

Walter Giger

List of Publications by Year in descending order

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99
papers

15,042
citations

18887

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docs citations

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times ranked

11278
citing authors

#	ARTICLE	IF	CITATIONS
1	Arsenic Contamination of Groundwater and Drinking Water in Vietnam: A Human Health Threat. <i>Environmental Science & Technology</i> , 2001, 35, 2621-2626.	4.6	930
2	Fate of sulfonamides, macrolides, and trimethoprim in different wastewater treatment technologies. <i>Science of the Total Environment</i> , 2007, 372, 361-371.	3.9	663
3	Occurrence and Sorption Behavior of Sulfonamides, Macrolides, and Trimethoprim in Activated Sludge Treatment. <i>Environmental Science & Technology</i> , 2005, 39, 3981-3989.	4.6	625
4	Environmental Exposure Assessment of Fluoroquinolone Antibacterial Agents from Sewage to Soil. <i>Environmental Science & Technology</i> , 2003, 37, 3243-3249.	4.6	618
5	Poly cyclic aromatic hydrocarbons in Recent lake sediments II. Compounds derived from biogenic precursors during early diagenesis. <i>Geochimica Et Cosmochimica Acta</i> , 1980, 44, 415-429.	1.6	615
6	Environmental Exposure and Risk Assessment of Fluoroquinolone Antibacterial Agents in Wastewater and River Water of the Glatt Valley Watershed, Switzerland. <i>Environmental Science & Technology</i> , 2002, 36, 3645-3651.	4.6	444
7	Occurrence and Fate of Macrolide Antibiotics in Wastewater Treatment Plants and in the Glatt Valley Watershed, Switzerland. <i>Environmental Science & Technology</i> , 2003, 37, 5479-5486.	4.6	419
8	Determination of Fluoroquinolone Antibacterial Agents in Sewage Sludge and Sludge-Treated Soil Using Accelerated Solvent Extraction Followed by Solid-Phase Extraction. <i>Analytical Chemistry</i> , 2002, 74, 5455-5462.	3.2	373
9	Trace Determination of Fluoroquinolone Antibacterial Agents in Urban Wastewater by Solid-Phase Extraction and Liquid Chromatography with Fluorescence Detection. <i>Analytical Chemistry</i> , 2001, 73, 3632-3638.	3.2	364
10	Polycyclic aromatic hydrocarbons in Recent lake sediments I. Compounds having anthropogenic origins. <i>Geochimica Et Cosmochimica Acta</i> , 1980, 44, 403-413.	1.6	361
11	Anaerobic Degradation of Decabromodiphenyl Ether. <i>Environmental Science & Technology</i> , 2005, 39, 1078-1083.	4.6	317
12	Trace Determination of Macrolide and Sulfonamide Antimicrobials, a Human Sulfonamide Metabolite, and Trimethoprim in Wastewater Using Liquid Chromatography Coupled to Electrospray Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 4756-4764.	3.2	283
13	Occurrence and Fate of Antibiotics as Trace Contaminants in Wastewaters, Sewage Sludges, and Surface Waters. <i>Chimia</i> , 2003, 57, 485-491.	0.3	259
14	Determination of alkylphenols and alkylphenol mono- and diethoxylates in environmental samples by high-performance liquid chromatography. <i>Analytical Chemistry</i> , 1985, 57, 1577-1583.	3.2	254
15	Polycyclic aromatic hydrocarbons in the environment. Isolation and characterization by chromatography, visible, ultraviolet, and mass spectrometry. <i>Analytical Chemistry</i> , 1974, 46, 1663-1671.	3.2	251
16	Benzotriazole and Tolyltriazole as Aquatic Contaminants. 1. Input and Occurrence in Rivers and Lakes. <i>Environmental Science & Technology</i> , 2006, 40, 7186-7192.	4.6	250
17	Occurrence and behaviour of linear alkylbenzenesulphonates, nonylphenol, nonylphenol mono- and nonylphenol diethoxylates in sewage and sewage sludge treatment. <i>Water Research</i> , 1988, 22, 1465-1472.	5.3	238
18	Benzotriazoles, Alkylphenols and Bisphenol A in Municipal Wastewaters and in the Glatt River, Switzerland. <i>Environmental Science and Pollution Research</i> , 2006, 13, 333-341.	2.7	234

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19	Occurrence, fate and antibiotic resistance of fluoroquinolone antibacterials in hospital wastewaters in Hanoi, Vietnam. <i>Chemosphere</i> , 2008, 72, 968-973.	4.2	234
20	Determination of polycyclic aromatic hydrocarbons in the environment by glass capillary gas chromatography. <i>Analytical Chemistry</i> , 1978, 50, 243-249.	3.2	228
21	Hydrological and sedimentary controls leading to arsenic contamination of groundwater in the Hanoi area, Vietnam: The impact of iron-arsenic ratios, peat, river bank deposits, and excessive groundwater abstraction. <i>Chemical Geology</i> , 2008, 249, 91-112.	1.4	227
22	Partitioning of alkylphenols and alkylphenol polyethoxylates between water and organic solvents. <i>Chemosphere</i> , 1993, 26, 1471-1478.	4.2	224
23	Combined biological and chemical assessment of estrogenic activities in wastewater treatment plant effluents. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 688-696.	1.9	214
24	Extraction and determination of sulfonamides, macrolides, and trimethoprim in sewage sludge. <i>Journal of Chromatography A</i> , 2005, 1085, 179-189.	1.8	205
25	Simultaneous determination of linear alkylbenzene sulfonates, alkylphenol polyethoxylates, and nonylphenol by high-performance liquid chromatography. <i>Analytical Chemistry</i> , 1987, 59, 1709-1715.	3.2	203
26	Increases in the polynuclear aromatic hydrocarbon content of an agricultural soil over the last century. <i>Environmental Science & Technology</i> , 1989, 23, 95-101.	4.6	200
27	Anaerobic degradation of brominated flame retardants in sewage sludge. <i>Chemosphere</i> , 2006, 64, 311-317.	4.2	189
28	Arsenic Removal from Groundwater by Household Sand Filters: A Comparative Field Study, Model Calculations, and Health Benefits. <i>Environmental Science & Technology</i> , 2006, 40, 5567-5573.	4.6	178
29	Behavior of organic compounds during infiltration of river water to groundwater. Field studies. <i>Environmental Science & Technology</i> , 1983, 17, 472-479.	4.6	177
30	Persistent organic chemicals in sewage effluents. 2. Quantitative determinations of nonylphenols and nonylphenol ethoxylates by glass capillary gas chromatography. <i>Environmental Science & Technology</i> , 1982, 16, 800-805.	4.6	176
31	Speciation and fate of ethylenediaminetetraacetate (EDTA) in municipal wastewater treatment. <i>Water Research</i> , 1996, 30, 122-134.	5.3	172
32	Aliphatic and olefinic hydrocarbons in recent sediments of Greifensee, Switzerland. <i>Geochimica Et Cosmochimica Acta</i> , 1980, 44, 119-129.	1.6	166
33	Determination of nonionic surfactants of the alkylphenol polyethoxylate type by high-performance liquid chromatography. <i>Analytical Chemistry</i> , 1985, 57, 2584-2590.	3.2	166
34	Occurrence and Mass Flows of Fluorochemicals in the Glatt Valley Watershed, Switzerland. <i>Environmental Science & Technology</i> , 2008, 42, 6369-6377.	4.6	159
35	Persistent organic chemicals in sewage effluents. 3. Determinations of nonylphenoxy carboxylic acids by high-resolution gas chromatography/mass spectrometry and high-performance liquid chromatography. <i>Environmental Science & Technology</i> , 1987, 21, 697-703.	4.6	144
36	Behaviour of NTA and EDTA in biological wastewater treatment. <i>Water Research</i> , 1990, 24, 733-742.	5.3	140

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37	Quantitative determination of sulfonated aliphatic and aromatic surfactants in sewage sludge by ion-pair/supercritical fluid extraction and derivatization gas chromatography/mass spectrometry. <i>Analytical Chemistry</i> , 1992, 64, 3161-3167.	3.2	133
38	Modeling the photochemical degradation of ethylenediaminetetraacetate in the River Glatt. <i>Environmental Science & Technology</i> , 1995, 29, 2814-2827.	4.6	133
39	Determination of linear alkylbenzenesulphonates, alkylphenol polyethoxylates and nonylphenol in waste water by high-performance liquid chromatography after enrichment on octadecylsilica. <i>Journal of Chromatography A</i> , 1987, 403, 243-252.	1.8	129
40	Occurrence and sources of selected phenolic endocrine disruptors in Ria de Aveiro, Portugal. <i>Environmental Science and Pollution Research</i> , 2010, 17, 834-843.	2.7	129
41	Mass flows of endocrine disruptors in the Glatt River during varying weather conditions. <i>Environmental Pollution</i> , 2009, 157, 714-723.	3.7	128
42	Persistent organic chemicals in sewage effluents: I. Identifications of nonylphenols and nonylphenoethoxylates by glass capillary gas chromatography / mass spectrometry. <i>Chemosphere</i> , 1981, 10, 1253-1263.	4.2	123
43	Behaviour of alkylphenol polyethoxylate surfactants in the aquatic environment – III. Occurrence and elimination of their persistent metabolites during infiltration of river water to groundwater. <i>Water Research</i> , 1996, 30, 37-46.	5.3	120
44	Aqueous solubility of alkylphenols and alkylphenol polyethoxylates. <i>Chemosphere</i> , 1993, 26, 1461-1470.	4.2	118
45	Determination of Benzene- and Naphthalenesulfonates in Wastewater by Solid-Phase Extraction with Graphitized Carbon Black and Ion-Pair Liquid Chromatography with UV Detection. <i>Analytical Chemistry</i> , 1995, 67, 2325-2333.	3.2	118
46	Nitrated phenols in rain: Atmospheric occurrence of phytotoxic pollutants. <i>Chemosphere</i> , 1988, 17, 511-515.	4.2	113
47	Determination of linear alkylbenzenesulfonates in sewage sludge by high-resolution gas chromatography/mass spectrometry. <i>Environmental Science & Technology</i> , 1986, 20, 376-383.	4.6	109
48	Isomer-Specific Degradation and Endocrine Disrupting Activity of Nonylphenols. <i>Environmental Science & Technology</i> , 2008, 42, 6399-6408.	4.6	107
49	Differential Degradation of Nonylphenol Isomers by <i>Sphingomonas xenophaga</i> Bayram. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1123-1129.	1.4	106
50	Carbon speciation and surface tension of fog. <i>Environmental Science & Technology</i> , 1990, 24, 722-727.	4.6	102
51	Perylene in sediments from the Namibian Shelf. <i>Geochimica Et Cosmochimica Acta</i> , 1979, 43, 1141-1144.	1.6	101
52	Where Have All the Fish Gone?. <i>Environmental Science & Technology</i> , 2005, 39, 441A-447A.	4.6	100
53	Temporal Trends, Congener Patterns, and Sources of Octa-, Nona-, and Decabromodiphenyl Ethers (PBDE) and Hexabromocyclododecanes (HBCD) in Swiss Lake Sediments. <i>Environmental Science & Technology</i> , 2008, 42, 6378-6384.	4.6	100
54	Recent levels of organochlorine pesticides and polychlorinated biphenyls in sediments of the sewer system in Hanoi, Vietnam. <i>Environmental Pollution</i> , 2010, 158, 913-920.	3.7	92

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55	Determination of the Quaternary Ammonium Surfactant Ditallowdimethylammonium in Digested Sludges and Marine Sediments by Supercritical Fluid Extraction and Liquid Chromatography with Postcolumn Ion-Pair Formation. <i>Analytical Chemistry</i> , 1996, 68, 921-929.	3.2	87
56	A Novel Metabolic Pathway for Degradation of 4-Nonylphenol Environmental Contaminants by <i>Sphingomonas xenophaga</i> Bayram. <i>Journal of Biological Chemistry</i> , 2005, 280, 15526-15533.	1.6	87
57	Aliphatic and polycyclic aromatic hydrocarbons in urban rain, snow and fog. <i>Atmospheric Environment</i> , 1988, 22, 695-705.	1.1	86
58	Benzotriazole is antiestrogenic in vitro but not in vivo. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 2367-2372.	2.2	85
59	Accidental input of pesticides into the Rhine River. <i>Environmental Science & Technology</i> , 1988, 22, 992-997.	4.6	84
60	Photochemical degradation of nonylphenol and nonylphenol polyethoxylates in natural waters. <i>Chemosphere</i> , 1994, 28, 1361-1368.	4.2	84
61	Hydrophobic organic chemicals in urban fog. <i>Atmospheric Environment Part A General Topics</i> , 1991, 25, 1335-1346.	1.3	75
62	Trihalomethane formation by chlorination of ammonium- and bromide-containing groundwater in water supplies of Hanoi, Vietnam. <i>Water Research</i> , 2003, 37, 3242-3252.	5.3	74
63	Long-chain perfluorinated chemicals in digested sewage sludges in Switzerland. <i>Environmental Pollution</i> , 2011, 159, 654-662.	3.7	71
64	Behavior of fluorescent whitening agents during sewage treatment. <i>Water Research</i> , 1998, 32, 1939-1947.	5.3	70
65	Seasonal and temporal changes of organic compounds in rain and snow. <i>Atmospheric Environment</i> , 1988, 22, 907-916.	1.1	65
66	Isomer-Specific Determination of 4-Nonylphenols Using Comprehensive Two-Dimensional Gas Chromatography/Time-of-Flight Mass Spectrometry. <i>Environmental Science & Technology</i> , 2009, 43, 9306-9313.	4.6	64
67	The Rhine red, the fish dead—the 1986 Schweizerhalle disaster, a retrospect and long-term impact assessment. <i>Environmental Science and Pollution Research</i> , 2009, 16, 98-111.	2.7	62
68	Occurrence of Fluorescent Whitening Agents in Sewage and River Water Determined by Solid-Phase Extraction and High-Performance Liquid Chromatography. <i>Environmental Science & Technology</i> , 1996, 30, 2220-2226.	4.6	61
69	The historical record of PCB and PCDD/F deposition at Greifensee, a lake of the Swiss plateau, between 1848 and 1999. <i>Chemosphere</i> , 2007, 67, 1754-1761.	4.2	61
70	Hydrophilic and amphiphilic water pollutants: using advanced analytical methods for classic and emerging contaminants. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 37-44.	1.9	61
71	Trace analysis of environmental matrices by large-volume injection and liquid chromatography—mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 175-186.	1.9	60
72	Selective Determination of Aromatic Sulfonates in Landfill Leachates and Groundwater Using Microbore Liquid Chromatography Coupled with Mass Spectrometry. <i>Analytical Chemistry</i> , 1999, 71, 897-904.	3.2	58

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73	Fate of secondary alkane sulfonate surfactants during municipal wastewater treatment. <i>Water Research</i> , 1995, 29, 1301-1307.	5.3	56
74	Fate of Fluorescent Whitening Agents in the River Glatt. <i>Environmental Science & Technology</i> , 1999, 33, 533-539.	4.6	54
75	Environmental fate of phenolic endocrine disruptors: field and laboratory studies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 3941-3963.	1.6	50
76	Determination of secondary alkane sulfonates in sewage wastewaters by solid-phase extraction and injection-port derivatization gas chromatography/mass spectrometry. <i>Environmental Science & Technology</i> , 1994, 28, 497-503.	4.6	48
77	Petroleum-derived and indigenous hydrocarbons in recent sediments of Lake Zug, Switzerland. <i>Environmental Science & Technology</i> , 1974, 8, 454-455.	4.6	47
78	Determination of Detergent-Derived Fluorescent Whitening Agent Isomers in Lake Sediments and Surface Waters by Liquid Chromatography. <i>Analytical Chemistry</i> , 1997, 69, 2594-2599.	3.2	47
79	Aromatic surfactants in laundry detergents and hard-surface cleaners: Linear alkylbenzenesulphonates and alkylphenol polyethoxylates. <i>Chemosphere</i> , 1988, 17, 853-863.	4.2	45
80	Determination of trace levels of phenol and cresols in rain by continuous liquid-liquid extraction and high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1987, 403, 233-241.	1.8	44
81	Determination of Alkylbenzenesulfonates in Recent Sediments by Gas Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 4923-4930.	3.2	40
82	Elucidation of the ipso-Substitution Mechanism for Side-Chain Cleavage of β -Quaternary 4-Nonylphenols and 4- <i>t</i> -Butoxyphenol in <i>Sphingobium xenophagum</i> Bayram. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3320-3326.	1.4	40
83	Polycyclic aromatic hydrocarbons and combustion aerosol photoemission. <i>Atmospheric Environment Part A General Topics</i> , 1990, 24, 2911-2916.	1.3	39
84	Mass balance for detergent-derived fluorescent whitening agents in surface waters of Switzerland. <i>Water Research</i> , 1998, 32, 2041-2050.	5.3	35
85	Occurrence and Fate of Fluoroquinolone, Macrolide, and Sulfonamide Antibiotics during Wastewater Treatment and in Ambient Waters in Switzerland. <i>ACS Symposium Series</i> , 2001, , 56-69.	0.5	33
86	Microbial degradation of nitrilotriacetate (NTA) during river water/groundwater infiltration: Laboratory column studies. <i>Water Research</i> , 1987, 21, 1237-1248.	5.3	31
87	Dynamic Behavior of Fluorescent Whitening Agents in Greifensee: A Field Measurements Combined with Mathematical Modeling of Sedimentation and Photolysis. <i>Environmental Science & Technology</i> , 1998, 32, 1875-1881.	4.6	29
88	ipso-Substitution: A General Biochemical and Biodegradation Mechanism to Cleave β -Quaternary Alkylphenols and Bisphenol A. <i>Chemistry and Biodiversity</i> , 2007, 4, 2123-2137.	1.0	25
89	ipso-Substitution – A Novel Pathway for Microbial Metabolism of Endocrine-Disrupting 4-Nonylphenols, 4-Alkoxyphenols, and Bisphenol A. <i>Chimia</i> , 2008, 62, 358.	0.3	22
90	Anthropogenic Influence on the ^{14}C Activity and Other Constituents of Recent Lake Sediments: A Case Study. <i>Radiocarbon</i> , 1992, 34, 585-592.	0.8	21

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91	Inventory of organic gases and volatiles in the marine environment. <i>Marine Chemistry</i> , 1977, 5, 429-442.	0.9	16
92	Fluorescent Whitening Agents as Molecular Markers for Domestic Wastewater in Recent Sediments of Greifensee, Switzerland. <i>ACS Symposium Series</i> , 1997, , 231-241.	0.5	12
93	p-Toluenesulfonate in Landfill Leachates: Leachability from Foundry Sands and Aerobic Biodegradation. <i>Environmental Science & Technology</i> , 2000, 34, 2156-2161.	4.6	12
94	Diagenetic polycyclic aromatic hydrocarbons in Recent sediments: Structural information obtained by high performance liquid chromatography. <i>Physics and Chemistry of the Earth</i> , 1980, 12, 353-363.	0.3	9
95	Sorption and mass fluxes of sulfonated naphthalene formaldehyde condensates in aquifers. <i>Journal of Contaminant Hydrology</i> , 2003, 67, 1-12.	1.6	8
96	Synthetic surfactants in Swiss sewage sludges: Analytical challenges, concentrations and per capita loads. <i>Science of the Total Environment</i> , 2022, 808, 151361.	3.9	8
97	Investigation of arsenic removal technologies for drinking water in Vietnam. , 2003, , 459-469.		6
98	Antibiotikaspuren auf dem Weg von Spital- und Gemeindeabwasser in die Fließgewässer: Umweltanalytische Untersuchungen über Einträge und Verhalten. , 2006, , 21-33.		3
99	Response to Comment on "Arsenic Removal from Groundwater by Household Sand Filters: A Comparative Field Study, Model Calculations, and Health Benefits"; <i>Environmental Science & Technology</i> , 2007, 41, 1053-1053.	4.6	1