Stefan Stolte

List of Publications by Year
in descending order

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107 papers	8,118 citations	57719 44 h-index	48277 88 g-index
114 all docs	114 docs citations	114 times ranked	7843 citing authors

#	Article	IF	Citations
1	Interaction of ionic liquids with human serum albumin in the view of bioconcentration: a preliminary study. Chemical Papers, 2022, 76, 2405-2417.	1.0	9
2	Environmental contamination by microplastics originating from textiles: Emission, transport, fate and toxicity. Journal of Hazardous Materials, 2022, 430, 128453.	6.5	23
3	Mixture toxicity of six pharmaceuticals towards Aliivibrio fischeri, Daphnia magna, and Lemna minor. Environmental Science and Pollution Research, 2022, 29, 26977-26991.	2.7	5
4	Treatment of electropolishing industrial wastewater and its impact on the immobilisation of Daphnia magna. Environmental Research, 2022, 212, 113438.	3.7	3
5	Modification of slow sand filtration of secondary effluents by electric fields: electrokinetics and influence factors. Journal of Water Supply: Research and Technology - AQUA, 2022, 71, 697-708.	0.6	0
6	New bifunctional ionic liquid-based plant systemic acquired resistance (SAR) inducers with an improved environmental hazard profile. Green Chemistry, 2021, 23, 5138-5149.	4.6	13
7	Microplastics from textile origin â€“ emission and reduction measures. Green Chemistry, 2021, 23, 5247-5271.	4.6	21
8	The influence of textile finishing agents on the biodegradability of shed fibres. Green Chemistry, 2021, 23, 5212-5221.	4.6	23
9	Review of the toxic effects of ionic liquids. Science of the Total Environment, 2021, 786, 147309.	3.9	135
10	Toward the Proactive Design of Sustainable Chemicals: Ionic Liquids as a Prime Example. Chemical Reviews, 2021, 121, 13132-13173.	23.0	63
11	The green platform molecule gamma-valerolactone â€“ ecotoxicity, biodegradability, solvent properties, and potential applications. Green Chemistry, 2021, 23, 2962-2976.	4.6	76
12	Mobility and adsorption of liquid organic hydrogen carriers (LOHCs) in soils â€“ environmental hazard perspective. Green Chemistry, 2020, 22, 6519-6530.	4.6	6
13	Ecotoxicity screening evaluation of selected pharmaceuticals and their transformation products towards various organisms. Environmental Science and Pollution Research, 2020, 27, 26103-26114.	2.7	41
14	In vitro methods for predicting the bioconcentration of xenobiotics in aquatic organisms. Science of the Total Environment, 2020, 739, 140261.	3.9	8
15	Identification of Selected Antibiotic Resistance Genes in Two Different Wastewater Treatment Plant Systems in Poland: A Preliminary Study. Molecules, 2020, 25, 2851.	1.7	20
16	Ionic Liquids (ILs) with Reduced Hazard and Risk, How to Design, and Future Challenges. , 2020, , 1-9.		0
17	Hazard assessment of quinaldine-, alkylcarbazole-, benzene- and toluene-based liquid organic hydrogen carrier (LOHCs) systems. Energy and Environmental Science, 2019, 12, 366-383.	15.6	36
18	Sketching a Suitable Immobilization Strategy for Ionic Liquid Removal in a Fixed-Bed Bioreactor. ACS Sustainable Chemistry and Engineering, 2019, 7, 4307-4314.	3.2	3

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19	Catalytic wet peroxide oxidation of imidazolium-based ionic liquids: Catalyst stability and biodegradability enhancement. Chemical Engineering Journal, 2019, 376, 120431.	6.6	13
20	Acute Aquatic Toxicity and Biodegradability of Fluorinated Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 3733-3741.	3.2	57
21	Quantitative Structure-Activity Relationships to Estimate Toxicity of Ionic Liquids (ILs). , 2019, , 1-16.		0
22	Validation and updating of QSAR models for partitioning coefficients of ionic liquids in octanol-water and development of a new LFER model. Science of the Total Environment, 2018, 633, 920-928.	3.9	17
23	Toxicity of a Quinaldine-Based Liquid Organic Hydrogen Carrier (LOHC) System toward Soil Organisms Arthrobacter globiformis and Folsomia candida. Environmental Science & Technology, 2018, 52, 258-265.	4.6	5
24	Effects of five sulphonamides on duckweed (Lemna minor) after prolonged exposure time and their dependency on photoradiation. Science of the Total Environment, 2018, 618, 952-960.	3.9	3
25	Changing environments and biomolecule coronas: consequences and challenges for the design of environmentally acceptable engineered nanoparticles. Green Chemistry, 2018, 20, 4133-4168.	4.6	81
26	Mixture toxicity of six sulfonamides and their two transformation products to green algae Scenedesmus vacuolatus and duckweed Lemna minor. Chemosphere, 2017, 173, 542-550.	4.2	43
27	Mixture toxicity of flubendazole and fenbendazole to Daphnia magna. International Journal of Hygiene and Environmental Health, 2017, 220, 575-582.	2.1	28
28	Membrane partitioning of ionic liquid cations, anions and ion pairsÂâ€“ÂEstimating the bioconcentration potential of organic ions. Environmental Pollution, 2017, 228, 378-389.	3.7	44
29	Phase-out-compliant fluorosurfactants: unique methimazolium derivatives including room temperature ionic liquids. Green Chemistry, 2017, 19, 3225-3237.	4.6	22
30	Ultimate biodegradability and ecotoxicity of orally administered antidiabetic drugs. Journal of Hazardous Materials, 2017, 333, 154-161.	6.5	41
31	Acute aquatic toxicity assessment of six anti-cancer drugs and one metabolite using biotest battery â€“ Biological effects and stability under test conditions. Chemosphere, 2017, 189, 689-698.	4.2	38
32	Testing True Choline Ionic Liquid Biocompatibility from a Biotechnological Standpoint. ACS Sustainable Chemistry and Engineering, 2017, 5, 8302-8309.	3.2	34
33	Primary degradation of antidiabetic drugs. Journal of Hazardous Materials, 2017, 324, 428-435.	6.5	40
34	Toxicity of dimercaptosuccinate-coated and un-functionalized magnetic iron oxide nanoparticles towards aquatic organisms. Environmental Science: Nano, 2016, 3, 754-767.	2.2	35
35	Readily biodegradable and low-toxic biocompatible ionic liquids for cellulose processing. RSC Advances, 2016, 6, 87325-87331.	1.7	27
36	Consequences of a Chronic Exposure of Cultured Brain Astrocytes to the Anti-Retroviral Drug Efavirenz and its Primary Metabolite 8-Hydroxy Efavirenz. Neurochemical Research, 2016, 41, 3278-3288.	1.6	11

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37	Comprehensive approach for predicting toxicological effects of ionic liquids on several biological systems using unified descriptors. Scientific Reports, 2016, 6, 33403.	1.6	35
38	The influence of salinity on the toxicity of selected sulfonamides and trimethoprim towards the green algae Chlorella vulgaris. Journal of Hazardous Materials, 2016, 308, 179-186.	6.5	72
39	Modelling for antimicrobial activities of ionic liquids towards Escherichia coli, Staphylococcus aureus and Candida albicans using linear free energy relationship descriptors. Journal of Hazardous Materials, 2016, 311, 168-175.	6.5	37
40	Anthelmintics in the Aquatic Environment: A New Analytical Approach. Current Analytical Chemistry, 2016, 12, 227-236.	0.6	5
41	Bacterial Consortium and Axenic Cultures Isolated from Activated Sewage Sludge for Biodegradation of Imidazolium-based Ionic Liquid. , 2016, , 201-216.		0
42	Preliminary study on suitability of ionic liquids as potential passive-sampling media of polyaromatic-hydrocarbon (PAH) analyses in water. Analytical and Bioanalytical Chemistry, 2015, 407, 3531-3536.	1.9	8
43	The nanoparticle biomolecule corona: lessons learned â€“ challenge accepted?. Chemical Society Reviews, 2015, 44, 6094-6121.	18.7	539
44	Catalytically active perrhenate based ionic liquids: a preliminary ecotoxicity and biodegradability assessment. New Journal of Chemistry, 2015, 39, 5431-5436.	1.4	13
45	Mobility and biodegradability of an imidazolium based ionic liquid in soil and soil amended with waste sewage sludge. Environmental Sciences: Processes and Impacts, 2015, 17, 1462-1469.	1.7	11
46	Environmental and health impact assessment of Liquid Organic Hydrogen Carrier (LOHC) systems â€“ challenges and preliminary results. Energy and Environmental Science, 2015, 8, 1035-1045.	15.6	188
47	Toxicity of anthelmintic drugs (fenbendazole and flubendazole) to aquatic organisms. Environmental Science and Pollution Research, 2015, 22, 2566-2573.	2.7	55
48	In silico prediction of linear free energy relationship descriptors of neutral and ionic compounds. RSC Advances, 2015, 5, 80634-80642.	1.7	25
49	A comparative study of electrochemical degradation of imidazolium and pyridinium ionic liquids: A reaction pathway and ecotoxicity evaluation. Separation and Purification Technology, 2015, 156, 522-534.	3.9	38
50	Structural and Ecotoxicological Profile of N-Alkoxymorpholinium-Based Ionic Liquids. Heterocycles, 2015, 90, 1018.	0.4	6
51	Preliminary toxicity and ecotoxicity assessment of methyltrioxorhenium and its derivatives. Green Chemistry, 2015, 17, 1136-1144.	4.6	16
52	Biodegradation potential of cyano-based ionic liquid anions in a culture of Cupriavidus spp. and their in vitro enzymatic hydrolysis by nitrile hydratase. Environmental Science and Pollution Research, 2014, 21, 9495-9505.	2.7	12
53	Toxicity and biodegradability of dicationic ionic liquids. RSC Advances, 2014, 4, 5198.	1.7	102
54	Bacterial consortium and axenic cultures isolated from activated sewage sludge for biodegradation of imidazolium-based ionic liquid. International Journal of Environmental Science and Technology, 2014, 11, 1919-1926.	1.8	19

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55	Biodegradability of 27 pyrrolidinium, morpholinium, piperidinium, imidazolium and pyridinium ionic liquid cations under aerobic conditions. Green Chemistry, 2014, 16, 2174-2184.	4.6	121
56	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. Science of the Total Environment, 2014, 493, 1006-1013.	3.9	79
57	Quantitative Analysis of Molecular Interaction Potentials of Ionic Liquid Anions Using Multiâ€Functionalized Stationary Phases in HPLC. ChemPhysChem, 2014, 15, 2351-2358.	1.0	9
58	Interaction of organic compounds and boron clusters with new silica matrices containing the phosphatidylcholine headgroup. Analytical Methods, 2014, 6, 3045-3055.	1.3	8
59	Electrochemical degradation of sulfonamides at BDD electrode: Kinetics, reaction pathway and eco-toxicity evaluation. Journal of Hazardous Materials, 2014, 280, 579-587.	6.5	150
60	Beta-blockers in the environment: Part I. Mobility and hydrolysis study. Science of the Total Environment, 2014, 493, 1112-1121.	3.9	83
61	Beta-blockers in the environment: Part II. Ecotoxicity study. Science of the Total Environment, 2014, 493, 1122-1126.	3.9	92
62	Ecotoxicity of artificial sweeteners and stevioside. Environment International, 2013, 60, 123-127.	4.8	56
63	(Eco)toxicity and biodegradability of selected protic and aprotic ionic liquids. Journal of Hazardous Materials, 2013, 261, 99-105.	6.5	209
64	Aquatic toxicity of four veterinary drugs commonly applied in fish farming and animal husbandry. Chemosphere, 2013, 92, 1253-1259.	4.2	88
65	Toxicity of ionic liquid cations and anions towards activatedÂsewage sludge organisms from different sourcesÂâ€"ÂConsequences for biodegradation testing andÂwastewater treatment plant operation. Water Research, 2013, 47, 2921-2928.	5.3	58
66	Synthesis, Toxicity, and Biodegradation of Tunable Aryl Alkyl Ionic Liquids (TAAILs). ACS Sustainable Chemistry and Engineering, 2013, 1, 410-418.	3.2	42
67	In silicomodelling for predicting the cationic hydrophobicity and cytotoxicity of ionic liquids towards theLeukemiarat cell line,Vibrio fischeriandScenedesmus vacuolatusbased on molecular interaction potentials of ions. SAR and QSAR in Environmental Research, 2013, 24, 863-882.	1.0	51
68	Hydrolysis study of fluoroorganic and cyano-based ionic liquid anions â€" consequences for operational safety and environmental stability. Green Chemistry, 2012, 14, 2474.	4.6	39
69	Ionic liquids as lubricants or lubrication additives: An ecotoxicity and biodegradability assessment. Chemosphere, 2012, 89, 1135-1141.	4.2	123
70	Interaction of dodecaborate cluster compounds on hydrophilic column materials in water. Journal of Chromatography A, 2012, 1256, 98-104.	1.8	13
71	Biodegradability of fluoroorganic and cyano-based ionic liquid anions under aerobic and anaerobic conditions. Green Chemistry, 2012, 14, 410-418.	4.6	39
72	Electrochemical oxidation of imidazolium-based ionic liquids: The influence of anions. Chemical Engineering Journal, 2012, 198-199, 338-345.	6.6	47

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73	Advanced oxidation process for the removal of ionic liquids from water: The influence of functionalized side chains on the electrochemical degradability of imidazolium cations. Separation and Purification Technology, 2012, 101, 26-33.	3.9	44
74	Ionic liquid long-term stability assessment and its contribution to toxicity and biodegradation study of untreated and altered ionic liquids. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2012, 226, 903-922.	1.0	21
75	(Eco)toxicity of fluoro-organic and cyano-based ionic liquid anions. Chemical Communications, 2012, 48, 9382.	2.2	59
76	Detection of Bioactive Exometabolites Produced by the Filamentous Marine Cyanobacterium Geitlerinema sp.. Marine Biotechnology, 2012, 14, 436-445.	1.1	13
77	Hydrolysis of sulphonamides in aqueous solutions. Journal of Hazardous Materials, 2012, 221-222, 264-274.	6.5	136
78	Determination of LFER Descriptors of 30 Cations of Ionic Liquidsâ€"Progress in Understanding Their Molecular Interaction Potentials. ChemPhysChem, 2012, 13, 780-787.	1.0	13
79	Synthesis, toxicity, biodegradability and physicochemical properties of 4-benzyl-4-methylmorpholinium-based ionic liquids. Green Chemistry, 2011, 13, 2901.	4.6	94
80	Ion chromatographic determination of structurally varied ionic liquid cations and anionsâ€"a reliable analytical methodology applicable to technical and natural matrices. Analytical Methods, 2011, 3, 919.	1.3	11
81	Ecotoxicity evaluation of selected sulfonamides. Chemosphere, 2011, 85, 928-933.	4.2	191
82	Thinking in Terms of Structure-Activity-Relationships (T-SAR): A Tool to Better Understand Nanofiltration Membranes. Membranes, 2011, 1, 162-183.	1.4	19
83	Influence of microbial adaption and supplementation of nutrients on the biodegradation of ionic liquids in sewage sludge treatment processes. Journal of Hazardous Materials, 2011, 195, 378-382.	6.5	45
84	Ionic Liquids: Predictions of Physicochemical Properties with Experimental and/or DFT-Calculated LFER Parameters To Understand Molecular Interactions in Solution. Journal of Physical Chemistry B, 2011, 115, 6040-6050.	1.2	58
85	Biodegradability of Ionic Liquids â€" Test Procedures and Structural Design. Chemie-Ingenieur-Technik, 2011, 83, 1454-1467.	0.4	11
86	The Biodegradation of Ionic Liquids - the View from a Chemical Structure Perspective. Current Organic Chemistry, 2011, 15, 1946-1973.	0.9	110
87	Stability of Ionic Liquids in Application Conditions. Current Organic Chemistry, 2011, 15, 1974-1991.	0.9	104
88	Permeation through nanochannels: revealing fast kinetics. Journal of Physics Condensed Matter, 2010, 22, 454131.	0.7	9
89	Antimicrobial and surface activity of 1-alkyl-3-methylimidazolium derivatives. Green Chemistry, 2010, 12, 593.	4.6	243
90	Anaerobic biodegradability of ionic liquid cations under denitrifying conditions. Green Chemistry, 2010, 12, 620.	4.6	46

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91	Ionic liquids in soils: effects of different anion species of imidazolium based ionic liquids on wheat (Triticum aestivum) as affected by different clay minerals and clay concentrations. Ecotoxicology, 2009, 18, 197-203.	1.1	67
92	Identification of ionic liquid breakdown products in an advanced oxidation system. Journal of Hazardous Materials, 2009, 171, 478-483.	6.5	74
93	Analyzing Cytotoxic Effects of Selected Isothiazol-3-one Biocides Using the Toxic Ratio Concept and Structureâˆ'Activity Relationship Considerations. Chemical Research in Toxicology, 2009, 22, 1954-1961.	1.7	25
94	Structureâ€"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. Toxicology, 2008, 246, 203-212.	2.0	29
95	Imidazolium based ionic liquids in soils: effects of the side chain length on wheat (Triticum aestivum) and cress (Lepidium sativum) as affected by different clays and organic matter. Green Chemistry, 2008, 10, 584.	4.6	94
96	Mixture effects and predictability of combination effects of imidazolium based ionic liquids as well as imidazolium based ionic liquids and cadmium on terrestrial plants (Triticum aestivum) and limnic green algae (Scenedesmus vacuolatus). Green Chemistry, 2008, 10, 784.	4.6	63
97	Qualitative and quantitative structure activity relationships for the inhibitory effects of cationic head groups, functionalised side chains and anions of ionic liquids on acetylcholinesterase. Green Chemistry, 2008, 10, 47-58.	4.6	178
98	Primary biodegradation of ionic liquid cations, identification of degradation products of 1-methyl-3-octylimidazolium chloride and electrochemical wastewater treatment of poorly biodegradable compounds. Green Chemistry, 2008, 10, 214-224.	4.6	227
99	Ionic liquid effects on the activity of monooxygenase P450 BM-3. Green Chemistry, 2008, 10, 117-123.	4.6	46
100	Effects of different head groups and functionalised side chains on the cytotoxicity of ionic liquids. Green Chemistry, 2007, 9, 760-767.	4.6	212
101	The influence of anion species on the toxicity of 1-alkyl-3-methylimidazolium ionic liquids observed in an (eco)toxicological test battery. Green Chemistry, 2007, 9, 1198.	4.6	309
102	Lipophilicity parameters for ionic liquid cations and their correlation to in vitro cytotoxicity. Ecotoxicology and Environmental Safety, 2007, 67, 430-438.	2.9	311
103	Design of Sustainable Chemical ProductsThe Example of Ionic Liquids. Chemical Reviews, 2007, 107, 2183-2206.	23.0	756
104	Effects of different head groups and functionalised side chains on the aquatic toxicity of ionic liquids. Green Chemistry, 2007, 9, 1170.	4.6	425
105	Anion effects on the cytotoxicity of ionic liquids. Green Chemistry, 2006, 8, 621.	4.6	312
106	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
107	Biodegradable Surface Active D-Glucose Based Quaternary Ammonium Ionic Liquids in the Solventless Synthesis of Chloroprene. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	10