

# Roman Grabic

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2842828/roman-grabic-publications-by-citations.pdf>  
**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

169 papers	6,343 citations	44 h-index	72 g-index
183 ext. papers	7,328 ext. citations	6.8 avg, IF	5.82 L-index

#	Paper	IF	Citations
169	Pyrosequencing of antibiotic-contaminated river sediments reveals high levels of resistance and gene transfer elements. <i>PLoS ONE</i> , <b>2011</b> , 6, e17038	3.7	379
168	Comparing illicit drug use in 19 European cities through sewage analysis. <i>Science of the Total Environment</i> , <b>2012</b> , 432, 432-9	10.2	353
167	Spatial differences and temporal changes in illicit drug use in Europe quantified by wastewater analysis. <i>Addiction</i> , <b>2014</b> , 109, 1338-52	4.6	265
166	Determination of sorption of seventy-five pharmaceuticals in sewage sludge. <i>Water Research</i> , <b>2011</b> , 45, 4470-82	12.5	200
165	Seasonal changes in antibiotics, antidepressants/psychiatric drugs, antihistamines and lipid regulators in a wastewater treatment plant. <i>Chemosphere</i> , <b>2014</b> , 111, 418-26	8.4	183
164	Occurrence and behaviour of 105 active pharmaceutical ingredients in sewage waters of a municipal sewer collection system. <i>Water Research</i> , <b>2014</b> , 58, 221-9	12.5	144
163	Hepatic antioxidant status and hematological parameters in rainbow trout, <i>Oncorhynchus mykiss</i> , after chronic exposure to carbamazepine. <i>Chemico-Biological Interactions</i> , <b>2010</b> , 183, 98-104	5	116
162	Acute toxicity of carbamazepine to juvenile rainbow trout ( <i>Oncorhynchus mykiss</i> ): effects on antioxidant responses, hematological parameters and hepatic EROD. <i>Ecotoxicology and Environmental Safety</i> , <b>2011</b> , 74, 319-27	7	114
161	Multi-residue method for trace level determination of pharmaceuticals in environmental samples using liquid chromatography coupled to triple quadrupole mass spectrometry. <i>Talanta</i> , <b>2012</b> , 100, 183-95	6.2	113
160	The challenge presented by progestins in ecotoxicological research: a critical review. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 2625-38	10.3	109
159	Pharmaceuticals Sorptions relative to properties of thirteen different soils. <i>Science of the Total Environment</i> , <b>2015</b> , 511, 435-43	10.2	106
158	Chronic toxicity of verapamil on juvenile rainbow trout ( <i>Oncorhynchus mykiss</i> ): effects on morphological indices, hematological parameters and antioxidant responses. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 185, 870-80	12.8	101
157	Bioaccumulation of psychoactive pharmaceuticals in fish in an effluent dominated stream. <i>Water Research</i> , <b>2017</b> , 124, 654-662	12.5	98
156	Presence of pharmaceuticals in benthic fauna living in a small stream affected by effluent from a municipal sewage treatment plant. <i>Water Research</i> , <b>2015</b> , 72, 145-53	12.5	95
155	Comparison of the quantitative performance of a Q-Exactive high-resolution mass spectrometer with that of a triple quadrupole tandem mass spectrometer for the analysis of illicit drugs in wastewater. <i>Rapid Communications in Mass Spectrometry</i> , <b>2013</b> , 27, 1751-62	2.2	94
154	Tissue-specific bioconcentration of antidepressants in fish exposed to effluent from a municipal sewage treatment plant. <i>Science of the Total Environment</i> , <b>2014</b> , 488-489, 46-50	10.2	90
153	Spatio-temporal assessment of illicit drug use at large scale: evidence from 7 years of international wastewater monitoring. <i>Addiction</i> , <b>2020</b> , 115, 109-120	4.6	88

152	Pilot study of seasonal occurrence and distribution of antibiotics and drug resistant bacteria in wastewater treatment plants in Slovakia. <i>Science of the Total Environment</i> , <b>2014</b> , 490, 440-4	10.2	85
151	An evaluation of free water surface wetlands as tertiary sewage water treatment of micro-pollutants. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 78, 63-71	7	79
150	Effects of exposure to sublethal propiconazole on the antioxidant defense system and Na <sup>+</sup> -K <sup>+</sup> -ATPase activity in brain of rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Aquatic Toxicology</i> , <b>2010</b> , 98, 297-303	5.1	76
149	Pharmaceuticals and illicit drugs - A new threat to the application of sewage sludge in agriculture. <i>Science of the Total Environment</i> , <b>2018</b> , 634, 606-615	10.2	70
148	An analysis of the dissipation of pharmaceuticals under thirteen different soil conditions. <i>Science of the Total Environment</i> , <b>2016</b> , 544, 369-81	10.2	70
147	National study of illicit drug use in Slovakia based on wastewater analysis. <i>Science of the Total Environment</i> , <b>2014</b> , 494-495, 158-65	10.2	68
146	Removal and seasonal variability of selected analgesics/anti-inflammatory, anti-hypertensive/cardiovascular pharmaceuticals and UV filters in wastewater treatment plant. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 7578-85	5.1	67
145	Early life progesterone exposure causes arrested oocyte development, oviductal agenesis and sterility in adult <i>Xenopus tropicalis</i> frogs. <i>Aquatic Toxicology</i> , <b>2011</b> , 103, 18-24	5.1	67
144	Multi-year inter-laboratory exercises for the analysis of illicit drugs and metabolites in wastewater: Development of a quality control system. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2018</b> , 103, 34-43	14.6	62
143	Environmental occurrence of emerging and legacy brominated flame retardants near suspected sources in Norway. <i>Science of the Total Environment</i> , <b>2013</b> , 443, 307-14	10.2	62
142	A passive sampling method for detecting analgesics, psycholeptics, antidepressants and illicit drugs in aquatic environments in the Czech Republic. <i>Science of the Total Environment</i> , <b>2014</b> , 487, 681-7	10.2	58
141	Use of hematological and plasma biochemical parameters to assess the chronic effects of a fungicide propiconazole on a freshwater teleost. <i>Chemosphere</i> , <b>2011</b> , 83, 572-8	8.4	58
140	Responses of antioxidant status and Na <sup>+</sup> -K <sup>+</sup> -ATPase activity in gill of rainbow trout, <i>Oncorhynchus mykiss</i> , chronically treated with carbamazepine. <i>Chemosphere</i> , <b>2009</b> , 77, 1476-81	8.4	58
139	Presence of UV filters in surface water and the effects of phenylbenzimidazole sulfonic acid on rainbow trout ( <i>Oncorhynchus mykiss</i> ) following a chronic toxicity test. <i>Ecotoxicology and Environmental Safety</i> , <b>2013</b> , 96, 41-7	7	57
138	Simultaneous determination of 32 antibiotics in aquaculture products using LC-MS/MS. <i>Chemical Papers</i> , <b>2014</b> , 68,	1.9	56
137	Transport of pharmaceuticals and their metabolites between water and sediments as a further potential exposure for aquatic organisms. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 342, 401-407	12.8	54
136	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2012</b> , 66, 24-32	3.5	53
135	Estrogen-, androgen- and aryl hydrocarbon receptor mediated activities in passive and composite samples from municipal waste and surface waters. <i>Environment International</i> , <b>2013</b> , 59, 372-83	12.9	53

134	Utilization of Fenton-like reaction for antibiotics and resistant bacteria elimination in different parts of WWTP. <i>Environmental Toxicology and Pharmacology</i> , <b>2015</b> , 40, 492-7	5.8	51
133	Storage effect on the analysis of pharmaceuticals and personal care products in wastewater. <i>Chemosphere</i> , <b>2014</b> , 111, 55-60	8.4	49
132	Oxidation of pharmaceuticals by chlorine dioxide in biologically treated wastewater. <i>Chemical Engineering Journal</i> , <b>2012</b> , 185-186, 236-242	14.7	48
131	Multiple biomarkers responses in juvenile rainbow trout, <i>Oncorhynchus mykiss</i> , after acute exposure to a fungicide propiconazole. <i>Environmental Toxicology</i> , <b>2013</b> , 28, 119-26	4.2	47
130	Fenton-like reaction: a possible way to efficiently remove illicit drugs and pharmaceuticals from wastewater. <i>Environmental Toxicology and Pharmacology</i> , <b>2015</b> , 39, 483-8	5.8	46
129	Biochemical and physiological responses in liver and muscle of rainbow trout after long-term exposure to propiconazole. <i>Ecotoxicology and Environmental Safety</i> , <b>2010</b> , 73, 1391-6	7	46
128	Serum concentrations of indicator PCB congeners in the Czech adult population. <i>Chemosphere</i> , <b>2008</b> , 72, 1124-31	8.4	46
127	Industrial wastewater treatment plant enriches antibiotic resistance genes and alters the structure of microbial communities. <i>Water Research</i> , <b>2019</b> , 162, 437-445	12.5	45
126	Removal of oseltamivir (Tamiflu) and other selected pharmaceuticals from wastewater using a granular bioplastic formulation entrapping propagules of <i>Phanerochaete chrysosporium</i> . <i>Chemosphere</i> , <b>2010</b> , 81, 436-43	8.4	45
125	Environmental levels of the antiviral oseltamivir induce development of resistance mutation H274Y in influenza A/H1N1 virus in mallards. <i>PLoS ONE</i> , <b>2011</b> , 6, e24742	3.7	44
124	Physiological condition status and muscle-based biomarkers in rainbow trout ( <i>Oncorhynchus mykiss</i> ), after long-term exposure to carbamazepine. <i>Journal of Applied Toxicology</i> , <b>2010</b> , 30, 197-203	4.1	44
123	Antibiotics degradation in soil: A case of clindamycin, trimethoprim, sulfamethoxazole and their transformation products. <i>Environmental Pollution</i> , <b>2017</b> , 220, 1251-1263	9.3	43
122	Transformation of atenolol, metoprolol, and carbamazepine in soils: The identification, quantification, and stability of the transformation products and further implications for the environment. <i>Environmental Pollution</i> , <b>2016</b> , 218, 574-585	9.3	41
121	Modulation of antioxidant defence system in brain of rainbow trout ( <i>Oncorhynchus mykiss</i> ) after chronic carbamazepine treatment. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2010</b> , 151, 137-41	3.2	41
120	Intra- and inter-pandemic variations of antiviral, antibiotics and decongestants in wastewater treatment plants and receiving rivers. <i>PLoS ONE</i> , <b>2014</b> , 9, e108621	3.7	40
119	Investigation of PCDD/Fs and dl-PCBs in fish from the southern Baltic Sea during the 2002-2006 period. <i>Chemosphere</i> , <b>2009</b> , 74, 1509-15	8.4	40
118	Determination of progestogens in surface and waste water using SPE extraction and LC-APCI/APPI-HRPS. <i>Science of the Total Environment</i> , <b>2018</b> , 621, 1066-1073	10.2	39
117	Development of a robust extraction procedure for the HPLC-ESI-HRPS determination of multi-residual pharmaceuticals in biota samples. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1022, 53-60	6.6	38

116	Zerovalent iron and iron(VI): Effective means for the removal of psychoactive pharmaceuticals and illicit drugs from wastewaters. <i>Science of the Total Environment</i> , <b>2016</b> , 539, 420-426	10.2	37
115	Screening of benzodiazepines in thirty European rivers. <i>Chemosphere</i> , <b>2017</b> , 176, 324-332	8.4	37
114	The progestin levonorgestrel disrupts gonadotropin expression and sex steroid levels in pubertal roach ( <i>Rutilus rutilus</i> ). <i>Aquatic Toxicology</i> , <b>2014</b> , 154, 154-62	5.1	37
113	Root uptake of atenolol, sulfamethoxazole and carbamazepine, and their transformation in three soils and four plants. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 9876-9891	5.1	36
112	Polybrominated diphenyl ethers (PBDEs) in selected fish species from the southern Baltic Sea. <i>Chemosphere</i> , <b>2010</b> , 78, 695-700	8.4	36
111	Environmentally relevant concentrations of tramadol and citalopram alter behaviour of an aquatic invertebrate. <i>Aquatic Toxicology</i> , <b>2018</b> , 200, 226-232	5.1	36
110	Development of fast and robust multiresidual LC-MS/MS method for determination of pharmaceuticals in soils. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 14068-77	5.1	35
109	Modulation of glutathione-related antioxidant defense system of fish chronically treated by the fungicide propiconazole. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2010</b> , 152, 392-8	3.2	34
108	Bioaccumulation of PCB congeners in marine benthic infauna. <i>Marine Environmental Research</i> , <b>2006</b> , 61, 379-95	3.3	34
107	Effects of oxygen on formation of PCB and PCDD/F on extracted fly ash in the presence of carbon and cupric salt. <i>Chemosphere</i> , <b>2001</b> , 43, 777-82	8.4	34
106	Effects of exposure to sublethal propiconazole on intestine-related biochemical responses in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Chemico-Biological Interactions</i> , <b>2010</b> , 185, 241-6	5	33
105	The effect of oils on PAH, PCDD, PCDF, and PCB emissions from a spark engine fueled with leaded gasoline. <i>Chemosphere</i> , <b>2000</b> , 41, 1905-11	8.4	33
104	Two synthetic progestins and natural progesterone are responsible for most of the progestagenic activities in municipal wastewater treatment plant effluents in the Czech and Slovak republics. <i>Water Research</i> , <b>2018</b> , 137, 64-71	12.5	32
103	Antioxidant responses and plasma biochemical characteristics in the freshwater rainbow trout, <i>Oncorhynchus mykiss</i> , after acute exposure to the fungicide propiconazole. <i>Czech Journal of Animal Science</i> , <b>2011</b> , 56, 61-69	1.1	32
102	Characterisation and fingerprinting of PCBs in flue gas and ash from waste incineration and in technical mixtures. <i>Chemosphere</i> , <b>2011</b> , 85, 509-15	8.4	32
101	Enzymatic alterations and RNA/DNA ratio in intestine of rainbow trout, <i>Oncorhynchus mykiss</i> , induced by chronic exposure to carbamazepine. <i>Ecotoxicology</i> , <b>2010</b> , 19, 872-8	2.9	32
100	Dechlorination of polychlorinated biphenyls, dibenzo-p-dioxins and dibenzofurans on fly ash. <i>Chemosphere</i> , <b>2000</b> , 41, 1881-7	8.4	32
99	Fate of psychoactive compounds in wastewater treatment plant and the possibility of their degradation using aquatic plants. <i>Environmental Toxicology and Pharmacology</i> , <b>2015</b> , 39, 969-73	5.8	29

98	Changes in concentrations of hydrophilic organic contaminants and of endocrine-disrupting potential downstream of small communities located adjacent to headwaters. <i>Environment International</i> , <b>2012</b> , 45, 22-31	12.9	29
97	Passive sampling methods for monitoring endocrine disruptors in the Svatka and Svitava rivers in the Czech Republic. <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 550-5	3.8	29
96	Perfluoroalkyl substances in aquatic environment-comparison of fish and passive sampling approaches. <i>Environmental Research</i> , <b>2016</b> , 144, 92-98	7.9	28
95	Soil influences on uptake and transfer of pharmaceuticals from sewage sludge amended soils to spinach. <i>Journal of Environmental Management</i> , <b>2019</b> , 250, 109407	7.9	27
94	Simultaneous sorption of four ionizable pharmaceuticals in different horizons of three soil types. <i>Environmental Pollution</i> , <b>2016</b> , 218, 563-573	9.3	26
93	Effect-based monitoring of the Danube River using mobile passive sampling. <i>Science of the Total Environment</i> , <b>2018</b> , 636, 1608-1619	10.2	24
92	Sorption of citalopram, irbesartan and fexofenadine in soils: Estimation of sorption coefficients from soil properties. <i>Chemosphere</i> , <b>2018</b> , 195, 615-623	8.4	24
91	The sub-lethal effects and tissue concentration of the human pharmaceutical atenolol in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Science of the Total Environment</i> , <b>2014</b> , 497-498, 209-218	10.2	24
90	Compliance to oseltamivir among two populations in Oxfordshire, United Kingdom affected by influenza A(H1N1)pdm09, November 2009--a waste water epidemiology study. <i>PLoS ONE</i> , <b>2013</b> , 8, e60227	2.7	24
89	Music festivals and drugs: Wastewater analysis. <i>Science of the Total Environment</i> , <b>2019</b> , 659, 326-334	10.2	24
88	Analytical and bioanalytical assessments of organic micropollutants in the Bosna River using a combination of passive sampling, bioassays and multi-residue analysis. <i>Science of the Total Environment</i> , <b>2019</b> , 650, 1599-1612	10.2	24
87	National monitoring of nicotine use in Czech and Slovak Republic based on wastewater analysis. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 14000-6	5.1	23
86	Dominant psychoactive drugs in the Central European region: A wastewater study. <i>Forensic Science International</i> , <b>2016</b> , 267, 42-51	2.6	23
85	Passive sampling of perfluorinated acids and sulfonates using polar organic chemical integrative samplers. <i>Environmental Science and Pollution Research</i> , <b>2013</b> , 20, 1344-51	5.1	23
84	Effect of polycyclic musk compounds on aquatic organisms: A critical literature review supplemented by own data. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 2235-2246	10.2	23
83	3D printed polyvinyl alcohol ferrate(VI) capsules: Effective means for the removal of pharmaceuticals and illicit drugs from wastewater. <i>Chemical Engineering Journal</i> , <b>2018</b> , 349, 269-275	14.7	23
82	Toxic effects, bioconcentration and depuration of verapamil in the early life stages of common carp ( <i>Cyprinus carpio</i> L.). <i>Science of the Total Environment</i> , <b>2013</b> , 461-462, 198-206	10.2	22
81	Optimization of a GC-MS/MS Method for the Analysis of PCDDs and PCDFs in Human and Fish Tissue. <i>Journal of High Resolution Chromatography</i> , <b>2000</b> , 23, 595-599		21



80	Removal of 30 active pharmaceutical ingredients in surface water under long-term artificial UV irradiation. <i>Chemosphere</i> , <b>2017</b> , 176, 175-182	8.4	20
79	Estimation of amount of selected pharmaceuticals sorbed onto digested sludge from wastewater treatment plant Bratislava-Petržalka. <i>Environmental Research</i> , <b>2017</b> , 155, 31-35	7.9	19
78	Psychoactive pharmaceuticals in aquatic systems: A comparative assessment of environmental monitoring approaches for water and fish. <i>Environmental Pollution</i> , <b>2020</b> , 261, 114150	9.3	19
77	Biomarker response, health indicators, and intestinal microbiome composition in wild brown trout ( <i>Salmo trutta m. fario</i> L.) exposed to a sewage treatment plant effluent-dominated stream. <i>Science of the Total Environment</i> , <b>2018</b> , 625, 1494-1509	10.2	19
76	Wastewater analysis: the mean of the monitoring of frequently prescribed pharmaceuticals in Slovakia. <i>Environmental Monitoring and Assessment</i> , <b>2016</b> , 188, 18	3.1	19
75	Contamination of fish in important fishing grounds of the Czech Republic. <i>Ecotoxicology and Environmental Safety</i> , <b>2014</b> , 109, 101-9	7	19
74	Biomarkers of Contaminant Exposure in Chub ( <i>Leuciscus cephalus</i> L.) - Biomonitoring of Major Rivers in the Czech Republic. <i>Sensors</i> , <b>2008</b> , 8, 2589-2603	3.8	19
73	The effects of sewage treatment plant effluents on hepatic and intestinal biomarkers in common carp ( <i>Cyprinus carpio</i> ). <i>Science of the Total Environment</i> , <b>2018</b> , 635, 1160-1169	10.2	18
72	Levels of PCDDs, PCDFs, and PCBs in the blood of the non-occupationally exposed residents living in the vicinity of a chemical plant in the Czech Republic. <i>Chemosphere</i> , <b>2007</b> , 67, S238-46	8.4	18
71	Prevalence of antibiotic-resistant coliform bacteria, <i>Enterococcus</i> spp. and <i>Staphylococcus</i> spp. in wastewater sewerage biofilm. <i>Journal of Global Antimicrobial Resistance</i> , <b>2018</b> , 14, 145-151	3.4	17
70	Bioconcentration, metabolism and half-life time of the human therapeutic drug diltiazem in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Chemosphere</i> , <b>2016</b> , 144, 154-9	8.4	15
69	Uptake, translocation and transformation of three pharmaceuticals in green pea plants. <i>Journal of Hydrology and Hydromechanics</i> , <b>2020</b> , 68, 1-11	2.1	15
68	Fate of perfluoroalkyl substances within a small stream food web affected by sewage effluent. <i>Water Research</i> , <b>2018</b> , 134, 226-233	12.5	14
67	Sub-lethal effects and bioconcentration of the human pharmaceutical clotrimazole in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Chemosphere</i> , <b>2016</b> , 159, 10-22	8.4	14
66	Quantification of adenosine triphosphate, adenosine diphosphate, and creatine phosphate in sterlet spermatozoa during maturation. <i>Journal of Animal Science</i> , <b>2015</b> , 93, 5214-21	0.7	14
65	Matrix effects on the de novo synthesis of polychlorinated dibenzo-p-dioxins, dibenzofurans, biphenyls and benzenes. <i>Chemosphere</i> , <b>2007</b> , 68, 51-61	8.4	14
64	Bisphenols emerging in Norwegian and Czech aquatic environments show transthyretin binding potency and other less-studied endocrine-disrupting activities. <i>Science of the Total Environment</i> , <b>2021</b> , 751, 141801	10.2	14
63	Occurrence of pharmaceuticals, illicit drugs, and resistant types of bacteria in hospital effluent and their effective degradation by boron-doped diamond electrodes. <i>Monatshefte Für Chemie</i> , <b>2016</b> , 147, 97-103	1.4	13

62	Differential accumulation of low-chlorinated (Delor 103) and high-chlorinated (Delor 106) biphenyls in human placental tissue and opposite effects on conversion of DHEA to E2. <i>Chemosphere</i> , <b>2006</b> , 62, 573-80	8.4	13
61	Environmentally relevant concentrations of methamphetamine and sertraline modify the behavior and life history traits of an aquatic invertebrate. <i>Aquatic Toxicology</i> , <b>2019</b> , 213, 105222	5.1	12
60	Endemic shrimp <i>Macrobrachium pantanalense</i> as a test species to assess potential contamination by pesticides in Pantanal (Brazil). <i>Chemosphere</i> , <b>2017</b> , 168, 1082-1092	8.4	12
59	Evaluation of different smoking habits during music festivals through wastewater analysis. <i>Environmental Toxicology and Pharmacology</i> , <b>2015</b> , 40, 1015-20	5.8	12
58	Effects of sulfur dioxide, hydrogen peroxide and sulfuric acid on the de novo synthesis of PCDD/F and PCB under model laboratory conditions. <i>Chemosphere</i> , <b>2007</b> , 66, 1947-54	8.4	12
57	Effect of reaction time on PCDD and PCDF formation by de novo synthetic reactions under oxygen deficient and rich atmosphere. <i>Chemosphere</i> , <b>2002</b> , 49, 691-6	8.4	12
56	Competitive and synergic sorption of carbamazepine, citalopram, clindamycin, fexofenadine, irbesartan and sulfamethoxazole in seven soils. <i>Journal of Contaminant Hydrology</i> , <b>2020</b> , 234, 103680	3.9	12
55	Microbial responses to selected pharmaceuticals in agricultural soils: Microcosm study on the roles of soil, treatment and time. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 149, 107924	7.5	12
54	Young-of-the-year fish as a prospective bioindicator for aquatic environmental contamination monitoring. <i>Water Research</i> , <b>2016</b> , 103, 334-342	12.5	12
53	Oxazepam Alters the Behavior of Crayfish at Diluted Concentrations, Venlafaxine Does Not. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 196	3	11
52	Assessment of contamination of the Svitava and Svatka rivers in the Czech Republic using selected biochemical markers. <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 541-9	3.8	11
51	Methamphetamine pollution elicits addiction in wild fish. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	11
50	Behaviour and cardiac response to stress in signal crayfish exposed to environmental concentrations of tramadol. <i>Aquatic Toxicology</i> , <b>2019</b> , 213, 105217	5.1	10
49	Biochemical responses in gills of rainbow trout exposed to propiconazole. <i>Open Life Sciences</i> , <b>2011</b> , 6, 84-90	1.2	10
48	Water reuse and aquaculture: Pharmaceutical bioaccumulation by fish during tertiary treatment in a wastewater stabilization pond. <i>Environmental Pollution</i> , <b>2020</b> , 267, 115593	9.3	10
47	Effects of Multi-Component Mixtures from Sewage Treatment Plant Effluent on Common Carp ( <i>Cyprinus carpio</i> ) under Fully Realistic Condition. <i>Environmental Management</i> , <b>2019</b> , 63, 466-484	3.1	10
46	Do progestins contribute to (anti-)androgenic activities in aquatic environments?. <i>Environmental Pollution</i> , <b>2018</b> , 242, 417-425	9.3	9
45	Chronic simultaneous exposure of common carp ( <i>Cyprinus carpio</i> ) from embryonic to juvenile stage to drospirenone and gestodene at low ng/L level caused intersex. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 188, 109912	7	9



44	Boron doped diamond electrode The elimination of psychoactive drugs and resistant bacteria from wastewater. <i>Vacuum</i> , <b>2020</b> , 171, 108957	3.7	9
43	Neuroactive drugs and other pharmaceuticals found in blood plasma of wild European fish. <i>Environment International</i> , <b>2021</b> , 146, 106188	12.9	9
42	Does dexamethasone affect hepatic CYP450 system of fish? Semi-static in-vivo experiment on juvenile rainbow trout. <i>Chemosphere</i> , <b>2015</b> , 139, 155-62	8.4	8
41	Complex effects of pollution on fish in major rivers in the Czech Republic. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 164, 92-99	7	8
40	Frequency and use of pharmaceuticals in selected Slovakian town via wastewater analysis. <i>Monatshefte für Chemie</i> , <b>2017</b> , 148, 441-448	1.4	8
39	Concentration of organochlorine pollutants in surface waters of the central European biosphere reserve Krivoklatsko. <i>Environmental Science and Pollution Research</i> , <b>2007</b> , 14, 94-101	5.1	8
38	Monitoring of micropollutants and resistant bacteria in wastewater and their effective removal by boron doped diamond electrode. <i>Monatshefte für Chemie</i> , <b>2017</b> , 148, 539-548	1.4	7
37	Hospital wastewaters treatment: Fenton reaction vs. BDDE vs. ferrate(VI). <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 31812-31821	5.1	7
36	Assessment of polycyclic aromatic hydrocarbon contamination of the Břidlice River (Czech Republic) using passive water samplers and fish biliary metabolites. <i>Acta Veterinaria Brno</i> , <b>2011</b> , 80, 353-357	0.8	7
35	How microbial community composition, sorption and simultaneous application of six pharmaceuticals affect their dissipation in soils. <i>Science of the Total Environment</i> , <b>2020</b> , 746, 141134	10.2	7
34	In situ calibration of polar organic chemical integrative sampler (POCIS) for monitoring of pharmaceuticals in surface waters. <i>Environmental Pollution</i> , <b>2021</b> , 269, 116121	9.3	7
33	On the Use of Mechanistic Soil-Plant Uptake Models: A Comprehensive Experimental and Numerical Analysis on the Translocation of Carbamazepine in Green Pea Plants. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 2991-3000	10.3	7
32	Determination of illicit drugs and their metabolites contamination on banknotes. <i>Monatshefte für Chemie</i> , <b>2016</b> , 147, 39-43	1.4	6
31	Development and application of LC/HRPS for quantification of adenine nucleotides, creatine phosphate, and creatine in sturgeon spermatozoa. <i>Czech Journal of Animal Science</i> , <b>2017</b> , 62, 67-74	1.1	6
30	Biochar An efficient sorption material for the removal of pharmaceutically active compounds, DNA and RNA fragments from wastewater. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105746	6.8	6
29	Water reuse for aquaculture: Comparative removal efficacy and aquatic hazard reduction of pharmaceuticals by a pond treatment system during a one year study. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 421, 126712	12.8	6
28	Elimination of interferences caused by simultaneous use of deuterated and carbon-13 standards in GC-MS analysis of polycyclic aromatic hydrocarbons (PAHs) in extracts from passive sampling devices. <i>Analytical Methods</i> , <b>2013</b> , 5, 2925	3.2	5
27	Traces of tramadol in water impact behaviour in a native European fish. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 212, 111999	7	5

26	Host-parasite interaction as a toxicity test endpoint using asymmetrical exposures. <i>Aquatic Toxicology</i> , <b>2019</b> , 211, 173-180	5.1	4
25	Non-antimicrobial pharmaceuticals can affect the development of antibiotic resistance in hospital wastewater. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 13501-13511	5.1	4
24	Suitability and setup of next-generation sequencing-based method for taxonomic characterization of aquatic microbial biofilm. <i>Folia Microbiologica</i> , <b>2019</b> , 64, 9-17	2.8	4
23	Multivariate relationships between molecular descriptors and isomer distribution patterns of PCBs formed during household waste incineration. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 3082-90	5.1	4
22	Comparison of illicit drug use in three selected towns in Slovakia by wastewater analysis. <i>Urban Water Journal</i> , <b>2015</b> , 12, 519-524	2.3	4
21	Environmentally relevant levels of four psychoactive compounds vary in their effects on freshwater fish condition: a brain concentration evidence approach. <i>PeerJ</i> , <b>2020</b> , 8, e9356	3.1	4
20	Ultrafast laser diode thermal desorption method for analysis of representative pharmaceuticals in soil leachate samples. <i>Talanta</i> , <b>2020</b> , 208, 120382	6.2	4
19	Effervescent ferrate(VI)-based tablets as an effective means for removal SARS-CoV-2 RNA, pharmaceuticals and resistant bacteria from wastewater.. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 43, 102223	6.7	4
18	Determination of citalopram in fish brain tissue: benefits of coupling laser diode thermal desorption with low- and high-resolution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 4353-4361	4.4	3
17	Influence of boron doped diamond electrodes properties on the elimination of selected pharmaceuticals from wastewater. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 862, 114007	4.1	3
16	Investigation of diltiazem metabolism in fish using a hybrid quadrupole/orbital trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30, 1153-62	2.2	3
15	Fate of three anti-influenza drugs during ozonation of wastewater effluents - degradation and formation of transformation products. <i>Chemosphere</i> , <b>2016</b> , 150, 723-730	8.4	3
14	The progestin levonorgestrel affects hypothalamus-pituitary-gonad axis in pubertal roach ( <i>Rutilus rutilus</i> ). <i>Toxicology Letters</i> , <b>2014</b> , 229, S114-S115	4.4	3
13	Efficiency assessment of wastewater treatment plant based on SPMD sampling. <i>Open Chemistry</i> , <b>2004</b> , 2, 91-112	1.6	3
12	Prescribed aggression of fishes: Pharmaceuticals modify aggression in environmentally relevant concentrations. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 227, 112944	7	3
11	A novel multiscale biophysical model to predict the fate of ionizable compounds in the soil-plant continuum. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127008	12.8	3
10	Environmental concentration of methamphetamine induces pathological changes in brown trout ( <i>Salmo trutta fario</i> ). <i>Chemosphere</i> , <b>2020</b> , 254, 126882	8.4	2
9	Comparison of passive sampling and biota for monitoring of tonalide in aquatic environment. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 22251-22257	5.1	2

8	Background Level of Pops in Ground Water Assessed on Chemical and Toxicity Analysis of Exposed Semipermeable Membrane Devices. <i>Air, Soil and Water Research</i> , <b>2009</b> , 2, ASWR.S2128	3.3	2
7	Inter-laboratory mass spectrometry dataset based on passive sampling of drinking water for non-target analysis. <i>Scientific Data</i> , <b>2021</b> , 8, 223	8.2	2
6	Activation of a Cryptic Manumycin-Type Biosynthetic Gene Cluster of DSM44229 by Series of Genetic Manipulations. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	1
5	De facto reuse at the watershed scale: Seasonal changes, population contributions, instream flows and water quality hazards of human pharmaceuticals. <i>Environmental Pollution</i> , <b>2021</b> , 268, 115888	9.3	1
4	Instrumental and bioanalytical assessment of pharmaceuticals and hormone-like compounds in a major drinking water source-wastewater receiving Zayandeh Rood river, Iran. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	1
3	Metabolome adaptation and oxidative stress response of common carp ( <i>Cyprinus carpio</i> ) to altered water pollution levels.. <i>Environmental Pollution</i> , <b>2022</b> , 303, 119117	9.3	1
2	Desorption of pharmaceuticals and illicit drugs from different stabilized sludge types across pH. <i>Water Research</i> , <b>2022</b> , 118651	12.5	0
1	Sorption of 71 Pharmaceuticals to Powder Activated Carbon for Improved Wastewater Treatment. <i>Clean Technologies</i> , <b>2022</b> , 4, 296-308	3.4	