Roland Weber

List of Publications by Year in descending order

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104 papers	8,286 citations	66343 42 h-index	46799 89 g-index
105 all docs	105 docs citations	105 times ranked	7919 citing authors

#	Article	IF	Citations
1	An overview of chemical additives present in plastics: Migration, release, fate and environmental impact during their use, disposal and recycling. Journal of Hazardous Materials, 2018, 344, 179-199.	12.4	2,087
2	Marine litter plastics and microplastics and their toxic chemicals components: the need for urgent preventive measures. Environmental Sciences Europe, 2018, 30, 13.	5.5	438
3	Halogenated Flame Retardants: Do the Fire Safety Benefits Justify the Risks?. Reviews on Environmental Health, 2010, 25, 261-305.	2.4	409
4	Hexachlorocyclohexane (HCH) as new Stockholm Convention POPsâ€"a global perspective on the management of Lindane and its waste isomers. Environmental Science and Pollution Research, 2011, 18, 152-162.	5.3	359
5	Dioxin- and POP-contaminated sitesâ€"contemporary and future relevance and challenges. Environmental Science and Pollution Research, 2008, 15, 363-393.	5.3	322
6	Relevance of BFRs and thermal conditions on the formation pathways of brominated and brominatedâ€"chlorinated dibenzodioxins and dibenzofurans. Environment International, 2003, 29, 699-710.	10.0	308
7	Review Article: Persistent organic pollutants and landfills - a review of past experiences and future challenges. Waste Management and Research, 2011, 29, 107-121.	3.9	236
8	The Madrid Statement on Poly- and Perfluoroalkyl Substances (PFASs). Environmental Health Perspectives, 2015, 123, A107-11.	6.0	199
9	Low temperature decomposition of PCDD/PCDF, chlorobenzenes and PAHs by TiO2-based V2O5â€"WO3 catalysts. Applied Catalysis B: Environmental, 1999, 20, 249-256.	20.2	191
10	Formation of PCDF, PCDD, PCB, and PCN in de novo synthesis from PAH: Mechanistic aspects and correlation to fluidized bed incinerators. Chemosphere, 2001, 44, 1429-1438.	8.2	166
11	The Florence Statement on Triclosan and Triclocarban. Environmental Health Perspectives, 2017, 125, 064501.	6.0	144
12	PFOS and PFC releases and associated pollution from a PFC production plant in Minnesota (USA). Environmental Science and Pollution Research, 2013, 20, 1977-1992.	5.3	137
13	Reviewing the relevance of dioxin and PCB sources for food from animal origin and the need for their inventory, control and management. Environmental Sciences Europe, 2018, 30, 42.	5.5	122
14	Ensuring sustainability in plastics use in Africa: consumption, waste generation, and projections. Environmental Sciences Europe, 2019, 31, .	5.5	114
15	Mechanism of the formation of polychlorinated dibenzo-p-dioxins and dibenzofurans from chlorophenols in gas phase reactions. Chemosphere, 1999, 38, 529-549.	8.2	106
16	Relevance of PCDD/PCDF formation for the evaluation of POPs destruction technologies â€“ Review on current status and assessment gaps. Chemosphere, 2007, 67, S109-S117.	8.2	104
17	HCH and lindane contaminated sites: European and global need for a permanent solution for a long-time neglected issue. Environmental Pollution, 2019, 248, 696-705.	7.5	90
18	Evaluation of hexachlorocyclohexane contamination from the last lindane production plant operating in India. Environmental Science and Pollution Research, 2011, 18, 586-597.	5.3	87

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19	Changes in toxicity and Ah receptor agonist activity of suspended particulate matter during flood events at the rivers Neckar and Rhine â€" a mass balance approach using in vitro methods and chemical analysis. Environmental Science and Pollution Research, 2008, 15, 536-553.	5.3	86
20	PCDD/PCDF formation in fluidized bed incineration. Chemosphere, 1999, 38, 2643-2654.	8.2	85
21	Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans (PCDD/Fs) Impurities in Pesticides: A Neglected Source of Contemporary Relevance. Environmental Science & Technology, 2010, 44, 5409-5415.	10.0	84
22	Advances and perspective in bioremediation of polychlorinated biphenyl-contaminated soils. Environmental Science and Pollution Research, 2018, 25, 16355-16375.	5.3	77
23	Polybrominated diphenyl ethers listed as Stockholm Convention POPs, other brominated flame retardants and heavy metals in e-waste polymers in Nigeria. Environmental Science and Pollution Research, 2015, 22, 14489-14501.	5.3	73
24	PCB Destruction in Subcritical and Supercritical Water Evaluation of PCDF Formation and Initial Steps of Degradation Mechanisms. Environmental Science & Technology, 2002, 36, 1839-1844.	10.0	70
25	Per- and polyfluoroalkyl substances (PFASs) in Chinese drinking water: risk assessment and geographical distribution. Environmental Sciences Europe, 2021, 33, .	5.5	68
26	Life cycle of PCBs and contamination of the environment and of food products from animal origin. Environmental Science and Pollution Research, 2018, 25, 16325-16343.	5.3	67
27	Low temperature decomposition of PCB by TiO2-based V2O5/WO3 catalyst: evaluation of the relevance of PCDF formation and insights into the first step of oxidative destruction of chlorinated aromatics. Applied Catalysis B: Environmental, 2001, 34, 113-127.	20.2	63
28	Correlation of PCDD/PCDF and CO values in a MSW incineratorâ€"â€"indication of memory effects in the high temperature/cooling section. Chemosphere, 2002, 49, 127-134.	8.2	63
29	Destruction efficiency of catalytic filters for polychlorinated dibenzo-p-dioxin and dibenzofurans in laboratory test and field operation â€" insight into destruction and adsorption behavior of semivolatile compounds. Applied Catalysis B: Environmental, 2001, 31, 195-207.	20.2	59
30	From incremental to fundamental substitution in chemical alternatives assessment. Sustainable Chemistry and Pharmacy, 2015, 1, 1-8.	3.3	53
31	First assessment on degradability of sodium p-perfluorous nonenoxybenzene sulfonate (OBS), a high volume alternative to perfluorooctane sulfonate in fire-fighting foams and oil production agents in China. RSC Advances, 2017, 7, 46948-46957.	3.6	53
32	Characterization of PCDD/Fs and heavy metal distribution from municipal solid waste incinerator fly ash sintering process. Waste Management, 2020, 103, 260-267.	7.4	52
33	Per- and polyfluoroalkyl substances in selected sewage sludge in Nigeria. Chemosphere, 2013, 92, 329-335.	8.2	50
34	Formation and destruction of pcdd/pcdf during heat treatment of fly ash samples from fluidized bed incinerators. Chemosphere, 1999, 38, 2633-2642.	8.2	49
35	Dioxin - contemporary and future challenges of historical legacies. Environmental Science and Pollution Research, 2008, 15, 96-100.	5.3	49
36	The need for an integrated approach to the global challenge of POPs management. Environmental Science and Pollution Research, 2013, 20, 1901-1906.	5.3	49

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37	Integrated methodology for assessing the HCH groundwater pollution at the multi-source contaminated mega-site Bitterfeld/Wolfen. Environmental Science and Pollution Research, 2013, 20, 1907-1917.	5.3	48
38	Chlorinated paraffins in the technosphere: A review of available information and data gaps demonstrating the need to support the Stockholm Convention implementation. Emerging Contaminants, 2020, 6, 143-154.	4.9	48
39	Transformation Processes, Pathways, and Possible Sources of Distinctive Polychlorinated Dibenzo-p-dioxin Signatures in Sink Environments. Environmental Science & Technology, 2002, 36, 3542-3549.	10.0	46
40	Assessing Dioxin Precursors in Pesticide Formulations and Environmental Samples As a Source of Octachlorodibenzo-<i>p</i>-dioxin in Soil and Sediment. Environmental Science & Technology, 2008, 42, 1472-1478.	10.0	45
41	Pathways and factors for food safety and food security at PFOS contaminated sites within a problem based learning approach. Chemosphere, 2015, 129, 192-202.	8.2	44
42	Assessing Forest Fire as a Potential PCDD/F Source in Queensland, Australia. Environmental Science & Technology, 2003, 37, 4325-4329.	10.0	43
43	Organochlorine pesticides in placenta in Kyrgyzstan and the effect on pregnancy, childbirth, and newborn health. Environmental Science and Pollution Research, 2018, 25, 31885-31894.	5.3	43
44	Remobilization of pollutants during extreme flood events poses severe risks to human and environmental health. Journal of Hazardous Materials, 2022, 421, 126691.	12.4	43
45	The dioxin/POPs legacy of pesticide production in Hamburg: Part 2â€"waste deposits and remediation of Georgswerder landfill. Environmental Science and Pollution Research, 2013, 20, 1925-1936.	5.3	41
46	Long-term emissions of hexabromocyclododecane as a chemical of concern in products in China. Environment International, 2016, 91, 291-300.	10.0	41
47	Distribution and Emission Estimation of Short- and Medium-Chain Chlorinated Paraffins in Chinese Products through Detection-Based Mass Balancing. Environmental Science & Technology, 2021, 55, 7335-7343.	10.0	41
48	Dioxin/POPs legacy of pesticide production in Hamburg: Part 1â€"securing of the production area. Environmental Science and Pollution Research, 2013, 20, 1918-1924.	5.3	39
49	Flammability standards for furniture, building insulation and electronics: Benefit and risk. Emerging Contaminants, 2020, 6, 432-441.	4.9	38
50	Landfill mining from a deposit of the chlorine/organochlorine industry as source of dioxin contamination of animal feed and assessment of the responsible processes. Environmental Science and Pollution Research, 2013, 20, 1958-1965.	5.3	37
51	Enabling a circular economy for chemicals in plastics. Current Opinion in Green and Sustainable Chemistry, 2021, 31, 100513.	5.9	37
52	Formation of dioxins during exposure of pesticide formulations to sunlight. Chemosphere, 2012, 88, 364-370.	8.2	35
53	Formation characteristics of PCDD and PCDF during pyrolysis processes. Chemosphere, 2001, 45, 1111-1117.	8.2	34
54	Dioxins reformation and destruction in secondary copper smelting fly ash under ball milling. Scientific Reports, 2016, 6, 22925.	3.3	33

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55	Substance flow analysis of polybrominated diphenyl ethers in plastic from EEE/WEEE in Nigeria in the frame of Stockholm Convention as a basis for policy advice. Environmental Science and Pollution Research, 2015, 22, 14502-14514.	5.3	32
56	Historical PCDD Inputs and Their Source Implications from Dated Sediment Cores in Queensland (Australia). Environmental Science & Technology, 2001, 35, 4597-4603.	10.0	30
57	Relevance of coplanar PCBs for TEQ emission of fluidized bed incineration and impact of emission control devices. Chemosphere, 2003, 53, 619-625.	8.2	28
58	The Forum of the International HCH and Pesticides Associationâ€"a platform for international cooperation. Environmental Science and Pollution Research, 2013, 20, 2081-2086.	5.3	28
59	Polybrominated diphenyl ethers (PBDEs) in chicken eggs and cow milk around municipal dumpsites in Abuja, Nigeria. Ecotoxicology and Environmental Safety, 2019, 179, 282-289.	6.0	26
60	Determination of PCBs, PCDDs and PCDFs in insulating oil samples from stored Chinese electrical capacitors by HRGC/HRMS. Chemosphere, 2011, 85, 239-246.	8.2	25
61	The spatial distribution of human exposure to PCBs around a former production site in Slovakia. Environmental Science and Pollution Research, 2015, 22, 14405-14415.	5.3	25
62	Enhancing Scientific Support for the Stockholm Conventionâ€™s Implementation: An Analysis of Policy Needs for Scientific Evidence. Environmental Science & Technology, 2022, 56, 2936-2949.	10.0	25
63	The need for better management and control of POPs stockpiles. Environmental Science and Pollution Research, 2015, 22, 14385-14390.	5.3	24
64	Inventory approach for short-chain chlorinated paraffins for the Stockholm Convention implementation in Brazil. Chemosphere, 2022, 287, 132344.	8.2	24
65	Occurrence, removal and emission of per- and polyfluorinated alkyl substances (PFASs) from chrome plating industry: A case study in Southeast China. Emerging Contaminants, 2020, 6, 376-384.	4.9	22
66	Formation of brominated and chlorinated dioxins and its prevention during a pilot test of mechanochemical treatment of PCB and PBDE contaminated soil. Environmental Science and Pollution Research, 2017, 24, 20072-20081.	5.3	21
67	European cooperation to tackle the legacies of hexachlorocyclohexane (HCH) and lindane. Emerging Contaminants, 2022, 8, 97-112.	4.9	21
68	Congener-specific analysis of polychlorinated naphthalenes (PCNs) in the major Chinese technical PCB formulation from a stored Chinese electrical capacitor. Environmental Science and Pollution Research, 2015, 22, 14471-14477.	5.3	20
69	Threats to water resources from hexachlorobenzene waste at Kalush City (Ukraine)â€"a review of the risks and the remediation options. Environmental Science and Pollution Research, 2015, 22, 14391-14404.	5.3	20
70	Initial Inventory of Plastics Imports in Nigeria as a Basis for More Sustainable Management Policies. Journal of Health and Pollution, 2018, 8, 180601.	1.8	20
71	The legacy of pesticides and POPs stockpilesâ€"a threat to health and the environment. Environmental Science and Pollution Research, 2018, 25, 31793-31798.	5.3	19
72	Matrix effects on the de novo synthesis of polychlorinated dibenzo-p-dioxins, dibenzofurans, biphenyls and benzenes. Chemosphere, 2007, 68, 51-61.	8.2	18

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73	Long-term monitoring of PCDD/PCDF and other unintentionally produced POPs â€" Concepts and case studies from Europe. Science China Chemistry, 2010, 53, 1017-1024.	8.2	18
74	Methods of Responsibly Managing End-of-Life Foams and Plastics Containing Flame Retardants: Part I. Environmental Engineering Science, 2018, 35, 573-587.	1.6	18
75	Assessment and review of organochlorine pesticide pollution in Kyrgyzstan. Environmental Science and Pollution Research, 2018, 25, 31836-31847.	5.3	17
76	Unintentional formed PCDDs, PCDFs, and DL-PCBs as impurities in Chinese pentachloronitrobenzene products. Environmental Science and Pollution Research, 2015, 22, 14462-14470.	5.3	16
77	Dioxin in the Elbe river basin: policy and science under the water framework directive 2000â€"2015 and toward 2021. Environmental Sciences Europe, 2016, 28, 9.	5.5	16
78	Official control of plant protection products in Poland: detection of illegal products. Environmental Science and Pollution Research, 2018, 25, 31906-31916.	5.3	16
79	PCBs risk evaluation, environmental protection, and management: 50-year research and counting for elimination by 2028. Environmental Science and Pollution Research, 2018, 25, 16269-16276.	5.3	16
80	Monitoring dioxins and PCBs in eggs as sensitive indicators for environmental pollution and global contaminated sites and recommendations for reducing and controlling releases and exposure. Emerging Contaminants, 2022, 8, 254-279.	4.9	16
81	Developing potency factors for thyroid hormone disruption by PFASs using TTR-TRÎ² CALUXÂ® bioassay and assessment of PFASs mixtures in technical products. Environment International, 2021, 157, 106791.	10.0	15
82	Characterization of dioxin-like contamination in soil and sediments from the â€œhot spotâ€•area of petrochemical plant in Pancevo (Serbia). Environmental Science and Pollution Research, 2011, 18, 677-686.	5.3	14
83	Inventory and substance flow analysis of polybrominated diphenyl ethers in the Nigerian transport sectorâ€"end-of-life vehicles policy and management. Environmental Science and Pollution Research, 2018, 25, 31805-31818.	5.3	14
84	Minimizing the environmental impact of PFAS by using specialized coagulants for the treatment of PFAS polluted waters and for the decontamination of firefighting equipment. Emerging Contaminants, 2021, 7, 63-76.	4.9	14
85	Polybrominated diphenyl ethers (PBDEs) concentrations in soil and plants around municipal dumpsites in Abuja, Nigeria. Environmental Pollution, 2021, 277, 116794.	7.5	13
86	Initial Inventory of Plastics Imports in Nigeria as a Basis for More Sustainable Management Policies. Journal of Health and Pollution, 2018, 8, 1-15.	1.8	13
87	PCDD/PCDF formation in the chlor-alkali processâ€"laboratory study and comparison with patterns from contaminated sites. Environmental Science and Pollution Research, 2018, 25, 31874-31884.	5.3	12
88	Formation of polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/F) from oxidation of 4,4â€²-dichlorobiphenyl (4,4â€²-DCB). Proceedings of the Combustion Institute, 2019, 37, 1075-1082.	3.9	12
89	Methods of Responsibly Managing End-of-Life Foams and Plastics Containing Flame Retardants: Part II. Environmental Engineering Science, 2018, 35, 588-602.	1.6	11
90	Massive PCDD/F contamination at the Khimprom organochlorine plant in Ufaâ€"a review and recommendations for future management. Environmental Science and Pollution Research, 2015, 22, 14416-14430.	5.3	10

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91	State of art control of dioxins/unintentional POPs in the secondary copper industry: A review to assist policy making with the implementation of the Stockholm Convention. Emerging Contaminants, 2020, 6, 235-249.	4.9	10
92	Disposal of waste-based fuels and raw materials in cement plants in Germany and Switzerland â€“ What can be learned for global co-incineration practice and policy?. Emerging Contaminants, 2020, 6, 93-102.	4.9	10
93	Biomonitoring of polychlorinated biphenyls in Bavaria/Germanyâ€”long-term observations and standardization. Environmental Science and Pollution Research, 2018, 25, 16344-16354.	5.3	9
94	Brazilian overview of per- and polyfluoroalkyl substances listed as persistent organic pollutants in the stockholm convention. Chemosphere, 2022, 291, 132674.	8.2	9
95	Inventory development for perfluorooctane sulfonic acid (PFOS) in Turkey: challenges to control chemicals in articles and products. Environmental Science and Pollution Research, 2015, 22, 14537-14545.	5.3	7
96	Monitoring OH-PCBs in PCB transport workerâ€™s urine as a non-invasive exposure assessment tool. Environmental Science and Pollution Research, 2018, 25, 16446-16454.	5.3	7
97	Inventory and action plan for PFOS and related substances in Suriname as basis for Stockholm Convention implementation. Emerging Contaminants, 2020, 6, 421-431.	4.9	7
98	Comprehensive monitoring of chlorinated aromatic and heteroaromatic pollutants at sites contaminated by chlorine production processes to inform policy making. Emerging Contaminants, 2020, 6, 133-142.	4.9	7
99	Dioxin sources to the aquatic environment: Re-assessing dioxins in industrial processes and possible emissions to the aquatic. Emerging Contaminants, 2021, 7, 52-62.	4.9	7
100	Assessment of Use, Reuse, and Endâ€ofâ€Life Disposal and Xâ€Ray Fluorescence Analysis Screening of Waste Mobile Phones in Nigeria. Environmental Quality Management, 2014, 23, 1-12.	1.9	6
101	Polybrominated diphenyl ethers (PBDEs) concentrations in soil, sediment and water samples around electronic wastes dumpsites in Lagos, Nigeria. Emerging Contaminants, 2022, 8, 206-215.	4.9	5
102	Science and policy of legacy and emerging POPs towards Implementing International Treaties. Emerging Contaminants, 2022, 8, 299-303.	4.9	3
103	Recommendations on chemicals management policy and legislation in the framework of the Egyptianâ€“German twinning project on hazardous substances and waste management. Environmental Science and Pollution Research, 2013, 20, 2087-2097.	5.3	1
104	The 12th international HCH and pesticides forum in Kiev/Ukraine. Environmental Science and Pollution Research, 2015, 22, 4780-4785.	5.3	1