Jerker Fick

List of Publications by Citations

128 papers	7,234 citations	46 h-index	83 g-index
129 ext. papers	8,463 ext. citations	7.5 avg, IF	6.07 L-index

#	Paper	IF	Citations
128	EU-wide monitoring survey on emerging polar organic contaminants in wastewater treatment plant effluents. *Water Research*, **2013**, 47, 6475-87	12.5	746
127	Contamination of surface, ground, and drinking water from pharmaceutical production. *Environmental Toxicology and Chemistry*, **2009**, 28, 2522-7	3.8	588
126	Pyrosequencing of antibiotic-contaminated river sediments reveals high levels of resistance and gene transfer elements. *PLoS ONE*, **2011**, 6, e17038	3.7	379
125	Ecological effects of pharmaceuticals in aquatic systems--impacts through behavioural alterations. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369,	5.8	267
124	Determination of sorption of seventy-five pharmaceuticals in sewage sludge. *Water Research*, **2011**, 45, 4470-82	12.5	200
123	Critical knowledge gaps and research needs related to the environmental dimensions of antibiotic resistance. *Environment International*, **2018**, 117, 132-138	12.9	183
122	Therapeutic levels of levonorgestrel detected in blood plasma of fish: results from screening rainbow trout exposed to treated sewage effluents. *Environmental Science & Technology*, **2010**, 44, 2661-6	10.3	174
121	Predicted critical environmental concentrations for 500 pharmaceuticals. *Regulatory Toxicology and Pharmacology*, **2010**, 58, 516-23	3.4	156
120	Elucidating selection processes for antibiotic resistance in sewage treatment plants using metagenomics. *Science of the Total Environment*, **2016**, 572, 697-712	10.2	152
119	Occurrence and behaviour of 105 active pharmaceutical ingredients in sewage waters of a municipal sewer collection system. *Water Research*, **2014**, 58, 221-9	12.5	144
118	Shotgun metagenomics reveals a wide array of antibiotic resistance genes and mobile elements in a polluted lake in India. *Frontiers in Microbiology*, **2014**, 5, 648	5.7	144
117	Occurrence and abundance of antibiotics and resistance genes in rivers, canal and near drug formulation facilities--a study in Pakistan. *PLoS ONE*, **2013**, 8, e62712	3.7	136
116	A diverse suite of pharmaceuticals contaminates stream and riparian food webs. *Nature Communications*, **2018**, 9, 4491	17.4	118
115	Screening of biocides, metals and antibiotics in Swedish sewage sludge and wastewater. *Water Research*, **2017**, 115, 318-328	12.5	115
114	Multi-residue method for trace level determination of pharmaceuticals in environmental samples using liquid chromatography coupled to triple quadrupole mass spectrometry. *Talanta*, **2012**, 100, 183-95	6.2	113
113	Fluoroquinolones and qnr genes in sediment, water, soil, and human fecal flora in an environment polluted by manufacturing discharges. *Environmental Science & Technology*, **2014**, 48, 7825-32	10.3	111
112	Improving environmental risk assessment of human pharmaceuticals. *Environmental Science & Technology*, **2015**, 49, 5336-45	10.3	106

111	Bioaccumulation of psychoactive pharmaceuticals in fish in an effluent dominated stream. *Water Research*, **2017**, 124, 654-662	12.5	98
110	Required ozone doses for removing pharmaceuticals from wastewater effluents. *Science of the Total Environment*, **2013**, 456-457, 42-9	10.2	92
109	Tissue-specific bioconcentration of antidepressants in fish exposed to effluent from a municipal sewage treatment plant. *Science of the Total Environment*, **2014**, 488-489, 46-50	10.2	90
108	Algal cultivation in urban wastewater: an efficient way to reduce pharmaceutical pollutants. *Journal of Applied Phycology*, **2017**, 29, 255-262	3.2	90
107	Screening of antimycotics in Swedish sewage treatment plants--waters and sludge. *Water Research*, **2010**, 44, 649-57	12.5	86
106	Urban wastewater effluent increases antibiotic resistance gene concentrations in a receiving northern European river. *Environmental Toxicology and Chemistry*, **2015**, 34, 192-6	3.8	85
105	Bioaccumulation of five pharmaceuticals at multiple trophic levels in an aquatic food web - Insights from a field experiment. *Science of the Total Environment*, **2016**, 568, 208-215	10.2	81
104	An evaluation of free water surface wetlands as tertiary sewage water treatment of micro-pollutants. *Ecotoxicology and Environmental Safety*, **2012**, 78, 63-71	7	79
103	Strategies for monitoring the emerging polar organic contaminants in water with emphasis on integrative passive sampling. *Journal of Chromatography A*, **2009**, 1216, 623-30	4.5	76
102	Antiviral oseltamivir is not removed or degraded in normal sewage water treatment: implications for development of resistance by influenza A virus. *PLoS ONE*, **2007**, 2, e986	3.7	75
101	Diclofenac in fish: blood plasma levels similar to human therapeutic levels affect global hepatic gene expression. *Environmental Toxicology and Chemistry*, **2011**, 30, 2126-34	3.8	73
100	Effect of OH radicals, relative humidity, and time on the composition of the products formed in the ozonolysis of β-pinene. *Atmospheric Environment*, **2003**, 37, 4087-4096	5.3	73
99	Efficient removal of antibiotics in surface-flow constructed wetlands, with no observed impact on antibiotic resistance genes. *Science of the Total Environment*, **2014**, 476-477, 29-37	10.2	72
98	Pharmaceutical residues are widespread in Baltic Sea coastal and offshore waters - Screening for pharmaceuticals and modelling of environmental concentrations of carbamazepine. *Science of the Total Environment*, **2018**, 633, 1496-1509	10.2	71
97	A snapshot of illicit drug use in Sweden acquired through sewage water analysis. *Science of the Total Environment*, **2014**, 472, 862-71	10.2	69
96	Toward sustainable environmental quality: Priority research questions for Europe. *Environmental Toxicology and Chemistry*, **2018**, 37, 2281-2295	3.8	68
95	Formation and chlorination of polychlorinated naphthalenes (PCNs) in the post-combustion zone during MSW combustion. *Chemosphere*, **2008**, 72, 1138-44	8.4	68
94	Multi-year inter-laboratory exercises for the analysis of illicit drugs and metabolites in wastewater: Development of a quality control system. *TrAC - Trends in Analytical Chemistry*, **2018**, 103, 34-43	14.6	62

93	Transparency throughout the production chain--a way to reduce pollution from the manufacturing of pharmaceuticals?. *Regulatory Toxicology and Pharmacology*, **2009**, 53, 161-3	3.4	60
92	The synthetic progestin levonorgestrel is a potent androgen in the three-spined stickleback (Gasterosteus aculeatus). *Environmental Science & Technology*, **2013**, 47, 2043-51	10.3	59
91	LC-MS/MS determination of antiretroviral drugs in influents and effluents from wastewater treatment plants in KwaZulu-Natal, South Africa. *Chemosphere*, **2018**, 200, 660-670	8.4	58
90	Detection of the antiviral drug oseltamivir in aquatic environments. *PLoS ONE*, **2009**, 4, e6064	3.7	56
89	The development and application of a system for simultaneously determining anti-infectives and nasal decongestants using on-line solid-phase extraction and liquid chromatography-tandem mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*, **2012**, 66, 24-32	3.5	53
88	Pharmaceutical industry effluent diluted 1:500 affects global gene expression, cytochrome P450 1A activity, and plasma phosphate in fish. *Environmental Toxicology and Chemistry*, **2009**, 28, 2639-47	3.8	53
87	Selective concentration for ciprofloxacin resistance in Escherichia coli grown in complex aquatic bacterial biofilms. *Environment International*, **2018**, 116, 255-268	12.9	49
86	Exposure to wastewater effluent affects fish behaviour and tissue-specific uptake of pharmaceuticals. *Science of the Total Environment*, **2017**, 605-606, 578-588	10.2	49
85	Environmental fate of the antiviral drug Tamiflu in two aquatic ecosystems. *Chemosphere*, **2009**, 75, 28-33	8.4	47
84	GABAergic anxiolytic drug in water increases migration behaviour in salmon. *Nature Communications*, **2016**, 7, 13460	17.4	47
83	Ozone removal in the sampling of parts per billion levels of terpenoid compounds: an evaluation of different scrubber materials. *Environmental Science & Technology*, **2001**, 35, 1458-62	10.3	46
82	Removal of oseltamivir (Tamiflu) and other selected pharmaceuticals from wastewater using a granular bioplastic formulation entrapping propagules of Phanerochaete chrysosporium. *Chemosphere*, **2010**, 81, 436-43	8.4	45
81	Environmental levels of the antiviral oseltamivir induce development of resistance mutation H274Y in influenza A/H1N1 virus in mallards. *PLoS ONE*, **2011**, 6, e24742	3.7	44
80	Concentration and reduction of antibiotic residues in selected wastewater treatment plants and receiving waterbodies in Durban, South Africa. *Science of the Total Environment*, **2019**, 678, 10-20	10.2	41
79	Environmental concentrations of an androgenic progestin disrupts the seasonal breeding cycle in male three-spined stickleback (Gasterosteus aculeatus). *Aquatic Toxicology*, **2014**, 147, 84-91	5.1	40
78	Intra- and inter-pandemic variations of antiviral, antibiotics and decongestants in wastewater treatment plants and receiving rivers. *PLoS ONE*, **2014**, 9, e108621	3.7	40
77	Risks of hormonally active pharmaceuticals to amphibians: a growing concern regarding progestagens. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369,	5.8	38
76	Clotrimazole exposure modulates aromatase activity in gonads and brain during gonadal differentiation in Xenopus tropicalis frogs. *Aquatic Toxicology*, **2009**, 91, 102-9	5.1	38

75	Effect of full-scale ozonation and pilot-scale granular activated carbon on the removal of biocides, antimycotics and antibiotics in a sewage treatment plant. *Science of the Total Environment*, **2019**, 649, 1117-1123	10.2	38
74	Screening of benzodiazepines in thirty European rivers. *Chemosphere*, **2017**, 176, 324-332	8.4	37
73	Dissipation and removal of oseltamivir (Tamiflu) in different aquatic environments. *Chemosphere*, **2010**, 79, 891-7	8.4	37
72	Population-level surveillance of antibiotic resistance in through sewage analysis. *Eurosurveillance*, **2019**, 24,	19.8	36
71	Diclofenac affects kidney histology in the three-spined stickleback (Gasterosteus aculeatus) at low □g/L concentrations. *Aquatic Toxicology*, **2017**, 189, 87-96	5.1	36
70	Environmental relevant levels of a benzodiazepine (oxazepam) alters important behavioral traits in a common planktivorous fish, (Rutilus rutilus). *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2017**, 80, 963-970	3.2	35
69	Does waterborne citalopram affect the aggressive and sexual behaviour of rainbow trout and guppy?. *Journal of Hazardous Materials*, **2011**, 187, 596-9	12.8	33
68	Formation of oxidation products in a ventilation system. *Atmospheric Environment*, **2004**, 38, 5895-5899	5.3	31
67	Does ketoprofen or diclofenac pose the lowest risk to fish?. *Journal of Hazardous Materials*, **2012**, 229-230, 100-6	12.8	30
66	A Comprehensive Screening of Escherichia coli Isolates from Scandinavia□s Largest Sewage Treatment Plant Indicates No Selection for Antibiotic Resistance. *Environmental Science & Technology*, **2018**, 52, 11419-11428	10.3	30
65	Resistance Mutations in gyrA and parC are Common in Escherichia Communities of both Fluoroquinolone-Polluted and Uncontaminated Aquatic Environments. *Frontiers in Microbiology*, **2015**, 6, 1355	5.7	29
64	Using carbonized low-cost materials for removal of chemicals of environmental concern from water. *Environmental Science and Pollution Research*, **2018**, 25, 15793-15801	5.1	28
63	Disrupted oogenesis in the frog Xenopus tropicalis after exposure to environmental progestin concentrations. *Biology of Reproduction*, **2012**, 86, 126	3.9	28
62	Effect of bioconcentration and trophic transfer on realized exposure to oxazepam in 2 predators, the dragonfly larvae (Aeshna grandis) and the Eurasian perch (Perca fluviatilis). *Environmental Toxicology and Chemistry*, **2016**, 35, 930-7	3.8	28
61	Behavioural effects of psychoactive pharmaceutical exposure on European perch (Perca fluviatilis) in a multi-stressor environment. *Science of the Total Environment*, **2019**, 655, 1311-1320	10.2	26
60	Fish on steroids: Temperature-dependent effects of 17□trenbolone on predator escape, boldness, and exploratory behaviors. *Environmental Pollution*, **2019**, 245, 243-252	9.3	26
59	Developmental exposure to progestins causes male bias and precocious puberty in zebrafish (Danio rerio). *Aquatic Toxicology*, **2016**, 177, 316-23	5.1	25
58	Detailed mass flows and removal efficiencies for biocides and antibiotics in Swedish sewage treatment plants. *Science of the Total Environment*, **2018**, 640-641, 327-336	10.2	25

57	Effects of Transient Combustion Conditions on the Formation of Polychlorinated Dibenzo-p-Dioxins, Dibenzofurans, and Benzenes, and Polycyclic Aromatic Hydrocarbons During Municipal Solid Waste Incineration. *Environmental Engineering Science*, **2009**, 26, 509-520	2	24
56	Compliance to oseltamivir among two populations in Oxfordshire, United Kingdom affected by influenza A(H1N1)pdm09, November 2009--a waste water epidemiology study. *PLoS ONE*, **2013**, 8, e60221	3.7	24
55	Drug-Induced Behavioral Changes: Using Laboratory Observations to Predict Field Observations. *Frontiers in Environmental Science*, **2016**, 4,	4.8	24
54	Long-term application of Swedish sewage sludge on farmland does not cause clear changes in the soil bacterial resistome. *Environment International*, **2020**, 137, 105339	12.9	22
53	Effects of sulfur on PCDD/F formation under stable and transient combustion conditions during MSW incineration. *Chemosphere*, **2009**, 76, 767-73	8.4	22
52	Mixture effects of levonorgestrel and ethinylestradiol: estrogenic biomarkers and hormone receptor mRNA expression during sexual programming. *Aquatic Toxicology*, **2015**, 161, 146-53	5.1	21
51	Abundance and dynamics of antibiotic resistance genes and integrons in lake sediment microcosms. *PLoS ONE*, **2014**, 9, e108151	3.7	21
50	Upscaling behavioural studies to the field using acoustic telemetry. *Aquatic Toxicology*, **2016**, 170, 384-389	5.1	18
49	Ozonolysis of monoterpenes in mechanical ventilation systems. *Atmospheric Environment*, **2005**, 39, 6315-6325	3.9	18
48	Investigating tissue bioconcentration and the behavioural effects of two pharmaceutical pollutants on sea trout (Salmo trutta) in the laboratory and field. *Aquatic Toxicology*, **2019**, 207, 170-178	5.1	18
47	A study of the gas-phase ozonolysis of terpenes: the impact of radicals formed during the reaction. *Atmospheric Environment*, **2002**, 36, 3299-3308	5.3	17
46	Effects of an antihistamine on carbon and nutrient recycling in streams. *Science of the Total Environment*, **2015**, 538, 240-5	10.2	16
45	Post-combustion formation of PCDD, PCDF, PCBz, and PCPh in a laboratory-scale reactor: influence of dibenzo-p-dioxin injection. *Chemosphere*, **2009**, 76, 818-25	8.4	15
44	Selective concentrations for trimethoprim resistance in aquatic environments. *Environment International*, **2020**, 144, 106083	12.9	15
43	Chronic Exposure to Oxazepam Pollution Produces Tolerance to Anxiolytic Effects in Zebrafish (). *Environmental Science & Technology*, **2020**, 54, 1760-1769	10.3	14
42	Low concentrations of the benzodiazepine drug oxazepam induce anxiolytic effects in wild-caught but not in laboratory zebrafish. *Science of the Total Environment*, **2020**, 703, 134701	10.2	14
41	Behavioural alterations induced by the anxiolytic pollutant oxazepam are reversible after depuration in a freshwater fish. *Science of the Total Environment*, **2019**, 665, 390-399	10.2	13
40	Effects of ozonated sewage effluent on reproduction and behavioral endpoints in zebrafish (Danio rerio). *Aquatic Toxicology*, **2018**, 200, 93-101	5.1	12

39	Less anxious salmon smolt become easy prey during downstream migration. *Science of the Total Environment*, **2019**, 687, 488-493	10.2	11
38	Molecular and histological endpoints for developmental reproductive toxicity in Xenopus tropicalis: Levonorgestrel perturbs anti-Müllerian hormone and progesterone receptor expression. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2016**, 181-182, 9-18	3.2	11
37	Tissue-specific uptake of the benzodiazepine oxazepam in adult Eurasian perch (Perca fluviatilis). *Environmental Chemistry*, **2016**, 13, 849	3.2	10
36	A multivariate chemical similarity approach to search for drugs of potential environmental concern. *Journal of Chemical Information and Modeling*, **2011**, 51, 1788-94	6.1	10
35	Slow-Release Implants for Manipulating Contaminant Exposures in Aquatic Wildlife: A New Tool for Field Ecotoxicology. *Environmental Science & Technology*, **2019**, 53, 8282-8290	10.3	9
34	Waterborne beclomethasone dipropionate affects the physiology of fish while its metabolite beclomethasone is not taken up. *Science of the Total Environment*, **2015**, 511, 37-46	10.2	9
33	The Influence of O3, Relative Humidity, NO and NO2 on the Oxidation of □Pinene and □-Carene. *Journal of Atmospheric Chemistry*, **2004**, 48, 173-189	3.2	9
32	Neuroactive drugs and other pharmaceuticals found in blood plasma of wild European fish. *Environment International*, **2021**, 146, 106188	12.9	9
31	Home alone-The effects of isolation on uptake of a pharmaceutical contaminant in a social fish. *Aquatic Toxicology*, **2016**, 180, 71-77	5.1	8
30	Oral exposure to industrial effluent with exceptionally high levels of drugs does not indicate acute toxic effects in rats. *Environmental Toxicology and Chemistry*, **2013**, 32, 577-84	3.8	8
29	Multivariate chemical mapping of antibiotics and identification of structurally representative substances. *Environmental Science & Technology*, **2007**, 41, 1653-61	10.3	8
28	Development of a NO2 scrubber for accurate sampling of ambient levels of terpenes. *Atmospheric Environment*, **2002**, 36, 1443-1452	5.3	8
27	Evidence for selection of multi-resistant E. coli by hospital effluent. *Environment International*, **2021** , 150, 106436	12.9	8
26	Identification of resistant pharmaceuticals in ozonation using QSAR modeling and their fate in electro-peroxone process. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 1	5.8	7
25	An experimental comparison of a kinetic model for the reaction of alpha-pinene and Delta(3)-carene with ozone and nitrogen oxides. *Indoor Air*, **2004**, 14 Suppl 8, 75-83	5.4	6
24	Naproxen affects multiple organs in fish but is still an environmentally better alternative to diclofenac. *Aquatic Toxicology*, **2020**, 227, 105583	5.1	6
23	Investigating the effects of municipal and hospital wastewaters on horizontal gene transfer. *Environmental Pollution*, **2021**, 276, 116733	9.3	6
22	High-speed imaging reveals how antihistamine exposure affects escape behaviours in aquatic insect prey. *Science of the Total Environment*, **2019**, 648, 1257-1262	10.2	6

21	Extraction of active pharmaceutical ingredients from simulated spent activated carbonaceous adsorbents. *Environmental Science and Pollution Research*, **2020**, 27, 25572-25581	5.1	5
20	Streamlined combustion gas measurements for improved national dioxin inventories. *Environmental Science & Technology*, **2008**, 42, 9255-61	10.3	5
19	Screening of pharmaceuticals in coastal waters of the southern coast of Viti Levu in Fiji, South Pacific. *Chemosphere*, **2021**, 276, 130161	8.4	5
18	Bioconcentration of neuroactive pharmaceuticals in fish: Relation to lipophilicity, experimental design and toxicity in the aquatic environment.. *Science of the Total Environment*, **2021**, 812, 152543	10.2	4
17	Acid-Induced Phosphorus Release from Hydrothermally Carbonized Sewage Sludge. *Waste and Biomass Valorization*,1	3.2	4
16	Rethinking chemistry in higher education towards technology-enhanced problem-based learning. *Education Inquiry*, **2016**, 7, 27287	1.5	4
15	Novel metabolomic method to assess the effect-based removal efficiency of advanced wastewater treatment techniques. *Environmental Chemistry*, **2020**, 17, 1-5	3.2	3
14	Environmentally relevant concentrations of the common anxiolytic pharmaceutical oxazepam do not have acute effect on spawning behavior in mature male Atlantic salmon (Salmo salar) parr. *Journal of Applied Ichthyology*, **2020**, 36, 105-112	0.9	3
13	Impacts of Oxazepam on Perch () Behavior: Fish Familiarized to Lake Conditions Do Not Show Predicted Anti-anxiety Response. *Environmental Science & Technology*, **2021**, 55, 3624-3633	10.3	3
12	Do environmental pharmaceuticals affect the composition of bacterial communities in a freshwater stream? A case study of the Knivsta river in the south of Sweden. *Science of the Total Environment*, **2021**, 763, 142991	10.2	3
11	Using laboratory incubations to predict the fate of pharmaceuticals in aquatic ecosystems. *Environmental Chemistry*, **2018**, 15, 463	3.2	3
10	Effect of injection of di- and tricyclic aromatic compounds on post-combustion formation of polychlorinated dibenzo-p-dioxins and dibenzofurans. *Science of the Total Environment*, **2011**, 409, 3386-93	10.2	2
9	Metabolomics reveals changes in metabolite profiles due to growth and metamorphosis during the ontogeny of the northern damselfly. *Journal of Insect Physiology*, **2021**, 136, 104341	2.4	2
8	Oxylipins at intermediate larval stages of damselfly Coenagrion hastulatum as biochemical biomarkers for anthropogenic pollution. *Environmental Science and Pollution Research*, **2021**, 28, 27629-27638	5.1	2
7	Dosing the Coast: Leaking Sewage Infrastructure Delivers Large Annual Doses and Dynamic Mixtures of Pharmaceuticals to Urban Rivers. *Environmental Science & Technology*, **2021**, 55, 11637-11645	10.3	2
6	Frontiers in quantifying wildlife behavioural responses to chemical pollution.. *Biological Reviews*, **2022**,	13.5	2
5	Exposure via biotransformation: Oxazepam reaches predicted pharmacological effect levels in European perch after exposure to temazepam. *Ecotoxicology and Environmental Safety*, **2021**, 217, 112246	7	1
4	Antipredator phenotype in crucian carp altered by a psychoactive drug. *Ecology and Evolution*, **2021**, 11, 9435-9446	2.8	0

3	Environmentally relevant concentration of caffeine-effect on activity and circadian rhythm in wild perch.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
2	Pharmaceuticals are identified in insects in River Fyris A study with both tandem quadrupole and quadrupole-time-of-flight mass spectrometry. *Environmental Advances*, **2022**, 8, 100194	3.5	0
1	Wastewater effluent affects behaviour and metabolomic endpoints in damselfly larvae.. *Scientific Reports*, **2022**, 12, 6830	4.9	