

# Fate and toxicity of emerging pollutants, their metabolites in the aquatic environment

TrAC - Trends in Analytical Chemistry

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Emerging Pollutants. <i>Water Environment Research</i> , 2009, 81, 2211-2254.	1.3	10
2	Pharmaceuticals, Personal Care Products and Endocrine Disrupting Agents in the Environment – A Review. <i>Clean - Soil, Air, Water</i> , 2009, 37, 277-303.	0.7	386
3	The relevance of the community approach linking chemical and biological analyses in pollution assessment. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 619-626.	5.8	40
4	Prospects for combining chemical and biological methods for integrated environmental assessment. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 745-757.	5.8	100
5	Water Analysis: Emerging Contaminants and Current Issues. <i>Analytical Chemistry</i> , 2009, 81, 4645-4677.	3.2	378
6	Recent Advances in Environmental Analysis. <i>Analytical Chemistry</i> , 2009, 81, 4601-4622.	3.2	79
7	Trace Organics in Arizona Surface and Wastewaters. <i>ACS Symposium Series</i> , 2010, , 81-117.	0.5	2
8	Study of the performance of three LC-MS/MS platforms for analysis of perfluorinated compounds. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1145-1159.	1.9	23
9	Organic Pollutants in Coastal Waters, Sediments, and Biota: A Relevant Driver for Ecosystems During the Anthropocene?. <i>Estuaries and Coasts</i> , 2010, 33, 1-14.	1.0	94
10	Winter accumulation of acidic pharmaceuticals in a Swedish river. <i>Environmental Science and Pollution Research</i> , 2010, 17, 908-916.	2.7	79
11	Heterogeneous photo-Fenton treatment for the reduction of pharmaceutical contamination in Madrid rivers and ecotoxicological evaluation by a miniaturized fern spores bioassay. <i>Chemosphere</i> , 2010, 80, 381-388.	4.2	64
12	Ecotoxicological aspects related to the presence of pharmaceuticals in the aquatic environment. <i>Journal of Hazardous Materials</i> , 2010, 175, 45-95.	6.5	1,166
13	Benzotriazole removal from water by ZnO binary metal oxide adsorbent: Behavior, kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2010, 184, 147-155.	6.5	36
14	Microwave-assisted extraction: Application to the determination of emerging pollutants in solid samples. <i>Journal of Chromatography A</i> , 2010, 1217, 2390-2414.	1.8	77
15	Multi-residue analysis of pharmaceutical compounds in wastewaters by dual solid-phase microextraction coupled to liquid chromatography electrospray ionization ion trap mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 3392-3399.	1.8	53
16	Dissipation of sulfamethoxazole, trimethoprim and tylosin in a soil under aerobic and anoxic conditions. <i>Environmental Chemistry</i> , 2010, 7, 370.	0.7	67
17	Uptake and Biological Effects of Environmentally Relevant Concentrations of the Nonsteroidal Anti-inflammatory Pharmaceutical Diclofenac in Rainbow Trout ( <i>Oncorhynchus mykiss</i> ). <i>Environmental Science &amp; Technology</i> , 2010, 44, 2176-2182.	4.6	267
18	Direct Chiral Resolution of Metalaxyl and Metabolite Metalaxyl Acid in Aged Mobile Phases: The Role of Trace Water. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5004-5010.	2.4	13

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19	Environmental Mass Spectrometry: Emerging Contaminants and Current Issues. <i>Analytical Chemistry</i> , 2010, 82, 4742-4774.	3.2	236
20	Kinetic of benzotriazole oxidation by ozone and hydroxyl radical. <i>Water Research</i> , 2010, 44, 2058-2066.	5.3	114
21	The effect of structure and a secondary carbon source on the microbial degradation of chlorophenoxy acids. <i>Chemosphere</i> , 2010, 79, 1084-1088.	4.2	26
22	Evaluation of the OECD 314B Activated Sludge Die-Away Test for Assessing the Biodegradation of Pharmaceuticals. <i>Environmental Science &amp; Technology</i> , 2010, 44, 375-381.	4.6	9
23	Nano-Scale Pollutants: Fate in Irish Surface and Drinking Water Regulatory Systems. <i>Human and Ecological Risk Assessment (HERA)</i> , 2010, 16, 847-872.	1.7	62
24	Reproducible <sup>1</sup> H NMR-Based Metabolomic Responses in Fish Exposed to Different Sewage Effluents in Two Separate Studies. <i>Environmental Science &amp; Technology</i> , 2011, 45, 1703-1710.	4.6	52
25	From Dishwasher to Tap? Xenobiotic Substances Benzotriazole and Tolyltriazole in the Environment. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3858-3864.	4.6	129
26	Effects of minocycline and its degradation products on the growth of <i>Microcystis aeruginosa</i> . <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 219-224.	2.9	39
27	Biodegradation of three selected benzotriazoles under aerobic and anaerobic conditions. <i>Water Research</i> , 2011, 45, 5005-5014.	5.3	141
28	A Risk Assessment Framework for Assessing Metallic Nanomaterials of Environmental Concern: Aquatic Exposure and Behavior. <i>Risk Analysis</i> , 2011, 31, 706-726.	1.5	57
29	Degradation and removal methods of antibiotics from aqueous matrices – A review. <i>Journal of Environmental Management</i> , 2011, 92, 2304-2347.	3.8	1,137
30	Attenuation of contaminants of emerging concern during surface-spreading aquifer recharge. <i>Science of the Total Environment</i> , 2011, 409, 1087-1094.	3.9	97
31	Effectiveness of AOP's on abatement of emerging pollutants and their oxidation intermediates: Nicotine removal with Fenton's Reagent. <i>Desalination</i> , 2011, 280, 108-113.	4.0	39
32	Toxicity profile of labile preservative bronopol in water: The role of more persistent and toxic transformation products. <i>Environmental Pollution</i> , 2011, 159, 609-615.	3.7	45
33	A new approach to data evaluation in the non-target screening of organic trace substances in water analysis. <i>Chemosphere</i> , 2011, 85, 1211-1219.	4.2	72
34	Multiresidue method for the analysis of emerging contaminants in wastewater by ultra performance liquid chromatography–time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 6712-6719.	1.8	61
35	Cleanup strategies and advantages in the determination of several therapeutic classes of pharmaceuticals in wastewater samples by SPE–LC–MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 807-822.	1.9	85
36	Differential enantioselectivity of quizalofop ethyl and its acidic metabolite: Direct enantiomeric separation and assessment of multiple toxicological endpoints. <i>Journal of Hazardous Materials</i> , 2011, 186, 876-882.	6.5	27

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37	Application of dithiocarbamate-modified starch for dyes removal from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2011, 188, 254-260.	6.5	45
38	Direct Detection of Pharmaceuticals and Personal Care Products from Aqueous Samples with Thermally-Assisted Desorption Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1285-93.	1.2	27
39	Simultaneous determination of three naturally occurring estrogens in environmental waters by high-performance liquid chromatography. <i>Journal of Separation Science</i> , 2011, 34, 2371-2375.	1.3	10
40	Solar photocatalysis as a tertiary treatment to remove emerging pollutants from wastewater treatment plant effluents. <i>Catalysis Today</i> , 2011, 161, 235-240.	2.2	166
41	A review of separation methods for the determination of estrogens and plastics-derived estrogen mimics from aqueous systems. <i>Analytica Chimica Acta</i> , 2011, 696, 6-26.	2.6	123
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43	Soil bioassays as tools for sludge compost quality assessment. <i>Waste Management</i> , 2011, 31, 512-522.	3.7	21
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45	Assessing transformation processes of organic contaminants by compound-specific stable isotope analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 618-627.	5.8	121
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47	Understanding the interaction of multi-walled carbon nanotubes with mutagenic organic pollutants using computational modeling and biological experiments. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 437-446.	5.8	23
48	Application of new approaches to liquid-phase microextraction for the determination of emerging pollutants. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 731-748.	5.8	110
49	Wastewater Reuse in the Llobregat: The Experience at the Prat de Llobregat Treatment Plant. <i>Handbook of Environmental Chemistry</i> , 2012, , 327-346.	0.2	2
50	New Developments in Liquid Chromatography Mass Spectrometry for the Determination of Micropollutants. <i>Chromatography Research International</i> , 2012, 2012, 1-18.	0.4	12
51	Ready biodegradability of trifluoromethylated phenothiazine drugs, structural elucidation of their aquatic transformation products, and identification of environmental risks studied by LC-MS n and QSAR. <i>Environmental Science and Pollution Research</i> , 2012, 19, 3162-3177.	2.7	16
52	Comprehensive study of ibuprofen and its metabolites in activated sludge batch experiments and aquatic environment. <i>Science of the Total Environment</i> , 2012, 438, 404-413.	3.9	161
53	Removal of sulfamethoxazole from solution by raw and chemically treated walnut shells. <i>Environmental Science and Pollution Research</i> , 2012, 19, 3096-3106.	2.7	39
54	Photochemical fate of a mixture of emerging pollutants in the presence of humic substances. <i>Water Research</i> , 2012, 46, 4732-4740.	5.3	118

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56	Studies on photodegradation of levomepromazine and olanzapine under simulated environmental conditions. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1575.	1.6	11
57	Transformation of 1 <i>H</i> -Benzotriazole by Ozone in Aqueous Solution. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7102-7111.	4.6	66
58	Pharmaceuticals and personal care products (PPCPs) in treated wastewater discharges into Charleston Harbor, South Carolina. <i>Science of the Total Environment</i> , 2012, 437, 1-9.	3.9	132
59	Identification of ozonation by-products of 4- and 5-methyl-1 <i>H</i> -benzotriazole during the treatment of surface water to drinking water. <i>Water Research</i> , 2012, 46, 679-690.	5.3	40
60	The degradation products of UV filters in aqueous and chlorinated aqueous solutions. <i>Water Research</i> , 2012, 46, 3167-3176.	5.3	133
61	Evaluation of low-cost disposable polymeric materials for sorptive extraction of organic pollutants in water samples. <i>Analytica Chimica Acta</i> , 2012, 716, 119-127.	2.6	28
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63	Gene-class analysis of expression patterns induced by psychoactive pharmaceutical exposure in fathead minnow ( <i>Pimephales promelas</i> ) indicates induction of neuronal systems. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012, 155, 109-120.	1.3	23
64	Immobilization of active and stable goethite coated-films by a dip-coating process and its application for photo-Fenton systems. <i>Chemical Engineering Journal</i> , 2012, 203, 212-222.	6.6	29
65	Removal of Emerging Contaminants from Water and Wastewater by Adsorption Process. <i>Springer Briefs in Molecular Science</i> , 2012, , 15-37.	0.1	144
66	Harnessing the power of enzymes for environmental stewardship. <i>Biotechnology Advances</i> , 2012, 30, 933-953.	6.0	158
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68	Inorganic Nanoparticles and the Environment: Balancing Benefits and Risks. <i>Comprehensive Analytical Chemistry</i> , 2012, 59, 265-290.	0.7	5
69	Nanomaterials in Food, Which Way Forward?. <i>Comprehensive Analytical Chemistry</i> , 2012, , 305-353.	0.7	8
70	Environmental Fate of Human Pharmaceuticals. <i>Emerging Topics in Ecotoxicology</i> , 2012, , 63-83.	1.5	5
71	Extraction Procedures for Organic Pollutants Determination in Water. <i>Environmental Chemistry for A Sustainable World</i> , 2012, , 171-235.	0.3	3
72	Speciation Analysis of Aqueous Nanoparticulate Diclofenac Complexes by Solid-Phase Microextraction. <i>Langmuir</i> , 2012, 28, 14672-14680.	1.6	29

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74	Emerging pollutants in sewage, surface and drinking water in Galicia (NW Spain). <i>Chemosphere</i> , 2012, 86, 1040-1049.	4.2	332
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76	Formation of diclofenac and sulfamethoxazole reversible transformation products in aquifer material under denitrifying conditions: Batch experiments. <i>Science of the Total Environment</i> , 2012, 426, 256-263.	3.9	72
77	An integrated approach to evaluate emerging contaminants in drinking water. <i>Separation and Purification Technology</i> , 2012, 84, 3-8.	3.9	86
78	Critical evaluation of screening techniques for emerging environmental contaminants based on accurate mass measurements with time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2012, 47, 303-312.	0.7	51
79	The relevance of bisphenol A adsorption during Fenton's oxidation. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 1141-1148.	1.8	6
80	Benzotriazoles and benzothiazoles in human urine from several countries: A perspective on occurrence, biotransformation, and human exposure. <i>Environment International</i> , 2013, 59, 274-281.	4.8	143
81	Treatment of pharmaceutical effluent by electrocoagulation coupled to nanofiltration. <i>Desalination and Water Treatment</i> , 2013, 51, 4987-4997.	1.0	15
82	Evaluating legacy contaminants and emerging chemicals in marine environments using adverse outcome pathways and biological effects-directed analysis. <i>Marine Pollution Bulletin</i> , 2013, 74, 517-525.	2.3	66
83	Enantioselective separation and transformation of metalaxyl and its major metabolite metalaxyl acid in tomato and cucumber. <i>Food Chemistry</i> , 2013, 141, 10-17.	4.2	38
84	Photodegradation of three benzotriazoles induced by four Fe(III)-carboxylate complexes in water under ultraviolet irradiation. <i>Environmental Chemistry</i> , 2013, 10, 135.	0.7	5
85	Extraction and determination methodologies for benzotriazole UV stabilizers in personal-care products in environmental and biological samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 51, 23-32.	5.8	44
86	Coupling membrane separation and photocatalytic oxidation processes for the degradation of pharmaceutical pollutants. <i>Water Research</i> , 2013, 47, 5647-5658.	5.3	103
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89	Zeolitic Imidazolate Framework-8 for Fast Adsorption and Removal of Benzotriazoles from Aqueous Solution. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 9837-9842.	4.0	243
90	Adsorption of two phenoxyacid compounds on a clay surface: a theoretical study. <i>Adsorption</i> , 2013, 19, 937-944.	1.4	16

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92	Screening of cosmetic ingredients from authentic formulations and environmental samples with desorption electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2013, 5, 394-401.	1.3	22
93	Determination of testosterone and its photodegradation products in surface waters using solid-phase extraction followed by LC-MS/MS analysis. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1021-1030.	2.7	6
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96	Biodegradation of three selected benzotriazoles in aquifer materials under aerobic and anaerobic conditions. <i>Journal of Contaminant Hydrology</i> , 2013, 151, 131-139.	1.6	66
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100	Chronic Effects of Carbamazepine on Life-History Strategies of <i>Ceriodaphnia dubia</i> in Three Successive Generations. <i>Archives of Environmental Contamination and Toxicology</i> , 2013, 64, 427-438.	2.1	31
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102	Kinetics and mechanism of carbamazepine degradation by a modified Fenton-like reaction with ferric-nitritotriacetate complexes. <i>Journal of Hazardous Materials</i> , 2013, 252-253, 155-165.	6.5	98
103	Pollution Pathways of Pharmaceutical Residues in the Aquatic Environment on the Island of Mallorca, Spain. <i>Archives of Environmental Contamination and Toxicology</i> , 2013, 65, 56-66.	2.1	59
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106	Qualitative nontarget analysis of landfill leachate using gas chromatography time-of-flight mass spectrometry. <i>Talanta</i> , 2013, 103, 384-391.	2.9	15
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108	Micropollutant Dynamics in Vidy Bay—A Coupled Hydrodynamic-Photolysis Model to Assess the Spatial Extent of Ecotoxicological Risk. <i>Environmental Science &amp; Technology</i> , 2013, 47, 9207-9216.	4.6	26
109	Aptamer-Based Analysis: A Promising Alternative for Food Safety Control. <i>Sensors</i> , 2013, 13, 16292-16311.	2.1	113

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110	Compound-specific stable carbon isotope analysis of galaxolide enantiomers in sediment using gas chromatography/isotope ratio monitoring mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1690-1696.	0.7	8
111	Microwave-assisted extraction combined with on-line solid phase extraction followed by ultra-high-performance liquid chromatography with tandem mass spectrometric determination of benzotriazole <sc>UV</sc> stabilizers in marine sediments and sewage sludges. <i>Journal of Separation Science</i> , 2013, 36, 781-788.	1.3	32
112	The Effect of PhACs on Biological Communities in Rivers. <i>Comprehensive Analytical Chemistry</i> , 2013, , 649-670.	0.7	2
113	Methods for Elucidation of Transformation Pathways. <i>Comprehensive Analytical Chemistry</i> , 2013, 62, 593-610.	0.7	2
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118	Multivariate Analyses for Monitoring EDCs and PPCPs in a Lake Water. <i>Water Environment Research</i> , 2014, 86, 2233-2241.	1.3	14
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121	Hydroxyl Radical as an Unlikely Key Intermediate in the Photodegradation of Emerging Pollutants. <i>Photochemistry and Photobiology</i> , 2014, 90, 1467-1469.	1.3	8
122	Endocrine and Fitness Correlates of Long-Chain Perfluorinated Carboxylates Exposure in Arctic Breeding Black-Legged Kittiwakes. <i>Environmental Science &amp; Technology</i> , 2014, 48, 13504-13510.	4.6	64
123	Co-metabolic transformation of the neonicotinoid insecticide imidacloprid by the new soil isolate <i>Pseudoxanthomonas indica</i> CGMCC 6648. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2014, 49, 661-670.	0.7	35
124	Superficial Modification of Semiconductors with Gold Nanoparticles for Photocatalytic Applications. <i>RSC Catalysis Series</i> , 2014, , 155-228.	0.1	3
125	Treatment of Organic Micropollutants in Water and Wastewater by UV-Based Processes: A Literature Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 1443-1476.	6.6	129
126	Investigation of cannabis biomarkers and transformation products in waters by liquid chromatography coupled to time of flight and triple quadrupole mass spectrometry. <i>Chemosphere</i> , 2014, 99, 64-71.	4.2	30
127	Advantages of online SPE coupled with UPLC/MS/MS for determining the fate of pesticides and pharmaceutical compounds. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1181-1191.	1.9	29
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130	A New Protocol for the Analysis of Pharmaceuticals, Pesticides, and Hormones in Sediments and Suspended Particulate Matter From Rivers and Municipal Wastewaters. Archives of Environmental Contamination and Toxicology, 2014, 66, 582-593.	2.1	42
131	Xenobiotic benzotriazoles' biodegradation under meso- and oligotrophic conditions as well as denitrifying, sulfate-reducing, and anaerobic conditions. Environmental Science and Pollution Research, 2014, 21, 2795-2804.	2.7	31
132	Assessing the Anthropocene with geochemical methods. Geological Society Special Publication, 2014, 395, 221-238.	0.8	39
133	Fate of thiabendazole through the treatment of a simulated agro-food industrial effluent by combined MBR/Fenton processes at 1/4g/L scale. Water Research, 2014, 51, 55-63.	5.3	50
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136	Developmental toxicity and risk assessment of nonylphenol to the South American toad, <i>Rhinella arenarum</i> . Environmental Toxicology and Pharmacology, 2014, 38, 634-642.	2.0	14
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138	Phytocapping: An Alternative Technology for the Sustainable Management of Landfill Sites. Critical Reviews in Environmental Science and Technology, 2014, 44, 561-637.	6.6	50
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142	Transformation of acesulfame in water under natural sunlight: Joint effect of photolysis and biodegradation. Water Research, 2014, 64, 113-122.	5.3	69
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144	A Quantitative Toxicogenomics Assay Reveals the Evolution and Nature of Toxicity during the Transformation of Environmental Pollutants. Environmental Science & Technology, 2014, 48, 8855-8863.	4.6	53
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149	Analytical and Toxicity Characterization of Halo-hydroxyl-benzoquinones as Stable Halobenzoquinone Disinfection Byproducts in Treated Water. <i>Analytical Chemistry</i> , 2014, 86, 4982-4988.	3.2	125
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