Johannes Ranke

List of Publications by Year
in descending order

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Version: 2024-02-01

44 papers	5,429 citations	236925 25 h-index	361022 35 g-index
51 all docs	51 docs citations	51 times ranked	4200 citing authors

#	Article	IF	Citations
1	Design of Sustainable Chemical ProductsThe Example of Ionic Liquids. Chemical Reviews, 2007, 107, 2183-2206.	47.7	756
2	Biological effects of imidazolium ionic liquids with varying chain lengths in acute Vibrio fischeri and WST-1 cell viability assays. Ecotoxicology and Environmental Safety, 2004, 58, 396-404.	6.0	541
3	Effects of different head groups and functionalised side chains on the aquatic toxicity of ionic liquids. Green Chemistry, 2007, 9, 1170.	9.0	425
4	How hazardous are ionic liquids? Structureâ€“activity relationships and biological testing as important elements for sustainability evaluationThis work was presented at the Green Solvents for Catalysis Meeting held in Bruchsal, Germany, 13â€“16th October 2002.. Green Chemistry, 2003, 5, 136-142.	9.0	348
5	Micelle formation of imidazolium ionic liquids in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 316, 278-284.	4.7	325
6	Anion effects on the cytotoxicity of ionic liquids. Green Chemistry, 2006, 8, 621.	9.0	312
7	Lipophilicity parameters for ionic liquid cations and their correlation to in vitro cytotoxicity. Ecotoxicology and Environmental Safety, 2007, 67, 430-438.	6.0	311
8	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.	9.0	309
9	Effects of ionic liquids on the acetylcholinesterase â€“ a structureâ€“activity relationship consideration. Green Chemistry, 2004, 6, 286-290.	9.0	229
10	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.	9.0	227
11	Progress in evaluation of risk potential of ionic liquidsâ€”basis for an eco-design of sustainable products. Green Chemistry, 2005, 7, 362.	9.0	215
12	Effects of different head groups and functionalised side chains on the cytotoxicity of ionic liquids. Green Chemistry, 2007, 9, 760-767.	9.0	212
13	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.	9.0	178
14	Purity specification methods for ionic liquids. Green Chemistry, 2008, 10, 1152.	9.0	135
15	Explaining Ionic Liquid Water Solubility in Terms of Cation and Anion Hydrophobicity. International Journal of Molecular Sciences, 2009, 10, 1271-1289.	4.1	123
16	Influence of solution composition and column aging on the reduction of nitroaromatic compounds by zero-valent iron. Chemosphere, 2001, 44, 511-517.	8.2	117
17	Reversed-phase liquid chromatographic method for the determination of selected room-temperature ionic liquid cations. Journal of Chromatography A, 2003, 993, 173-178.	3.7	111
18	Multidimensional risk analysis of antifouling biocides. Environmental Science and Pollution Research, 2000, 7, 105-114.	5.3	91

#	Article	IF	Citations
19	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.	2.6	58
20	Risk assessment of biocides in roof paint. Environmental Science and Pollution Research, 2008, 15, 258-265.	5.3	57
21	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.	2.2	51
22	Structureâ€“activity relationships of pyrithiones â€“ IPC-81 toxicity tests with the antifouling biocide zinc pyrithione and structural analogs. Green Chemistry, 2004, 6, 259-266.	9.0	47
23	Sorption, cellular distribution, and cytotoxicity of imidazolium ionic liquids in mammalian cells â€“ influence of lipophilicity. Toxicological and Environmental Chemistry, 2006, 88, 273-285.	1.2	35
24	Persistence of Antifouling Agents in the Marine Biosphere. Environmental Science & Technology, 2002, 36, 1539-1545.	10.0	34
25	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.	4.2	29
26	Analyzing Cytotoxic Effects of Selected Isothiazol-3-one Biocides Using the Toxic Ratio Concept and Structureâ^'Activity Relationship Considerations. Chemical Research in Toxicology, 2009, 22, 1954-1961.	3.3	25
27	Thinking in Structure-Activity Relationships â€“ A Way Forward Towards Sustainable Chemistry. Clean - Soil, Air, Water, 2007, 35, 399-405.	1.1	20
28	Developing and Disseminating NOP: An Online, Open-Access, Organic Chemistry Teaching Resource To Integrate Sustainability Concepts in the Laboratory. Journal of Chemical Education, 2008, 85, 1000.	2.3	20
29	Comparison of software tools for kinetic evaluation of chemical degradation data. Environmental Sciences Europe, 2018, 30, 17.	5.5	15
30	Determination of LFER Descriptors of 30 Cations of Ionic Liquidsâ€”Progress in Understanding Their Molecular Interaction Potentials. ChemPhysChem, 2012, 13, 780-787.	2.1	13
31	Quantitative Analysis of Molecular Interaction Potentials of Ionic Liquid Anions Using Multiâ€Functionalized Stationary Phases in HPLC. ChemPhysChem, 2014, 15, 2351-2358.	2.1	9
32	Reconsidering environmental effects assessment of chemicals: Proposal for a dynamic testing strategy. Basic and Applied Ecology, 2008, 9, 356-364.	2.7	7
33	NOPâ€“ Ein neues organischchemisches Grundpraktikum: Nachhaltigkeit per Internet. Chemie in Unserer Zeit, 2004, 38, 258-266.	0.1	6
34	Error Models for the Kinetic Evaluation of Chemical Degradation Data. Environments - MDPI, 2019, 6, 124.	3.3	1
35	Taking Kinetic Evaluations of Degradation Data to the Next Level with Nonlinear Mixed-Effects Models. Environments - MDPI, 2021, 8, 71.	3.3	1
36	Risikoanalyse chemischer Produkte. , 1999, , 91-137.		0

#	Article	IF	Citations
37	Integrierte Entwicklung chemischer Produkte. , 1999, , 229-237.		0
38	Nutzen-Risiko-Dialog mit der Gesellschaft. , 1999, , 193-204.		0
39	Risikoanalyse chemischer Prozesse. , 1999, , 139-159.		0
40	Sicherheit und Umweltschutz aus unternehmerischer Sicht. , 1999, , 45-60.		0
41	Ã–kologische und Ã¶konomische Bilanzierung. , 1999, , 63-89.		0
42	Thermische ProzeÃŸsicherheit. , 1999, , 175-192.		0
43	Gesetzgebung fÃ¼r Sicherheit und Umweltschutz. , 1999, , 27-43.		0
44	Technik und Verantwortung. , 1999, , 9-25.		0