Martin Krauss

List of Publications by Year
in descending order

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100	6,878	66315	62565
papers	citations	42 h-index	80 g-index

102	102	102	6986
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	pH-Dependent Partitioning of Ionizable Organic Chemicals between the Silicone Polymer Polydimethylsiloxane (PDMS) and Water. ACS Environmental Au, 2022, 2, 253-262.	3.3	6
2	A look down the drain: Identification of dissolved and particle bound organic pollutants in urban runoff waters and sediments. Environmental Pollution, 2022, 302, 119047.	3.7	13
3	Complex chemical cocktail, containing insecticides diazinon and permethrin, drives acute toxicity to crustaceans in mountain lakes. Science of the Total Environment, 2022, 828, 154456.	3.9	9
4	Reduced genetic diversity of freshwater amphipods in rivers with increased levels of anthropogenic organic micropollutants. Evolutionary Applications, 2022, 15, 976-991.	1.5	7
5	Calibration and field application of the Atlantic HLB Disk containing ChemcatcherÂ® passive sampler â€“ Quantitative monitoring of herbicides, other pesticides, and transformation products in German streams. Journal of Hazardous Materials, 2021, 410, 124538.	6.5	18
6	Suspended Particulate Matterâ€”A Source or Sink for Chemical Mixtures of Organic Micropollutants in a Small River under Baseflow Conditions?. Environmental Science & Technology, 2021, 55, 5106-5116.	4.6	24
7	Chemical Pollution Levels in a River Explain Site-Specific Sensitivities to Micropollutants within a Genetically Homogeneous Population of Freshwater Amphipods. Environmental Science & Technology, 2021, 55, 6087-6096.	4.6	18
8	Evidence for antifouling biocides as one of the limiting factors for the recovery of macrophyte communities in lakes of Schleswig-Holstein. Environmental Sciences Europe, 2021, 33, .	2.6	16
9	Long-term effects of a catastrophic insecticide spill on stream invertebrates. Science of the Total Environment, 2021, 768, 144456.	3.9	7
10	Disentangling multiple chemical and non-chemical stressors in a lotic ecosystem using a longitudinal approach. Science of the Total Environment, 2021, 769, 144324.	3.9	24
11	Improving the Screening Analysis of Pesticide Metabolites in Human Biomonitoring by Combining High-Throughput In Vitro Incubation and Automated LCâ€“HRMS Data Processing. Analytical Chemistry, 2021, 93, 9149-9157.	3.2	9
12	An annotation database for chemicals of emerging concern in exposome research. Environment International, 2021, 152, 106511.	4.8	29
13	Variability in retinoid-like activity of extracellular compound mixtures produced by wide spectra of phytoplankton species and contributing metabolites. Journal of Hazardous Materials, 2021, 414, 125412.	6.5	4
14	Development and Application of Liquid Chromatographic Retention Time Indices in HRMS-Based Suspect and Nontarget Screening. Analytical Chemistry, 2021, 93, 11601-11611.	3.2	79
15	Pesticides are the dominant stressors for vulnerable insects in lowland streams. Water Research, 2021, 201, 117262.	5.3	118
16	Sources and Fate of the Antiandrogenic Fluorescent Dye 4â€Methylâ€7â€Diethylaminocoumarin in Small River Systems. Environmental Toxicology and Chemistry, 2021, 40, 3078-3091.	2.2	4
17	Superabsorbent polymer as a supplement substrate of constructed wetland to retain pesticides from agricultural runoff. Water Research, 2021, 207, 117776.	5.3	20
18	Effectâ€Directed Analysis of Progestogens and Glucocorticoids at Trace Concentrations in River Water. Environmental Toxicology and Chemistry, 2020, 39, 189-199.	2.2	39

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19	Multi- and transgenerational effects following early-life exposure of zebrafish to permethrin and coumarin 47: Impact on growth, fertility, behavior and lipid metabolism. Ecotoxicology and Environmental Safety, 2020, 205, 111348.	2.9	16
20	Symbolic Aggregate Approximation Improves Gap Filling in High-Resolution Mass Spectrometry Data Processing. Analytical Chemistry, 2020, 92, 10425-10432.	3.2	6
21	Mixture Risk Drivers in Freshwater Sediments and Their Bioavailability Determined Using Passive Equilibrium Sampling. Environmental Science & Technology, 2020, 54, 13197-13206.	4.6	17
22	Neurobehavioral effects of cyanobacterial biomass field extracts on zebrafish embryos and potential role of retinoids. Aquatic Toxicology, 2020, 228, 105613.	1.9	6
23	Wastewater treatment efficacy evaluated with inÂvitro bioassays. Water Research X, 2020, 9, 100072.	2.8	31
24	Application of the Sea Urchin Embryo Test in Toxicity Evaluation and Effect-Directed Analysis of Wastewater Treatment Plant Effluents. Environmental Science & Technology, 2020, 54, 8890-8899.	4.6	19
25	Assessing the Mixture Effects in ‹i›In Vitro‹/i› Bioassays of Chemicals Occurring in Small Agricultural Streams during Rain Events. Environmental Science & Technology, 2020, 54, 8280-8290.	4.6	66
26	Occurrence and risk assessment of organic micropollutants in freshwater systems within the Lake Victoria South Basin, Kenya. Science of the Total Environment, 2020, 714, 136748.	3.9	66
27	Suspect and non-targeted screening of chemicals of emerging concern for human biomonitoring, environmental health studies and support to risk assessment: From promises to challenges and harmonisation issues. Environment International, 2020, 139, 105545.	4.8	133
28	Unraveling longitudinal pollution patterns of organic micropollutants in a river by non-target screening and cluster analysis. Science of the Total Environment, 2020, 727, 138388.	3.9	50
29	A Data Set of 255,000 Randomly Selected and Manually Classified Extracted Ion Chromatograms for Evaluation of Peak Detection Methods. Metabolites, 2020, 10, 162.	1.3	12
30	Prioritising site-specific micropollutants in surface water from LC-HRMS non-target screening data using a rarity score. Environmental Sciences Europe, 2019, 31, .	2.6	39
31	Non-targeted mercapturic acid screening in urine using LC-MS/MS with matrix effect compensation by postcolumn infusion of internal standard (PCI-IS). Analytical and Bioanalytical Chemistry, 2019, 411, 7771-7781.	1.9	12
32	Supporting non-target identification by adding hydrogen deuterium exchange MS/MS capabilities to MetFrag. Analytical and Bioanalytical Chemistry, 2019, 411, 4683-4700.	1.9	14
33	Combination of In Situ Feeding Rate Experiments and Chemical Body Burden Analysis to Assess the Influence of Micropollutants in Wastewater on Gammarus pulex. International Journal of Environmental Research and Public Health, 2019, 16, 883.	1.2	5
34	Effect of temperature, pH and total organic carbon variations on microbial turnover of 13C315N-glyphosate in agricultural soil. Science of the Total Environment, 2019, 658, 697-707.	3.9	42
35	Mixture effects in samples of multiple contaminants â€“ An inter-laboratory study with manifold bioassays. Environment International, 2018, 114, 95-106.	4.8	113
36	Solid-phase extraction as sample preparation of water samples for cell-based and other‹i›in vitro‹/i›bioassays. Environmental Sciences: Processes and Impacts, 2018, 20, 493-504.	1.7	53

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37	Characterization and risk assessment of seasonal and weather dynamics in organic pollutant mixtures from discharge of a separate sewer system. Water Research, 2018, 135, 122-133.	5.3	53
38	Performance of combined fragmentation and retention prediction for the identification of organic micropollutants by LC-HRMS. Analytical and Bioanalytical Chemistry, 2018, 410, 1931-1941.	1.9	22
39	Screening of Pesticide and Biocide Patterns As Risk Drivers in Sediments of Major European River Mouths: Ubiquitous or River Basin-Specific Contamination?. Environmental Science & Technology, 2018, 52, 2251-2260.	4.6	41
40	Effect-directed analysis (EDA) of Danube River water sample receiving untreated municipal wastewater from Novi Sad, Serbia. Science of the Total Environment, 2018, 624, 1072-1081.	3.9	58
41	A sediment extraction and cleanup method for wide-scope multitarget screening by liquid chromatographyâ€“high-resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2018, 410, 177-188.	1.9	24
42	Adaptation of Gammarus pulex to agricultural insecticide contamination in streams. Science of the Total Environment, 2018, 621, 479-485.	3.9	41
43	Identification of Unknown Antiandrogenic Compounds in Surface Waters by Effect-Directed Analysis (EDA) Using a Parallel Fractionation Approach. Environmental Science & Technology, 2018, 52, 288-297.	4.6	59
44	Pesticide Body Burden of the Crustacean Gammarus pulex as a Measure of Toxic Pressure in Agricultural Streams. Environmental Science & Technology, 2018, 52, 7823-7832.	4.6	29
45	Identification of Mutagenic Aromatic Amines in River Samples with Industrial Wastewater Impact. Environmental Science & Technology, 2017, 51, 4681-4688.	4.6	33
46	From the exposome to mechanistic understanding of chemical-induced adverse effects. Environment International, 2017, 99, 97-106.	4.8	146
47	Mutagenicity in Surface Waters: Synergistic Effects of Carboline Alkaloids and Aromatic Amines. Environmental Science & Technology, 2017, 51, 1830-1839.	4.6	45
48	Long-Term Persistence of Pesticides and TPs in Archived Agricultural Soil Samples and Comparison with Pesticide Application. Environmental Science & Technology, 2017, 51, 10642-10651.	4.6	110
49	Measuring the internal concentration of volatile organic compounds in small organisms using micro-QuEChERS coupled to LVIâ€“GCâ€“MS/MS. Analytical and Bioanalytical Chemistry, 2017, 409, 6041-6052.	1.9	8
50	Micropollutants in European rivers: A mode of action survey to support the development of effectâ€based tools for water monitoring. Environmental Toxicology and Chemistry, 2016, 35, 1887-1899.	2.2	161
51	Body burden of pesticides and wastewater-derived pollutants on freshwater invertebrates: Method development and application in the Danube River. Environmental Pollution, 2016, 214, 77-85.	3.7	49
52	High-Resolution Mass Spectrometry in the Effect-Directed Analysis of Water Resources. Comprehensive Analytical Chemistry, 2016, 71, 433-457.	0.7	3
53	Effect-Directed Analysis of Aryl Hydrocarbon Receptor Agonists in Sediments from the Three Gorges Reservoir, China. Environmental Science & Technology, 2016, 50, 11319-11328.	4.6	30
54	Optimization of LC-Orbitrap-HRMS acquisition and MZmine 2 data processing for nontarget screening of environmental samples using design of experiments. Analytical and Bioanalytical Chemistry, 2016, 408, 7905-7915.	1.9	20

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55	Anthropogenic Stressors Shape Genetic Structure: Insights from a Model Freshwater Population along a Land Use Gradient. Environmental Science & Technology, 2016, 50, 11346-11356.	4.6	36
56	Effect-directed analysis supporting monitoring of aquatic environments â€" An in-depth overview. Science of the Total Environment, 2016, 544, 1073-1118.	3.9	288
57	Microbial reporter gene assay as a diagnostic and early warning tool for the detection and characterization of toxic pollution in surface waters. Environmental Toxicology and Chemistry, 2015, 34, 2523-2532.	2.2	15
58	Multicriteria Approach To Select Polyaromatic River Mutagen Candidates. Environmental Science & Technology, 2015, 49, 2959-2968.	4.6	24
59	Detecting a wide range of environmental contaminants in human blood samplesâ€"combining QuEChERS with LC-MS and GC-MS methods. Analytical and Bioanalytical Chemistry, 2015, 407, 7047-7054.	1.9	55
60	Non-target screening with high-resolution mass spectrometry: critical review using a collaborative trial on water analysis. Analytical and Bioanalytical Chemistry, 2015, 407, 6237-6255.	1.9	489
61	Extending analysis of environmental pollutants in human urine towards screening for suspected compounds. Journal of Chromatography A, 2015, 1394, 18-25.	1.8	37
62	Linking in Vitro Effects and Detected Organic Micropollutants in Surface Water Using Mixture-Toxicity Modeling. Environmental Science & Technology, 2015, 49, 14614-14624.	4.6	164
63	Decoding and Discrimination of Chemical Cues and Signals: Avoidance of Predation and Competition during Parental Care Behavior in Sympatric Poison Frogs. PLoS ONE, 2015, 10, e0129929.	1.1	12
64	Heterocyclic Aromatic Hydrocarbons Show Estrogenic Activity upon Metabolization in a Recombinant Transactivation Assay. Environmental Science & Technology, 2014, 48, 5892-5901.	4.6	71
65	Critical source areas for herbicides can change location depending on rain events. Agriculture, Ecosystems and Environment, 2014, 192, 85-94.	2.5	29
66	Nonextractable residue formation of sulfonamide antimicrobials: New insights from soil incubation experiments. Chemosphere, 2014, 107, 366-372.	4.2	16
67	Carbamazepine and its metabolites in wastewater: Analytical pitfalls and occurrence in Germany and Portugal. Water Research, 2014, 57, 104-114.	5.3	190
68	Effect-directed analysis for estrogenic compounds in a fluvial sediment sample using transgenic cyp19a1b-GFP zebrafish embryos. Aquatic Toxicology, 2014, 154, 221-229.	1.9	34
69	Integrated biologicalâ€"chemical approach for the isolation and selection of polyaromatic mutagens in surface waters. Analytical and Bioanalytical Chemistry, 2013, 405, 9101-9112.	1.9	21
70	Novel metabolites in cyanobacterium Cylindrospermopsis raciborskii with potencies to inhibit gap junctional intercellular communication. Journal of Hazardous Materials, 2013, 262, 571-579.	6.5	11
71	Covalent Binding of Sulfamethazine to Natural and Synthetic Humic Acids: Assessing Laccase Catalysis and Covalent Bond Stability. Environmental Science & Technology, 2013, 47, 6916-6924.	4.6	60
72	Screening of Lake Sediments for Emerging Contaminants by Liquid Chromatography Atmospheric Pressure Photoionization and Electrospray Ionization Coupled to High Resolution Mass Spectrometry. Environmental Science & Technology, 2013, 47, 976-986.	4.6	131

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73	Reactions of a Sulfonamide Antimicrobial with Model Humic Constituents: Assessing Pathways and Stability of Covalent Bonding. Environmental Science & Technology, 2012, 46, 2102-2111.	4.6	48
74	Pesticide Nonextractable Residue Formation in Soil: Insights from Inverse Modeling of Degradation Time Series. Environmental Science & Technology, 2012, 46, 9830-9837.	4.6	26
75	Consensus Structure Elucidation Combining GC/EI-MS, Structure Generation, and Calculated Properties. Analytical Chemistry, 2012, 84, 3287-3295.	3.2	57
76	Spatial variability of herbicide mobilisation and transport at catchment scale: insights from a field experiment. Hydrology and Earth System Sciences, 2012, 16, 1947-1967.	1.9	66
77	Kinetic assessment and modeling of an ozonation step for full-scale municipal wastewater treatment: Micropollutant oxidation, by-product formation and disinfection. Water Research, 2011, 45, 605-617.	5.3	261
78	Water reuse: >90% water yield in MBR/RO through concentrate recycling and CO2 addition as scaling control. Water Research, 2011, 45, 6141-6151.	5.3	64
79	LCâ€“high resolution MS in environmental analysis: from target screening to the identification of unknowns. Analytical and Bioanalytical Chemistry, 2010, 397, 943-951.	1.9	615
80	Assessing the Fate of Nitrosamine Precursors in Wastewater Treatment by Physicochemical Fractionation. Environmental Science & Technology, 2010, 44, 7871-7877.	4.6	55
81	Elimination of Organic Micropollutants in a Municipal Wastewater Treatment Plant Upgraded with a Full-Scale Post-Ozonation Followed by Sand Filtration. Environmental Science & Technology, 2009, 43, 7862-7869.	4.6	726
82	Cation Binding of Antimicrobial Sulfathiazole to Leonardite Humic Acid. Environmental Science & Technology, 2009, 43, 6632-6638.	4.6	73
83	Occurrence and removal of N-nitrosamines in wastewater treatment plants. Water Research, 2009, 43, 4381-4391.	5.3	129
84	Sequestration of Manure-Applied Sulfadiazine Residues in Soils. Environmental Science & Technology, 2009, 43, 1824-1830.	4.6	140
85	Spatial and Temporal Patterns of Pharmaceuticals in the Aquatic Environment: A Review. Geography Compass, 2008, 2, 920-955.	1.5	23
86	Analysis of Nitrosamines in Wastewater:â€‰ Exploring the Trace Level Quantification Capabilities of a Hybrid Linear Ion Trap/Orbitrap Mass Spectrometer. Analytical Chemistry, 2008, 80, 834-842.	3.2	113
87	Concentrations and forms of heavy metals in Slovak soils. Journal of Plant Nutrition and Soil Science, 2005, 168, 676-686.	1.1	22
88	Polycyclic Aromatic Hydrocarbons (PAHs) in Soils of the Moscow Region- Concentrations, Temporal Trends, and Small-Scale Distribution. Journal of Environmental Quality, 2005, 34, 1581-1590.	1.0	36
89	Polycyclic Aromatic Hydrocarbon Storage in a Typical Cerrado of the Brazilian Savanna. Journal of Environmental Quality, 2004, 33, 946.	1.0	23
90	Polycyclic aromatic hydrocarbon (PAH) patterns in climatically different ecological zones of Brazil. Organic Geochemistry, 2003, 34, 1405-1417.	0.9	74

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91	Title is missing!. Journal of Plant Nutrition and Soil Science, 2003, 166, 93-101.	1.1	18
92	Carbon Isotope Signature of Polycyclic Aromatic Hydrocarbons (PAHs):Â Evidence for Different Sources in Tropical and Temperate Environments?. Environmental Science & Technology, 2002, 36, 3530-3535.	4.6	106
93	Photochemical oxidation of polycyclic aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs) in soils â€" a tool to assess their degradability?. Journal of Plant Nutrition and Soil Science, 2002, 165, 173.	1.1	10
94	Predicting heavy metal transfer from soil to plant: potential use of Freundlich-type functions. Journal of Plant Nutrition and Soil Science, 2002, 165, 3.	1.1	79
95	Sorption Strength of Persistent Organic Pollutants in Particleâ€size Fractions of Urban Soils. Soil Science Society of America Journal, 2002, 66, 430-437.	1.2	50
96	Predicting Soilâ^'Water Partitioning of Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls by Desorption with Methanolâ^'Water Mixtures at Different Temperatures. Environmental Science & Technology, 2001, 35, 2319-2325.	4.6	35
97	Biomimetic Extraction of PAHs and PCBs from Soil with Octadecyl-Modified Silica Disks To Predict Their Availability to Earthworms. Environmental Science & Technology, 2001, 35, 3931-3935.	4.6	45
98	Forest Fertilization with Wood Ash: Effect on the Distribution and Storage of Polycyclic Aromatic Hydrocarbons (PAHs) and Polychlorinated Biphenyls (PCBs). Journal of Environmental Quality, 2001, 30, 1296-1304.	1.0	38
99	Quantification of anthropogenic lead in Slovak forest and arable soils along a deposition gradient with stable lead isotope ratios. Journal of Plant Nutrition and Soil Science, 2001, 164, 303-307.	1.1	17
100	Availability of Polycyclic Aromatic Hydrocarbons (PAHs) and Polychlorinated Biphenyls (PCBs) to Earthworms in Urban Soils. Environmental Science & Technology, 2000, 34, 4335-4340.	4.6	170