysis of molecular interaction potentials of ionic liquid anions using multi-functionalized stationary phases in HPLC. <i>ChemPhysChem</i> , 2014 , 15, 2351-8	3.2	8
53	Interaction of organic compounds and boron clusters with new silica matrices containing the phosphatidylcholine headgroup. <i>Analytical Methods</i> , 2014 , 6, 3045-3055	3.2	7
52	Electrochemical degradation of sulfonamides at BDD electrode: kinetics, reaction pathway and eco-toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2014 , 280, 579-87	12.8	121
51	Beta-blockers in the environment: part I. Mobility and hydrolysis study. <i>Science of the Total Environment</i> , 2014 , 493, 1112-21	10.2	69
50	Beta-blockers in the environment: part II. Ecotoxicity study. <i>Science of the Total Environment</i> , 2014 , 493, 1122-6	10.2	70
49	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> , 2014 , 21, 9495-505	5.1	10
48	Toxicity and biodegradability of dicationic ionic liquids. <i>RSC Advances</i> , 2014 , 4, 5198	3.7	71
47	Ecotoxicity of artificial sweeteners and stevioside. <i>Environment International</i> , 2013 , 60, 123-7	12.9	45
46	(Eco)toxicity and biodegradability of selected protic and aprotic ionic liquids. <i>Journal of Hazardous Materials</i> , 2013 , 261, 99-105	12.8	169
45	Aquatic toxicity of four veterinary drugs commonly applied in fish farming and animal husbandry. <i>Chemosphere</i> , 2013 , 92, 1253-9	8.4	66
44	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> , 2013 , 47, 2921-8	12.5	52
43	Synthesis, Toxicity, and Biodegradation of Tunable Aryl Alkyl Ionic Liquids (TAALs). <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 410-418	8.3	38
42	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> , 2013 , 24, 863-82	3.5	45
41	Hydrolysis of sulphonamides in aqueous solutions. <i>Journal of Hazardous Materials</i> , 2012 , 221-222, 264-74	12.8	104
40	Determination of LFER descriptors of 30 cations of ionic liquids--progress in understanding their molecular interaction potentials. <i>ChemPhysChem</i> , 2012 , 13, 780-7	3.2	11
39	Hydrolysis study of fluoroorganic and cyano-based ionic liquid anions [consequences for operational safety and environmental stability. <i>Green Chemistry</i> , 2012 , 14, 2474	10	33
38	Ionic liquids as lubricants or lubrication additives: an ecotoxicity and biodegradability assessment. <i>Chemosphere</i> , 2012 , 89, 1135-41	8.4	103
37	Interaction of dodecaborate cluster compounds on hydrophilic column materials in water. <i>Journal of Chromatography A</i> , 2012 , 1256, 98-104	4.5	12

36	Biodegradability of fluoroorganic and cyano-based ionic liquid anions under aerobic and anaerobic conditions. <i>Green Chemistry</i> , 2012 , 14, 410-418	10	36
35	Electrochemical oxidation of imidazolium-based ionic liquids: The influence of anions. <i>Chemical Engineering Journal</i> , 2012 , 198-199, 338-345	14.7	39
34	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> , 2012 , 101, 26-33	8.3	43
33	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> , 2012 , 226, 903-922	1.4	18
32	(Eco)toxicity of fluoro-organic and cyano-based ionic liquid anions. <i>Chemical Communications</i> , 2012 , 48, 9382-4	5.8	53
31	Detection of bioactive exometabolites produced by the filamentous marine cyanobacterium <i>Geitlerinema</i> sp. <i>Marine Biotechnology</i> , 2012 , 14, 436-45	3.4	12
30	Ion chromatographic determination of structurally varied ionic liquid cations and anions – reliable analytical methodology applicable to technical and natural matrices. <i>Analytical Methods</i> , 2011 , 3, 919	3.2	11
29	Ecotoxicity evaluation of selected sulfonamides. <i>Chemosphere</i> , 2011 , 85, 928-33	8.4	142
28	Thinking in Terms of Structure-Activity-Relationships (T-SAR): A Tool to Better Understand Nanofiltration Membranes. <i>Membranes</i> , 2011 , 1, 162-83	3.8	10
27	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> , 2011 , 195, 378-82	12.8	38
26	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> , 2011 , 115, 6040-50	3.4	49
25	Biologische Abbaubarkeit von ionischen Flüssigkeiten – Testverfahren und strukturelles Design. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1454-1467	0.8	10
24	Synthesis, toxicity, biodegradability and physicochemical properties of 4-benzyl-4-methylmorpholinium-based ionic liquids. <i>Green Chemistry</i> , 2011 , 13, 2901	10	77
23	The Biodegradation of Ionic Liquids - the View from a Chemical Structure Perspective. <i>Current Organic Chemistry</i> , 2011 , 15, 1946-1973	1.7	94
22	Stability of Ionic Liquids in Application Conditions. <i>Current Organic Chemistry</i> , 2011 , 15, 1974-1991	1.7	86
21	Permeation through nanochannels: revealing fast kinetics. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 454131	1.8	8
20	Design of Inherently Safer Ionic Liquids: Toxicology and Biodegradation 2010 , 233		13
19	Antimicrobial and surface activity of 1-alkyl-3-methylimidazolium derivatives. <i>Green Chemistry</i> , 2010 , 12, 593	10	204

18	Anaerobic biodegradability of ionic liquid cations under denitrifying conditions. <i>Green Chemistry</i> , 2010 , 12, 620	10	42
17	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> , 2009 , 18, 197-203	2.9	63
16	Identification of ionic liquid breakdown products in an advanced oxidation system. <i>Journal of Hazardous Materials</i> , 2009 , 171, 478-83	12.8	68
15	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> , 2009 , 22, 1954-61	4	19
14	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> , 2008 , 10, 584	10	83
13	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> , 2008 , 10, 784	10	57
12	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> , 2008 , 10, 47-58	10	163
11	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> , 2008 , 10, 214-224	10	206
10	Ionic liquid effects on the activity of monooxygenase P450 BM-3. <i>Green Chemistry</i> , 2008 , 10, 117-123	10	45
9	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> , 2008 , 246, 203-124	4.4	26
8	Effects of different head groups and functionalised side chains on the cytotoxicity of ionic liquids. <i>Green Chemistry</i> , 2007 , 9, 760-767	10	193
7	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> , 2007 , 9, 1198	10	288
6	Lipophilicity parameters for ionic liquid cations and their correlation to in vitro cytotoxicity. <i>Ecotoxicology and Environmental Safety</i> , 2007 , 67, 430-8	7	286
5	Design of sustainable chemical products--the example of ionic liquids. <i>Chemical Reviews</i> , 2007 , 107, 2183-2206	38.6	695
4	Effects of different head groups and functionalised side chains on the aquatic toxicity of ionic liquids. <i>Green Chemistry</i> , 2007 , 9, 1170	10	377
3	Anion effects on the cytotoxicity of ionic liquids. <i>Green Chemistry</i> , 2006 , 8, 621	10	275
2	Progress in evaluation of risk potential of ionic liquids as basis for an eco-design of sustainable products. <i>Green Chemistry</i> , 2005 , 7, 362	10	199
1	Interaction of ionic liquids with human serum albumin in the view of bioconcentration: a preliminary study. <i>Chemical Papers</i> , 2005 , 59, 101-106	1.9	0

