Klaus KÃ¼mmerer

List of Publications by Year
in descending order

151 papers	13,822 citations	34016 52 h-index	21474 114 g-index
157 all docs	157 docs citations	157 times ranked	13131 citing authors

#	Article	IF	Citations
1	Antibiotics in the aquatic environment â€“ A review â€“ Part I. Chemosphere, 2009, 75, 417-434.	4.2	3,093
2	Antibiotics in the aquatic environment â€“ A review â€“ Part II. Chemosphere, 2009, 75, 435-441.	4.2	1,071
3	The presence of pharmaceuticals in the environment due to human use â€“ present knowledge and future challenges. Journal of Environmental Management, 2009, 90, 2354-2366.	3.8	979
4	Drugs in the environment: emission of drugs, diagnostic aids and disinfectants into wastewater by hospitals in relation to other sources â€“ a review. Chemosphere, 2001, 45, 957-969.	4.2	918
5	Pharmaceuticals in the Environment. Annual Review of Environment and Resources, 2010, 35, 57-75.	5.6	405
6	Assessment of degradation of 18 antibiotics in the Closed Bottle Test. Chemosphere, 2004, 57, 505-512.	4.2	338
7	Environmental Chemistry of Organosiloxanes. Chemical Reviews, 2015, 115, 466-524.	23.0	231
8	Do cytotoxic chemotherapy drugs discharged into rivers pose a risk to the environment and human health? An overview and UK case study. Journal of Hydrology, 2008, 348, 167-175.	2.3	219
9	Hospital Effluents as a Source of Gadolinium in the Aquatic Environment. Environmental Science & Technology, 2000, 34, 573-577.	4.6	209
10	Biodegradability of the anti-tumour agent ifosfamide and its occurrence in hospital effluents and communal sewage. Water Research, 1997, 31, 2705-2710.	5.3	189
11	Sustainable from the very beginning: rational design of molecules by life cycle engineering as an important approach for green pharmacy and green chemistry. Green Chemistry, 2007, 9, 899.	4.6	183
12	Photo-degradation of the antimicrobial ciprofloxacin at high pH: Identification and biodegradability assessment of the primary by-products. Chemosphere, 2009, 76, 487-493.	4.2	167
13	In silico toxicology protocols. Regulatory Toxicology and Pharmacology, 2018, 96, 1-17.	1.3	159
14	A path to clean water. Science, 2018, 361, 222-224.	6.0	151
15	Rethinking chemistry for a circular economy. Science, 2020, 367, 369-370.	6.0	150
16	Biodegradability of organic nanoparticles in the aqueous environment. Chemosphere, 2011, 82, 1387-1392.	4.2	146
17	Trace analysis of the antineoplastics ifosfamide and cyclophosphamide in sewage water by twostep solid-phase extraction and gas chromatography-mass spectrometry. Journal of Chromatography A, 1996, 726, 179-184.	1.8	145
18	Incomplete aerobic degradation of the antidiabetic drug Metformin and identification of the bacterial dead-end transformation product Guanylurea. Chemosphere, 2011, 85, 765-773.	4.2	138

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19	Occurrence of the antidiabetic drug Metformin and its ultimate transformation product Guanylurea in several compartments of the aquatic cycle. Environment International, 2014, 70, 203-212.	4.8	133
20	Analysis of benzalkonium chloride in the effluent from European hospitals by solid-phase extraction and high-performance liquid chromatography with post-column ion-pairing and fluorescence detection. Journal of Chromatography A, 1997, 774, 281-286.	1.8	126
21	Standardized tests fail to assess the effects of antibiotics on environmental bacteria. Water Research, 2004, 38, 2111-2116.	5.3	113
22	Ultimate biodegradation and elimination of antibiotics in inherent tests. Chemosphere, 2007, 67, 604-613.	4.2	108
23	Ciprofloxacin in hospital effluent: Degradation by ozone and photoprocesses. Journal of Hazardous Materials, 2009, 169, 1154-1158.	6.5	102
24	Deactivation and transformation products in biodegradability testing of ÃŸ-lactams amoxicillin and piperacillin. Chemosphere, 2009, 75, 347-354.	4.2	101
25	Biodegradability of the X-ray contrast compound diatrizoic acid, identification of aerobic degradation products and effects against sewage sludge micro-organisms. Chemosphere, 2006, 62, 294-302.	4.2	100
26	Environmental risk assessment of anti-cancer drugs and their transformation products: A focus on their genotoxicity characterization-state of knowledge and short comings. Mutation Research - Reviews in Mutation Research, 2014, 760, 18-35.	2.4	100
27	Education in green chemistry and in sustainable chemistry: perspectives towards sustainability. Green Chemistry, 2021, 23, 1594-1608.	4.6	100
28	Concentration of Ciprofloxacin in Brazilian Hospital Effluent and Preliminary Risk Assessment: A Case Study. Clean - Soil, Air, Water, 2008, 36, 264-269.	0.7	86
29	Hospital effluents as a source for platinum in the environment. Science of the Total Environment, 1997, 193, 179-184.	3.9	84
30	Modeling and predicting aquatic aerobic biodegradation â€“ a review from a user's perspective. Green Chemistry, 2012, 14, 875.	4.6	84
31	Characterization of photo-transformation products of the antibiotic drug Ciprofloxacin with liquid chromatographyâ€“tandem mass spectrometry in combination with accurate mass determination using an LTQ-Orbitrap. Chemosphere, 2014, 115, 40-46.	4.2	84
32	Reducing aquatic micropollutants â€“ Increasing the focus on input prevention and integrated emission management. Science of the Total Environment, 2019, 652, 836-850.	3.9	84
33	Sustainable Chemistry: A Future Guiding Principle. Angewandte Chemie - International Edition, 2017, 56, 16420-16421.	7.2	81
34	Antibiotic residues in livestock manure: Does the EU risk assessment sufficiently protect against microbial toxicity and selection of resistant bacteria in the environment?. Journal of Hazardous Materials, 2019, 379, 120807.	6.5	81
35	Occurrence, distribution, and ecotoxicological risk assessment of selected pharmaceutical compounds in water from Lake Victoria, Uganda. Chemosphere, 2020, 239, 124642.	4.2	80
36	Biomass derived ionic liquids: synthesis from natural organic acids, characterization, toxicity, biodegradation and use as solvents for catalytic hydrogenation processes. Tetrahedron, 2013, 69, 6150-6161.	1.0	78

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37	Photodegradation of the antineoplastic cyclophosphamide: A comparative study of the efficiencies of UV/H2O2, UV/Fe2+/H2O2 and UV/TiO2 processes. Chemosphere, 2015, 120, 538-546.	4.2	72
38	Application of titanium dioxide nanoparticles as a photocatalyst for the removal of micropollutants such as pharmaceuticals from water. Current Opinion in Green and Sustainable Chemistry, 2017, 6, 1-10.	3.2	72
39	Degradation of 5-FU by means of advanced (photo)oxidation processes: UV/H2O2, UV/Fe2+/H2O2 and UV/TiO2 â€" Comparison of transformation products, ready biodegradability and toxicity. Science of the Total Environment, 2015, 527-528, 232-245.	3.9	70
40	Removal of dexamethasone from aqueous solution and hospital wastewater by electrocoagulation. Science of the Total Environment, 2013, 443, 351-357.	3.9	69
41	Synthesis of a series of amino acid derived ionic liquids and tertiary amines: green chemistry metrics including microbial toxicity and preliminary biodegradation data analysis. Green Chemistry, 2016, 18, 4374-4392.	4.6	69
42	Antineoplastic compounds in the environmentâ€"substances of special concern. Environmental Science and Pollution Research, 2016, 23, 14791-14804.	2.7	69
43	Transformation products of antibiotic and cytostatic drugs in the aquatic cycle that result from effluent treatment and abiotic/biotic reactions in the environment: An increasing challenge calling for higher emphasis on measures at the beginning of the pipe. Water Research, 2015, 72, 75-126.	5.3	66
44	Assessment of pharmaceutical waste management at selected hospitals and homes in Ghana. Waste Management and Research, 2012, 30, 625-630.	2.2	65
45	Biodegradability and ecotoxicitiy of tramadol, ranitidine, and their photoderivatives in the aquatic environment. Environmental Science and Pollution Research, 2012, 19, 72-85.	2.7	62
46	Removal of the anti-cancer drug methotrexate from water by advanced oxidation processes: Aerobic biodegradation and toxicity studies after treatment. Chemosphere, 2015, 141, 290-296.	4.2	61
47	The Ecological Impact of Time. Time and Society, 1996, 5, 209-235.	0.8	58
48	Oxidationâ€"coagulation of Î²-blockers by K2FeVIO4 in hospital wastewater: Assessment of degradation products and biodegradability. Science of the Total Environment, 2013, 452-453, 137-147.	3.9	58
49	The significance of different health institutions and their respective contributions of active pharmaceutical ingredients to wastewater. Environment International, 2015, 85, 61-76.	4.8	57
50	Re-Designing of Existing Pharmaceuticals for Environmental Biodegradability: A Tiered Approach with Î²-Blocker Propranolol as an Example. Environmental Science & Technology, 2015, 49, 11756-11763.	4.6	56
51	Identification of phototransformation products of the antiepileptic drug gabapentin: Biodegradability and initial assessment of toxicity. Water Research, 2015, 85, 11-21.	5.3	55
52	Estimation of the cancer risk to humans resulting from the presence of cyclophosphamide and ifosfamide in surface water. Environmental Science and Pollution Research, 2010, 17, 486-496.	2.7	54
53	Degradation of cyclophosphamide and 5-fluorouracil by UV and simulated sunlight treatments: Assessment of the enhancement of the biodegradability and toxicity. Environmental Pollution, 2016, 208, 467-476.	3.7	54
54	Synthesis, self-assembly, bacterial and fungal toxicity, and preliminary biodegradation studies of a series of<scp>l</scp>-phenylalanine-derived surface-active ionic liquids. Green Chemistry, 2019, 21, 1777-1794.	4.6	52

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55	On the way to greener ionic liquids: identification of a fully mineralizable phenylalanine-based ionic liquid. Green Chemistry, 2016, 18, 4361-4373.	4.6	50
56	Temporal dynamics and ecotoxicological risk assessment of personal care products, phthalate ester plasticizers, and organophosphorus flame retardants in water from Lake Victoria, Uganda. Chemosphere, 2021, 262, 127716.	4.2	50
57	Degradation of the tricyclic antipsychotic drug chlorpromazine under environmental conditions, identification of its main aquatic biotic and abiotic transformation products by LCâ€“MSn and their effects on environmental bacteria. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 889-890, 24-38.	1.2	48
58	Tetrabutylammonium prolinate-based ionic liquids: a combined asymmetric catalysis, antimicrobial toxicity and biodegradation assessment. RSC Advances, 2013, 3, 26241.	1.7	47
59	Entry of biocides and their transformation products into groundwater via urban stormwater infiltration systems. Water Research, 2018, 144, 413-423.	5.3	46
60	LC-HRMS Data Processing Strategy for Reliable Sample Comparison Exemplified by the Assessment of Water Treatment Processes. Analytical Chemistry, 2017, 89, 13219-13226.	3.2	46
61	Evaluation of the toxic effects of four anti-cancer drugs in plant bioassays and its potency for screening in the context of waste water reuse for irrigation. Chemosphere, 2015, 135, 403-410.	4.2	42
62	General strategies to increase the repeatability in non-target screening by liquid chromatography-high resolution mass spectrometry. Analytica Chimica Acta, 2016, 935, 173-186.	2.6	41
63	Recalcitrant pharmaceuticals in the aquatic environment: a comparative screening study of their occurrence, formation of phototransformation products and their in vitro toxicity. Environmental Chemistry, 2014, 11, 431.	0.7	40
64	One planet: one health. A call to support the initiative on a global scienceâ€“policy body on chemicals and waste. Environmental Sciences Europe, 2022, 34, 21.	2.6	39
65	Aerobic biodegradability of the calcium channel antagonist verapamil and identification of a microbial dead-end transformation product studied by LCâ€“MS/MS. Chemosphere, 2008, 72, 442-450.	4.2	38
66	Identification of phototransformation products of thalidomide and mixture toxicity assessment: An experimental and quantitative structural activity relationships (QSAR) approach. Water Research, 2014, 49, 11-22.	5.3	37
67	Qualitative environmental risk assessment of photolytic transformation products of iodinated X-ray contrast agent diatrizoic acid. Science of the Total Environment, 2014, 482-483, 378-388.	3.9	37
68	Putting benign by design into practice-novel concepts for green and sustainable pharmacy: Designing green drug derivatives by non-targeted synthesis and screening for biodegradability. Sustainable Chemistry and Pharmacy, 2015, 2, 31-36.	1.6	37
69	Photolysis of sulfamethoxypyridazine in various aqueous media: Aerobic biodegradation and identification of photoproducts by LC-UVâ€“MS/MS. Journal of Hazardous Materials, 2013, 244-245, 654-661.	6.5	36
70	Designing green derivatives of Î²-blocker Metoprolol: A tiered approach for green and sustainable pharmacy and chemistry. Chemosphere, 2014, 111, 493-499.	4.2	36
71	A comparative assessment of the transformation products of S-metolachlor and its commercial product Mercantor GoldÂ® and their fate in the aquatic environment by employing a combination of experimental and in silico methods. Science of the Total Environment, 2015, 506-507, 369-379.	3.9	35
72	A strategy for an initial assessment of the ecotoxicological effects of transformation products of pesticides in aquatic systems following a tiered approach. Environment International, 2020, 137, 105533.	4.8	35

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73	Not only biocidal products: Washing and cleaning agents and personal care products can act as further sources of biocidal active substances in wastewater. Environment International, 2018, 115, 247-256.	4.8	34
74	Possible underestimations of risks for the environment due to unregulated emissions of biocides from households to wastewater. Environment International, 2016, 94, 695-705.	4.8	33
75	Genotoxic effect of ciprofloxacin during photolytic decomposition monitored by the in vitro micronucleus test (MNvit) in HepG2 cells. Environmental Science and Pollution Research, 2012, 19, 1719-1727.	2.7	32
76	Flavonoids as biopesticides â€" Systematic assessment of sources, structures, activities and environmental fate. Science of the Total Environment, 2022, 824, 153781.	3.9	32
77	Bioavailability of Antibiotics at Soilâ€"Water Interfaces: A Comparison of Measured Activities and Equilibrium Partitioning Estimates. Environmental Science & Technology, 2018, 52, 6555-6564.	4.6	31
78	Fragrance allergens in household detergents. Regulatory Toxicology and Pharmacology, 2018, 97, 163-169.	1.3	30
79	Targeted metabolomics of pellicle and saliva in children with different caries activity. Scientific Reports, 2020, 10, 697.	1.6	30
80	Use of Chemotaxonomy To Study the Influence of Benzalkonium Chloride on Bacterial Populations in Biodegradation Testing. Clean - Soil, Air, Water, 2002, 30, 171-178.	0.8	29
81	Local use of antibiotics and their input and fate in a small sewage treatment plant â€" significance of balancing and analysis on a local scale vs. nationwide scale. Clean - Soil, Air, Water, 2006, 34, 587-592.	0.8	29
82	A sustainable chemistry solution to the presence of pharmaceuticals and chemicals in the aquatic environment â€" the example of re-designing Î²-blocker Atenolol. RSC Advances, 2015, 5, 27-32.	1.7	29
83	Ecopharmacology: A New Topic of Importance in Pharmacovigilance. Drug Safety, 2006, 29, 371-373.	1.4	28
84	Transformation products in the water cycle and the unsolved problem of their proactive assessment: A combined in vitro/in silico approach. Environment International, 2017, 98, 171-180.	4.8	28
85	Reducing Environmental Pollution by Antibiotics through Design for Environmental Degradation. ACS Sustainable Chemistry and Engineering, 2021, 9, 9358-9368.	3.2	28
86	Captopril and its dimer captopril disulfide: Photodegradation, aerobic biodegradation and identification of transformation products by HPLCâ€"UV and LCâ€"ion trap-MSn. Chemosphere, 2012, 88, 1170-1177.	4.2	27
87	Natural clay as a sorbent to remove pharmaceutical micropollutants from wastewater. Chemosphere, 2020, 258, 127213.	4.2	27
88	The contribution of material circularity to sustainabilityâ€"Recycling and reuse of textiles. Current Opinion in Green and Sustainable Chemistry, 2021, 32, 100535.	3.2	26
89	Emerging Contaminants versus Microâ€pollutants. Clean - Soil, Air, Water, 2011, 39, 889-890.	0.7	25
90	Simultaneous Determination of 11 Sulfonamides by HPLCâ€"UV and Application for Fast Screening of Their Aerobic Elimination and Biodegradation in a Simple Test. Clean - Soil, Air, Water, 2013, 41, 907-916.	0.7	25

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91	Mandelic acid derived ionic liquids: synthesis, toxicity and biodegradability. RSC Advances, 2017, 7, 2115-2126.	1.7	24
92	Chemistry and materials science for a sustainable circular polymeric economy. Nature Reviews Materials, 2022, 7, 76-78.	23.3	24
93	Approach for detecting mutagenicity of biodegraded and ozonated pharmaceuticals, metabolites and transformation products from a drinking water perspective. Environmental Science and Pollution Research, 2012, 19, 3597-3609.	2.7	23
94	Photodegradation of the UV filter ethylhexyl methoxycinnamate under ultraviolet light: Identification and in silico assessment of photo-transformation products in the context of grey water reuse. Science of the Total Environment, 2016, 572, 1092-1100.	3.9	23
95	Antibiotics and sweeteners in the aquatic environment: biodegradability, formation of phototransformation products, and in vitro toxicity. Environmental Science and Pollution Research, 2015, 22, 18017-18030.	2.7	22
96	Environmental fate and effect assessment of thioridazine and its transformation products formed by photodegradation. Environmental Pollution, 2016, 213, 658-670.	3.7	22
97	Comparison of an Electrochemical and Luminescenceâ€Based Oxygen Measuring System for Use in the Biodegradability Testing According to Closed Bottle Test (OECD 301D). Clean - Soil, Air, Water, 2013, 41, 251-257.	0.7	20
98	Biodegradation screening of chemicals in an artificial matrix simulating the waterâ€“sediment interface. Chemosphere, 2015, 119, 1240-1246.	4.2	20
99	Antimicrobial activity of pharmaceutical cocktails in sewage treatment plant effluent â€“ An experimental and predictive approach to mixture risk assessment. Environmental Pollution, 2017, 231, 1507-1517.	3.7	20
100	Biodegradation tests of mercaptocarboxylic acids, their esters, related divalent sulfur compounds and mercaptans. Environmental Science and Pollution Research, 2018, 25, 18393-18411.	2.7	20
101	Experimental and in silico assessment of fate and effects of the UV filter 2-phenylbenzimidazole 5-sulfonic acid and its phototransformation products in aquatic solutions. Water Research, 2020, 171, 115393.	5.3	20
102	Photolytic transformation products and biological stability of the hydrological tracer Uranine. Science of the Total Environment, 2015, 533, 446-453.	3.9	19
103	Assessing the environmental fate of S-metolachlor, its commercial product Mercantor GoldÂ® and their photoproducts using a waterâ€“sediment test and in silico methods. Chemosphere, 2015, 138, 847-855.	4.2	19
104	Initial hazard screening for genotoxicity of photo-transformation products of ciprofloxacin by applying a combination of experimental and in-silico testing. Environmental Pollution, 2016, 211, 148-156.	3.7	19
105	Toward Application and Implementation of <i>in Silico</i> Tools and Workflows within Benign by Design Approaches. ACS Sustainable Chemistry and Engineering, 2021, 9, 12461-12475.	3.2	19
106	Chemicals in the Environment â€“ the Need for a Clear Nomenclature: Parent Compounds, Metabolites, Transformation Products and Their Elimination. Clean - Soil, Air, Water, 2008, 36, 349-350.	0.7	18
107	Fate of Benzalkonium Chloride in a Sewage Sludge Low Temperature Conversion Process Investigated by LC-LC/ESI-MS/MS. Clean - Soil, Air, Water, 2007, 35, 81-87.	0.7	17
108	Hazard screening of photo-transformation products from pharmaceuticals: Application to selective Î²1-blockers atenolol and metoprolol. Science of the Total Environment, 2017, 579, 1769-1780.	3.9	17

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109	Ready biodegradability of trifluoromethylated phenothiazine drugs, structural elucidation of their aquatic transformation products, and identification of environmental risks studied by LC-MS n and QSAR. Environmental Science and Pollution Research, 2012, 19, 3162-3177.	2.7	16
110	From a problem to a business opportunity-design of pharmaceuticals for environmental biodegradability. Sustainable Chemistry and Pharmacy, 2019, 12, 100136.	1.6	16
111	Material circularity and the role of the chemical sciences as a key enabler of a sustainable post-trash age. Sustainable Chemistry and Pharmacy, 2020, 17, 100312.	1.6	16
112	Towards the design of active pharmaceutical ingredients mineralizing readily in the environment. Green Chemistry, 2021, 23, 5006-5023.	4.6	16
113	Inventory of biodegradation data of ionic liquids. Chemosphere, 2022, 299, 134385.	4.2	16
114	Transformation products of sulfonamides in aquatic systems: Lessons learned from available environmental fate and behaviour data. Science of the Total Environment, 2022, 830, 154744.	3.9	16
115	Sustainability, substance flow management and time. Part I. Journal of Environmental Management, 2008, 88, 1333-1342.	3.8	15
116	Nachhaltige Chemie â€“ das kÃ¼nftige Leitbild. Angewandte Chemie, 2017, 129, 16640-16641.	1.6	15
117	Photolysis of mixtures of UV filters octocrylene and ethylhexyl methoxycinnamate leads to formation of mixed transformation products and different kinetics. Science of the Total Environment, 2019, 697, 134048.	3.9	15
118	Design rules for environmental biodegradability of phenylalanine alkyl ester linked ionic liquids. Green Chemistry, 2020, 22, 4498-4508.	4.6	15
119	Sources and pathways of biocides and their transformation products in urban storm water infrastructure of a 2â€‰ha urban district. Hydrology and Earth System Sciences, 2021, 25, 4495-4512.	1.9	15
120	Biodegradation of the Antituberculosis Drug Isoniazid in the Aquatic Environment. Clean - Soil, Air, Water, 2015, 43, 166-172.	0.7	14
121	Initial fate assessment of teratogenic drug trimipramine and its photo-transformation products â€“ Role of pH, concentration and temperature. Water Research, 2017, 108, 197-211.	5.3	14
122	UV-photodegradation of desipramine: Impact of concentration, pH and temperature on formation of products including their biodegradability and toxicity. Science of the Total Environment, 2016, 566-567, 826-840.	3.9	13
123	Fenton process on single and mixture components of phenothiazine pharmaceuticals: Assessment of intermediaries, fate, and preliminary ecotoxicity. Science of the Total Environment, 2017, 583, 36-52.	3.9	13
124	Assessment of the biotic and abiotic elimination processes of five micropollutants during cultivation of the green microalgae Acutodesmus obliquus. Bioresource Technology Reports, 2020, 11, 100512.	1.5	13
125	Photodegradation, Photocatalytic, and Aerobic Biodegradation of Sulfisomidine and Identification of Transformation Products by LCâ€“UVâ€MS/MS. Clean - Soil, Air, Water, 2012, 40, 1244-1249.	0.7	12
126	Aquatic photochemistry, abiotic and aerobic biodegradability of thalidomide: Identification of stable transformation products by LCâ€“UVâ€“MSn. Science of the Total Environment, 2013, 463-464, 140-150.	3.9	12

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127	Experimental and in silico assessment of fate and effects of the antipsychotic drug quetiapine and its bio- and phototransformation products in aquatic environments. Environmental Pollution, 2016, 218, 66-76.	3.7	12
128	Automated Determination of Sulfadiazine in Water, Fish Plasma and Muscle by HPLC with Onâ€Line Columnâ€Switching. Clean - Soil, Air, Water, 2016, 44, 967-974.	0.7	12
129	Consumersâ€™ perceptions of biocidal products in households. International Journal of Hygiene and Environmental Health, 2018, 221, 260-268.	2.1	12
130	Towards more sustainable curricula. Nature Reviews Chemistry, 2021, 5, 76-77.	13.8	11
131	Combination of experimental and in silico methods for the assessment of the phototransformation products of the antipsychotic drug/metabolite Mesoridazine. Science of the Total Environment, 2018, 618, 697-711.	3.9	10
132	Improving the end-of-life management of solar panels in Germany. Renewable and Sustainable Energy Reviews, 2022, 168, 112678.	8.2	10
133	Studying the fate of the drug Chlorprothixene and its photo transformation products in the aquatic environment: Identification, assessment and priority setting by application of a combination of experiments and various in silico assessments. Water Research, 2019, 149, 467-476.	5.3	9
134	Growth and fatty acid composition of <i>Acutodesmus obliquus</i> under different light spectra and temperatures. Lipids, 2021, 56, 485-498.	0.7	9
135	Green Chemistry and Its Contribution to Industrial Biotechnology. Advances in Biochemical Engineering/Biotechnology, 2018, 173, 281-298.	0.6	8
136	Physicochemical properties and biodegradability of organically functionalized colloidal silica particles in aqueous environment. Chemosphere, 2014, 99, 96-101.	4.2	7
137	Towards the design of organosilicon compounds for environmental degradation by using structure biodegradability relationships. Chemosphere, 2021, 279, 130442.	4.2	7
138	Putting sustainable chemistry and resource use into context: The role of temporal diversity. Sustainable Chemistry and Pharmacy, 2017, 5, 105-114.	1.6	7
139	Towards a more sustainable metal use â€" Lessons learned from national strategy documents. Resources Policy, 2020, 68, 101770.	4.2	6
140	Abiotic and biotic degradation of five aromatic organosilicon compounds in aqueous mediaâ€"Structure degradability relationships. Journal of Hazardous Materials, 2020, 392, 122429.	6.5	6
141	Modification of the Lipid Profile of the Initial Oral Biofilm In Situ Using Linseed Oil as Mouthwash. Nutrients, 2021, 13, 989.	1.7	5
142	PharmCycle: a holistic approach to reduce the contamination of the aquatic environment with antibiotics by developing sustainable antibiotics, improving the environmental risk assessment of antibiotics, and reducing the discharges of antibiotics in the wastewater outlet. Environmental Sciences Europe, 2018, 30, .	2.6	4
143	Design of a Master of Science Sustainable Chemistry. Sustainable Chemistry and Pharmacy, 2020, 17, 100270.	1.6	4
144	Long-Term Strategies for Tackling Micropollutants. Handbook of Environmental Chemistry, 2015, , 291-299.	0.2	3

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145	Sustainable Chemistry and the International Sustainable Chemistry Collaborative Centre (ISC₃). Gaia, 2018, 27, 247-249.	0.3	3
146	Using structure biodegradability relationships for environmentally benign design of organosilicons â€“ An experimental comparison of organosilicons and their carbon analogues. Sustainable Chemistry and Pharmacy, 2020, 18, 100331.	1.6	3
147	In search of the Holy Grail of Rodent control: Step-by-step implementation of safe and sustainable-by-design principles on the example of rodenticides. Sustainable Chemistry and Pharmacy, 2022, 25, 100602.	1.6	3
148	Management of Environmental Contaminants From Health Care: Sustainable Pharmacy. , 2018, , 225-237.		2
149	Degradation and Elimination of Anticancer Drugs by Water and Wastewater Treatment â€“ Toxicity and Biodegradability Before and After the Treatment. , 2020, , 139-168.		2
150	Chemische Stoffe in der Umwelt. , 2014, , 175-211.		1
151	Sustainable Chemistryâ€”Path and Goal for a More Sustainable Textile Sector. , 2021, , 75-104.		1