Marc J -F Suter

List of Publications by Citations

98 papers	4,643 citations	36 h-index	66 g-index
103 ext. papers	5,049 ext. citations	5.5 avg, IF	5.23 L-index

#	Paper	IF	Citations
98	Occurrence and fate of macrolide antibiotics in wastewater treatment plants and in the Glatt Valley watershed, Switzerland. *Environmental Science & Technology*, **2003**, 37, 5479-86	10.3	361
97	Quantification of veterinary antibiotics (sulfonamides and trimethoprim) in animal manure by liquid chromatography-mass spectrometry. *Journal of Chromatography A*, **2002**, 952, 111-20	4.5	298
96	Trace determination of macrolide and sulfonamide antimicrobials, a human sulfonamide metabolite, and trimethoprim in wastewater using liquid chromatography coupled to electrospray tandem mass spectrometry. *Analytical Chemistry*, **2004**, 76, 4756-64	7.8	258
95	Occurrence and Fate of Antibiotics as Trace Contaminants in Wastewaters, Sewage Sludges, and Surface Waters. *Chimia*, **2003**, 57, 485-491	1.3	228
94	Comparing steroid estrogen, and nonylphenol content across a range of European sewage plants with different treatment and management practices. *Water Research*, **2005**, 39, 47-58	12.5	215
93	Binding of silver nanoparticles to bacterial proteins depends on surface modifications and inhibits enzymatic activity. *Environmental Science & Technology*, **2010**, 44, 2163-8	10.3	201
92	Combined biological and chemical assessment of estrogenic activities in wastewater treatment plant effluents. *Analytical and Bioanalytical Chemistry*, **2004**, 378, 688-96	4.4	190
91	Comparative analysis of estrogenic activity in sewage treatment plant effluents involving three in vitro assays and chemical analysis of steroids. *Environmental Toxicology and Chemistry*, **2004**, 23, 857-64	3.8	134
90	MTBE oxidation by conventional ozonation and the combination ozone/hydrogen peroxide: efficiency of the processes and bromate formation. *Environmental Science & Technology*, **2001**, 35, 4252-9	10.3	131
89	Linking toxicity and adaptive responses across the transcriptome, proteome, and phenotype of Chlamydomonas reinhardtii exposed to silver. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 3490-5	11.5	121
88	European demonstration program on the effect-based and chemical identification and monitoring of organic pollutants in European surface waters. *Science of the Total Environment*, **2017**, 601-602, 1849-1868	10.2	106
87	Characterization of environmental estrogens in river water using a three pronged approach: active and passive water sampling and the analysis of accumulated estrogens in the bile of caged fish. *Environmental Science & Technology*, **2005**, 39, 8191-8	10.3	105
86	Changes in the Enantiomeric Ratio of (R)- to (S)-Mecoprop Indicate in Situ Biodegradation of This Chiral Herbicide in a Polluted Aquifer. *Environmental Science & Technology*, **1998**, 32, 2070-2076	10.3	81
85	Where have all the fish gone? The reasons why fish catches in Swiss rivers are declining. *Environmental Science & Technology*, **2005**, 39, 441A-447A	10.3	81
84	Monitoring the removal efficiency of pharmaceuticals and hormones in different treatment processes of source-separated urine with bioassays. *Environmental Science & Technology*, **2006**, 40, 5095-101	10.3	78
83	Involvement of two alpha-ketoglutarate-dependent dioxygenases in enantioselective degradation of (R)- and (S)-mecoprop by Sphingomonas herbicidovorans MH. *Journal of Bacteriology*, **1997**, 179, 6674-9	3.5	76
82	Interaction of silver nanoparticles with algae and fish cells: a side by side comparison. *Journal of Nanobiotechnology*, **2017**, 15, 16	9.4	74

81	Proteomics for the analysis of environmental stress responses in organisms. *Environmental Science & Technology*, **2007**, 41, 6891-900	10.3	70
80	Characterization of the estrogenicity of Swiss midland rivers using a recombinant yeast bioassay and plasma vitellogenin concentrations in feral male brown trout. *Environmental Toxicology and Chemistry*, **2005**, 24, 2226-33	3.8	70
79	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. *Analytical Chemistry*, **1996**, 68, 921-9	7.8	70
78	Endocrine disrupting compounds affecting corticosteroid signaling pathways in Czech and Swiss waters: potential impact on fish. *Environmental Science & Technology*, **2014**, 48, 12902-11	10.3	61
77	Multiple-endpoint assay provides a detailed mechanistic view of responses to herbicide exposure in Chlamydomonas reinhardtii. *Aquatic Toxicology*, **2012**, 110-111, 214-24	5.1	56
76	Combining passive samplers and biomonitors to evaluate endocrine disrupting compounds in a wastewater treatment plant by LC/MS/MS and bioassay analyses. *Environmental Pollution*, **2009**, 157, 2716-21	9.3	55
75	The endocrine disrupting potential of sediments from the Upper Danube River (Germany) as revealed by in vitro bioassays and chemical analysis. *Environmental Science and Pollution Research*, **2011**, 18, 446-60	5.1	54
74	Global proteomics analysis of testis and ovary in adult zebrafish (Danio rerio). *Fish Physiology and Biochemistry*, **2011**, 37, 619-47	2.7	52
73	Benzene- and naphthalenesulfonates in leachates and plumes of landfills. *Water Research*, **2000**, 34, 2069-2079	4.5	51
72	Fate of the herbicides mecoprop, dichlorprop, and 2,4-D in aerobic and anaerobic sewage sludge as determined by laboratory batch studies and enantiomer-specific analysis. *Biodegradation*, **1999**, 10, 271-8	4.1	51
71	Water temperature and concomitant waterborne ethinylestradiol exposure affects the vitellogenin expression in juvenile brown trout (Salmo trutta). *Aquatic Toxicology*, **2008**, 90, 188-96	5.1	49
70	Selective determination of aromatic sulfonates in landfill leachates and groundwater using microbore liquid chromatography coupled with mass spectrometry. *Analytical Chemistry*, **1999**, 71, 897-904	7.8	49
69	On the conformation-dependent neutralization theory and charging of individual proteins and their non-covalent complexes in the gas phase. *Journal of Mass Spectrometry*, **2004**, 39, 93-7	2.2	48
68	Assessment of a novel device for onsite integrative large-volume solid phase extraction of water samples to enable a comprehensive chemical and effect-based analysis. *Science of the Total Environment*, **2017**, 581-582, 350-358	10.2	42
67	Critical influence of chloride ions on silver ion-mediated acute toxicity of silver nanoparticles to zebrafish embryos. *Nanotoxicology*, **2015**, 9, 81-91	5.3	42
66	LC-MS/MS determination of potential endocrine disruptors of cortico signalling in rivers and wastewaters. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 7653-65	4.4	42
65	Biochemical and genetic investigation of initial reactions in aerobic degradation of the bile acid cholate in Pseudomonas sp. strain Chol1. *Journal of Bacteriology*, **2007**, 189, 7165-73	3.5	42
64	Analysis of environmental stress response on the proteome level. *Mass Spectrometry Reviews*, **2008** , 27, 556-74	11	40

63	Estrogenicity patterns in the Swiss midland river Lützelmurg in relation to treated domestic sewage effluent discharges and hydrology. *Environmental Toxicology and Chemistry*, **2006**, 25, 2413-22	3.8	38
62	Behavior of aliphatic alcohol polyethoxylates and their metabolites under standardized aerobic biodegradation conditions. *Environmental Toxicology and Chemistry*, **2000**, 19, 549-554	3.8	36
61	Silver nanoparticle–protein interactions in intact rainbow trout gill cells. *Environmental Science: Nano*, **2016**, 3, 1174-1185	7.1	35
60	Recent advances in liquid chromatography-mass spectrometry and capillary zone electrophoresis-mass spectrometry for protein analysis. *Journal of Chromatography A*, **1991**, 553, 101-16	4.5	34
59	Evolution of egg coats: linking molecular biology and ecology. *Molecular Ecology*, **2015**, 24, 4052-73	5.7	33
58	Degradation of the acyl side chain of the steroid compound cholate in Pseudomonas sp. strain Chol1 proceeds via an aldehyde intermediate. *Journal of Bacteriology*, **2013**, 195, 585-95	3.5	32
57	Degradation of and sensitivity to cholate in Pseudomonas sp. strain Chol1. *Archives of Microbiology*, **2006**, 185, 192-201	3	32
56	Linking proteome responses with physiological and biochemical effects in herbicide-exposed Chlamydomonas reinhardtii. *Journal of Proteomics*, **2012**, 75, 5370-85	3.9	28
55	Continuous-flow fast atom bombardment: recent advances and applications. *International Journal of Mass Spectrometry and Ion Processes*, **1992**, 118-119, 449-476		28
54	Phenotypic plasticity influences the eco-evolutionary dynamics of a predator–prey system. *Ecology*, **2014**, 95, 3080-3092	4.6	27
53	Analysis of protein expression in zebrafish during gonad differentiation by targeted proteomics. *General and Comparative Endocrinology*, **2013**, 193, 210-20	3	27
52	Determination of [S,S]-ethylenediamine disuccinic acid (EDDS) by high performance liquid chromatography after derivatization with FMOC. *Journal of Chromatography A*, **2005**, 1077, 37-43	4.5	26
51	Identification of the estrogen receptor Cd-binding sites by chemical modification. *Analyst, The*, **2005**, 130, 1087-97	5	24
50	Desulfonation and degradation of the disulfodiphenylethercarboxylates from linear alkyldiphenyletherdisulfonate surfactants. *Applied and Environmental Microbiology*, **2003**, 69, 938-44	4.8	24
49	Leaching and primary biodegradation of sulfonated naphthalenes and their formaldehyde condensates from concrete superplasticizers in groundwater affected by tunnel construction. *Environmental Science & Technology*, **2002**, 36, 3284-9	10.3	24
48	Investigating the accumulation and translocation of titanium dioxide nanoparticles with different surface modifications in static and dynamic human placental transfer models. *European Journal of Pharmaceutics and Biopharmaceutics*, **2019**, 142, 488-497	5.7	23
47	Toxicity of emerging antifouling biocides to non-target freshwater organisms from three trophic levels. *Aquatic Toxicology*, **2017**, 191, 164-174	5.1	23
46	An integral probe for capillary zone electrophoresis/continuous-flow fast atom bombardment mass spectrometry. *Journal of the American Society for Mass Spectrometry*, **1992**, 3, 198-206	3.5	23

45	Glutathione S-Transferase Protein Expression in Different Life Stages of Zebrafish (Danio rerio). *Toxicological Sciences*, **2018**, 162, 702-712	4.4	22
44	Acute toxicity of tralopyril, capsaicin and triphenylborane pyridine to marine invertebrates. *Ecotoxicology*, **2014**, 23, 1336-44	2.9	22
43	Chemical and biological characterization of estrogenicity in effluents from WWTPs in Ria de Aveiro (NW Portugal). *Archives of Environmental Contamination and Toxicology*, **2010**, 58, 1-8	3.2	21
42	Estrogenic Endocrine Disruption in Switzerland: Assessment of Fish Exposure and Effects. *Chimia*, **2008**, 62, 376-382	1.3	20
41	An integrative approach combining passive sampling, bioassays, and effect-directed analysis to assess the impact of wastewater effluent. *Environmental Toxicology and Chemistry*, **2018**, 37, 2079-2088	3.8	18
40	Hydroxyhydroquinone reductase, the initial enzyme involved in the degradation of hydroxyhydroquinone (1,2,4-trihydroxybenzene) by Desulfovibrio inopinatus. *Archives of Microbiology*, **2000**, 173, 206-12	3	18
39	Stressor-induced proteome alterations in zebrafish: a meta-analysis of response patterns. *Aquatic Toxicology*, **2015**, 159, 1-12	5.1	17
38	LC-MS/MS determination of tralopyril in water samples. *Chemosphere*, **2016**, 145, 445-9	8.4	17
37	Tralopyril bioconcentration and effects on the gill proteome of the Mediterranean mussel Mytilus galloprovincialis. *Aquatic Toxicology*, **2016**, 177, 198-210	5.1	17
36	Effect of cadmium on the interaction of 17beta-estradiol with the rainbow trout estrogen receptor. *Environmental Science & Technology*, **2006**, 40, 1358-63	10.3	17
35	Effect of corn root exudates on the degradation of atrazine and its chlorinated metabolites in soils. *Journal of Environmental Quality*, **2005**, 34, 2187-96	3.4	16
34	Gonadal Malformations in Whitefish from Lake Thun: Defining the Case and Evaluating the Role of EDCs. *Chimia*, **2008**, 62, 383-388	1.3	15
33	Rapid determination of sulfonated naphthalenes and their formaldehyde condensates in aqueous environmental samples using synchronous excitation fluorimetry. *Analyst, The*, **2001**, 126, 2072-7	5	15
32	Clobetasol propionate causes immunosuppression in zebrafish (Danio rerio) at environmentally relevant concentrations. *Ecotoxicology and Environmental Safety*, **2017**, 138, 16-24	7	14
31	Internal exposure of whitefish (Coregonus lavaretus) to estrogens. *Aquatic Toxicology*, **2009**, 93, 158-65	5.1	13
30	Sensitivity of brown trout reproduction to long-term estrogenic exposure. *Aquatic Toxicology*, **2008**, 90, 65-72	5.1	13
29	Estrogens in Swiss Rivers and Effluents Sampling Matters. *Chimia*, **2008**, 62, 389-394	1.3	12
28	Endocrine disrupting chemicals-Linking internal exposure to vitellogenin levels and ovotestis in Abramis brama from Dutch surface waters. *Environmental Toxicology and Pharmacology*, **2010**, 30, 209-23	5.8	11

27	Analytical chemistry and ecotoxicology--tasks, needs and trends. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2007**, 70, 724-6	3.2	11
26	p-Toluenesulfonate in Landfill Leachates: Leachability from Foundry Sands and Aerobic Biodegradation. *Environmental Science & Technology*, **2000**, 34, 2156-2161	10.3	11
25	Differentiation of Linear and Branched Alkylbenzenesulfonates by Gas Chromatography/Tandem Mass Spectrometry. *Journal of Mass Spectrometry*, **1996**, 31, 357-362	2.2	11
24	Multimode gradient high performance liquid chromatography mass spectrometry method applicable to metabolomics and environmental monitoring. *Journal of Chromatography A*, **2016**, 1456, 145-51	4.5	10
23	Transient exposure to environmental estrogen affects embryonic development of brown trout (Salmo trutta fario). *Aquatic Toxicology*, **2014**, 157, 141-9	5.1	10
22	Mechanistic basis of adaptive maternal effects: egg jelly water balance mediates embryonic adaptation to acidity in Rana arvalis. *Oecologia*, **2015**, 179, 617-28	2.9	10
21	Characterization of lead-phytochelatin complexes by nano-electrospray ionization mass spectrometry. *Frontiers in Microbiology*, **2012**, 3, 41	5.7	9
20	On the acquisition of +1 charge states during high-throughput proteomics: Implications on reproducibility, number and confidence of protein identifications. *Journal of Proteomics*, **2009**, 72, 761-70	3.9	9
19	TfdD(II), one of the two chloromuconate cycloisomerases of Ralstonia eutropha JMP134 (pJP4), cannot efficiently convert 2-chloro- cis, cis-muconate to trans-dienelactone to allow growth on 3-chlorobenzoate. *Archives of Microbiology*, **2002**, 178, 13-25	3	9
18	Hexachlorobenzene exerts genotoxic effects in a humpback whale cell line under stable exposure conditions.. *RSC Advances*, **2019**, 9, 39447-39457	3.7	8
17	Molecular phenotyping of maternally mediated parallel adaptive divergence within Rana arvalis and Rana temporaria. *Molecular Ecology*, **2016**, 25, 4564-79	5.7	6
16	Sorption and mass fluxes of sulfonated naphthalene formaldehyde condensates in aquifers. *Journal of Contaminant Hydrology*, **2003**, 67, 1-12	3.9	6
15	LC-APCI(-)-MS Determination of 1-Chloro-2,4-dinitrobenzene, a Model Substrate for Glutathione S-Transferases. *Journal of the American Society for Mass Spectrometry*, **2020**, 31, 467-472	3.5	5
14	Mass spectrometry in environmental toxicology. *Chimia*, **2014**, 68, 140-5	1.3	5
13	Eine Weight-of-Evidence-Studie zur Bewertung der Sedimentbelastung und des Fischr□kgangs in der Oberen Donau. *Environmental Sciences Europe*, **2009**, 21, 260-263		5
12	Biotransformation Capacity of Zebrafish (Danio rerio) Early Life Stages: Functionality of the Mercapturic Acid Pathway. *Toxicological Sciences*, **2020**, 176, 355-365	4.4	4
11	Investigation of small-scale processes in the rhizosphere of Lupinus albus using micro push-pull tests. *Plant and Soil*, **2014**, 378, 309-324	4.2	4
10	Proteome evolution under non-substitutable resource limitation. *Nature Communications*, **2018**, 9, 4650	17.4	3

9	Proteomics for the Analysis of Environmental Stress Responses in Prokaryotes **2011**, 603-625		1
8	Characterization of the Mercapturic Acid Pathway, an Important Phase II Biotransformation Route, in a Zebrafish Embryo Cell Line. *Chemical Research in Toxicology*, **2020**, 33, 2863-2871	4	0
7	Conference Report. *Chimia*, **2018**, 72, 434-435	1.3	
6	Mass Spectrometry in Environmental Chemistry and Toxicology. *NATO Science for Peace and Security Series A: Chemistry and Biology*, **2017**, 159-176	0.1	
5	Multimode Separation for Metabolomics and Complex Environmental Samples. *Chimia*, **2017**, 71, 242	1.3	
4	Mass Spectrometric Target Analysis and Proteomics in Environmental Toxicology. *NATO Science for Peace and Security Series A: Chemistry and Biology*, **2014**, 149-167	0.1	
3	Formation of a new C?C bond in a sulfonenamide upon SO2 elimination induced by electron impact ionization. *International Journal of Mass Spectrometry and Ion Processes*, **1988**, 86, 201-208		
2	Continuous-flow fast atom bombardment: recent advances and applications **1992**, 449-476		
1	The Determination of Polar Compounds in the Aquatic Environment **1997**, 559-573		