Barbara Kasprzyk-Hordern

List of Publications by Year
in descending order

112 papers	15,709 citations	25034 57 h-index	23533 111 g-index
124 all docs	124 docs citations	124 times ranked	12613 citing authors

#	Article	IF	Citations
1	Stereoselective metabolism of chloramphenicol by bacteria isolated from wastewater, and the importance of stereochemistry in environmental risk assessments for antibiotics. Water Research, 2022, 217, 118415.	11.3	3
2	Challenges in realising the potential of wastewater-based epidemiology to quantitatively monitor and predict the spread of disease. Journal of Water and Health, 2022, 20, 1038-1050.	2.6	12
3	A multi-residue chiral liquid chromatography coupled with tandem mass spectrometry method for analysis of antifungal agents and their metabolites in aqueous environmental matrices. Analytical Methods, 2021, 13, 2466-2477.	2.7	3
4	A high prevalence of bla OXA-48 in Klebsiella (Raoultella) ornithinolytica and related species in hospital wastewater in South West England. Microbial Genomics, 2021, 7, .	2.0	10
5	Occurrence of pharmaceutical residues, personal care products, lifestyle chemicals, illicit drugs and metabolites in wastewater and receiving surface waters of Krakow agglomeration in South Poland. Science of the Total Environment, 2021, 768, 144360.	8.0	64
6	Making Waves: Collaboration in the time of SARS-CoV-2 - rapid development of an international co-operation and wastewater surveillance database to support public health decision-making. Water Research, 2021, 199, 117167.	11.3	48
7	Diagnosing Down-the-Drain Disposal of Unused Pharmaceuticals at a River Catchment Level: Unrecognized Sources of Environmental Contamination That Require Nontechnological Solutions. Environmental Science & Technology, 2021, 55, 11657-11666.	10.0	17
8	Changes in drug use in European cities during early COVID-19 lockdowns â€“ A snapshot from wastewater analysis. Environment International, 2021, 153, 106540.	10.0	47
9	Multiresidue antibiotic-metabolite quantification method using ultra-performance liquid chromatography coupled with tandem mass spectrometry for environmental and public exposure estimation. Analytical and Bioanalytical Chemistry, 2021, 413, 5901-5920.	3.7	16
10	Spatiotemporal profiling of antibiotics and resistance genes in a river catchment: Human population as the main driver of antibiotic and antibiotic resistance gene presence in the environment. Water Research, 2021, 203, 117533.	11.3	49
11	Spatioâ€temporal assessment of illicit drug use at large scale: evidence from 7 years of international wastewater monitoring. Addiction, 2020, 115, 109-120.	3.3	154
12	Simultaneous ozonation of 90 organic micropollutants including illicit drugs and their metabolites in different water matrices. Environmental Science: Water Research and Technology, 2020, 6, 2465-2478.	2.4	19
13	Wastewater-Based Epidemiology: Global Collaborative to Maximize Contributions in the Fight Against COVID-19. Environmental Science & Technology, 2020, 54, 7754-7757.	10.0	337
14	Wastewater-based epidemiology combined with local prescription analysis as a tool for temporalmonitoring of drugs trends - A UK perspective. Science of the Total Environment, 2020, 735, 139433.	8.0	46
15	Future perspectives of wastewater-based epidemiology: Monitoring infectious disease spread and resistance to the community level. Environment International, 2020, 139, 105689.	10.0	408
16	Multi-residue determination of micropollutants in Nigerian fish from Lagos lagoon using ultrasound assisted extraction, solid phase extraction and ultra-high-performance liquid chromatography tandem mass spectrometry. Analytical Methods, 2020, 12, 2114-2122.	2.7	4
17	A new paradigm in public health assessment: Water fingerprinting for protein markers of public health using mass spectrometry. TrAC - Trends in Analytical Chemistry, 2019, 119, 115621.	11.4	23
18	Estimation of community-wide exposure to bisphenol A via water fingerprinting. Environment International, 2019, 125, 1-8.	10.0	54

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19	COMBI, continuous ozonation merged with biofiltration to study oxidative and microbial transformation of trace organic contaminants. Environmental Science: Water Research and Technology, 2019, 5, 552-563.	2.4	9
20	Editorial Perspectives: could water fingerprinting help with community-wide health assessment?. Environmental Science: Water Research and Technology, 2019, 5, 1033-1035.	2.4	6
21	Stereoisomeric profiling of chiral pharmaceutically active compounds in wastewaters and the receiving environment â€“ A catchment-scale and a laboratory study. Environment International, 2019, 127, 558-572.	10.0	27
22	Assessment of bisphenol-A in the urban water cycle. Science of the Total Environment, 2019, 650, 900-907.	8.0	68
23	Biotic phase micropollutant distribution in horizontal sub-surface flow constructed wetlands. Science of the Total Environment, 2018, 630, 648-657.	8.0	61
24	Comparison of phosphodiesterase type V inhibitors use in eight European cities through analysis of urban wastewater. Environment International, 2018, 115, 279-284.	10.0	26
25	Stereochemistry of ephedrine and its environmental significance: Exposure and effects directed approach. Journal of Hazardous Materials, 2018, 348, 39-46.	12.4	23
26	Wastewater-based epidemiology and enantiomeric profiling for drugs of abuse in South African wastewaters. Science of the Total Environment, 2018, 625, 792-800.	8.0	82
27	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.	11.4	85
28	Mass spectrometric strategies for the investigation of biomarkers of illicit drug use in wastewater. Mass Spectrometry Reviews, 2018, 37, 258-280.	5.4	95
29	Enantiomeric profiling of chiral illicit drugs in a pan-European study. Water Research, 2018, 130, 151-160.	11.3	83
30	Verifying community-wide exposure to endocrine disruptors in personal care products â€“ In quest for metabolic biomarkers of exposure via inÂvitro studies and wastewater-based epidemiology. Water Research, 2018, 143, 117-126.	11.3	29
31	Enantioselective fractionation of fluoroquinolones in the aqueous environment using chiral liquid chromatography coupled with tandem mass spectrometry. Chemosphere, 2018, 206, 376-386.	8.2	31
32	Simultaneous enantiomeric analysis of pharmacologically active compounds in environmental samples by chiral LCâ€“MS/MS with a macrocyclic antibiotic stationary phase. Journal of Mass Spectrometry, 2017, 52, 94-108.	1.6	30
33	Multi-residue determination of micropollutants in Phragmites australis from constructed wetlands using microwave assisted extraction and ultra-high-performance liquid chromatography tandem mass spectrometry. Analytica Chimica Acta, 2017, 959, 91-101.	5.4	26
34	Critical evaluation of monitoring strategy for the multi-residue determination of 90 chiral and achiral micropollutants in effluent wastewater. Science of the Total Environment, 2017, 579, 569-578.	8.0	40
35	Wastewater-based epidemiology to assess pan-European pesticide exposure. Water Research, 2017, 121, 270-279.	11.3	110
36	New Analytical Framework for Verification of Biomarkers of Exposure to Chemicals Combining Human Biomonitoring and Water Fingerprinting. Analytical Chemistry, 2017, 89, 7232-7239.	6.5	16

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37	Measuring biomarkers in wastewater as a new source of epidemiological information: Current state and future perspectives. Environment International, 2017, 99, 131-150.	10.0	209
38	Monitoring Genetic Population Biomarkers for Wastewater-Based Epidemiology. Analytical Chemistry, 2017, 89, 9941-9945.	6.5	53
39	Estimation of caffeine intake from analysis of caffeine metabolites in wastewater. Science of the Total Environment, 2017, 609, 1582-1588.	8.0	87
40	Enantiomeric profiling of a chemically diverse mixture of chiral pharmaceuticals in urban water. Environmental Pollution, 2017, 230, 368-377.	7.5	58
41	Liquid chromatography-tandem mass spectrometry determination of synthetic cathinones and phenethylamines in influent wastewater of eight European cities. Chemosphere, 2017, 168, 1032-1041.	8.2	82
42	Catalytic ozonation of chlorinated VOCs on ZSM-5 zeolites and alumina: Formation of chlorides. Applied Catalysis B: Environmental, 2017, 200, 274-282.	20.2	82
43	Enantiomeric Profiling of Chiral Pharmacologically Active Compounds in the Environment with the Usage of Chiral Liquid Chromatography Coupled with Tandem Mass Spectrometry. Current Analytical Chemistry, 2016, 12, 303-314.	1.2	20
44	Comparison of pharmaceutical, illicit drug, alcohol, nicotine and caffeine levels in wastewater with sale, seizure and consumption data for 8 European cities. BMC Public Health, 2016, 16, 1035.	2.9	139
45	Increased levels of the oxidative stress biomarker 8-iso-prostaglandin F2Î± in wastewater associated with tobacco use. Scientific Reports, 2016, 6, 39055.	3.3	59
46	Enantioselective degradation of amphetamine-like environmental micropollutants (amphetamine,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.5	40
47	New Framework To Diagnose the Direct Disposal of Prescribed Drugs in Wastewater â€“ A Case Study of the Antidepressant Fluoxetine. Environmental Science & Technology, 2016, 50, 3781-3789.	10.0	44
48	Wastewater-Based Epidemiology To Monitor Synthetic Cathinones Use in Different European Countries. Environmental Science & Technology, 2016, 50, 10089-10096.	10.0	83
49	In Situ Calibration of a New Chemcatcher Configuration for the Determination of Polar Organic Micropollutants in Wastewater Effluent. Environmental Science & Technology, 2016, 50, 9469-9478.	10.0	39
50	Community Sewage Sensors towards Evaluation of Drug Use Trends: Detection of Cocaine in Wastewater with DNA-Directed Immobilization Aptamer Sensors. Scientific Reports, 2016, 6, 21024.	3.3	35
51	Enantioselective simultaneous analysis of selected pharmaceuticals in environmental samples by ultrahigh performance supercritical fluid based chromatography tandem mass spectrometry. Analytica Chimica Acta, 2016, 934, 239-251.	5.4	40
52	Enantiomeric profiling of chiral drug biomarkers in wastewater with the usage of chiral liquid chromatography coupled with tandem mass spectrometry. Journal of Chromatography A, 2016, 1438, 84-99.	3.7	75
53	Multi-residue analysis of 90 emerging contaminants in liquid and solid environmental matrices by ultra-high-performance liquid chromatography tandem mass spectrometry. Journal of Chromatography A, 2016, 1431, 64-78.	3.7	211
54	Feedbackâ€amplified electrochemical dualâ€plate boronâ€doped diamond microtrench detector for flow injection analysis. Electrophoresis, 2015, 36, 1866-1871.	2.4	3

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55	Multi-residue enantiomeric analysis of human and veterinary pharmaceuticals and their metabolites in environmental samples by chiral liquid chromatography coupled with tandem mass spectrometry detection. Analytical and Bioanalytical Chemistry, 2015, 407, 9085-9104.	3.7	50
56	Community Sewage Sensors for Monitoring Public Health. Environmental Science & Technology, 2015, 49, 5845-5846.	10.0	56
57	Determination of chiral pharmaceuticals and illicit drugs in wastewater and sludge using microwave assisted extraction, solid-phase extraction and chiral liquid chromatography coupled with tandem mass spectrometry. Analytica Chimica Acta, 2015, 882, 112-126.	5.4	113
58	A novel immobilization strategy for electrochemical detection of cancer biomarkers: DNA-directed immobilization of aptamer sensors for sensitive detection of prostate specific antigens. Analyst, The, 2015, 140, 2628-2633.	3.5	59
59	A Novel DNA Biosensor Using a Ferrocenyl Intercalator Applied to the Potential Detection of Human Population Biomarkers in Wastewater. Environmental Science & Technology, 2015, 49, 5609-5617.	10.0	44
60	Catalytic ozonation for the removal of organic contaminants in water on alumina. Applied Catalysis B: Environmental, 2015, 165, 408-418.	20.2	119
61	A review on emerging contaminants in wastewaters and the environment: Current knowledge, understudied areas and recommendations for future monitoring. Water Research, 2015, 72, 3-27.	11.3	1,942
62	Sewage-based Epidemiology Requires a Truly Transdisciplinary Approach. Gaia, 2014, 23, 266-268.	0.7	9
63	Catalytic ozonation for the removal of organic contaminants in water on ZSM-5 zeolites. Applied Catalysis B: Environmental, 2014, 154-155, 110-122.	20.2	90
64	Applications of chiral chromatography coupled with mass spectrometry in the analysis of chiral pharmaceuticals in the environment. Trends in Environmental Analytical Chemistry, 2014, 1, e34-e51.	10.3	38
65	Illicit and pharmaceutical drug consumption estimated via wastewater analysis. Part A: Chemical analysis and drug use estimates. Science of the Total Environment, 2014, 487, 629-641.	8.0	164
66	Enantiomer profiling of high loads of amphetamine and MDMA in communal sewage: A Dutch perspective. Science of the Total Environment, 2014, 487, 666-672.	8.0	77
67	Spatial differences and temporal changes in illicit drug use in <scp>E</scp>urope quantified by wastewater analysis. Addiction, 2014, 109, 1338-1352.	3.3	319
68	Cavity transport effects in generatorâ€“collector electrochemical analysis of nitrobenzene. Physical Chemistry Chemical Physics, 2014, 16, 18966-18973.	2.8	9
69	Oil|Water Interfacial Phosphate Transfer Facilitated by Boronic Acid: Observation of Unusually Fast Oil|Water Lateral Charge Transport. ChemElectroChem, 2014, 1, 1640-1646.	3.4	11
70	Stereoisomeric profiling of drugs of abuse and pharmaceuticals in wastewaters of Valencia (Spain). Science of the Total Environment, 2014, 494-495, 49-57.	8.0	36
71	Illicit and pharmaceutical drug consumption estimated via wastewater analysis. Part B: Placing back-calculations in a formal statistical framework. Science of the Total Environment, 2014, 487, 642-650.	8.0	48
72	Testing wastewater to detect illicit drugs: State of the art, potential and research needs. Science of the Total Environment, 2014, 487, 613-620.	8.0	149

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73	Special Issue. Testing the waters: A selection of papers from the first international multidisciplinary conference on detecting illicit drugs in wastewater. Science of the Total Environment, 2014, 487, 611-612.	8.0	0
74	Multi-residue enantiomeric analysis of pharmaceuticals and their active metabolites in the Guadalquivir River basin (South Spain) by chiral liquid chromatography coupled with tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2013, 405, 5859-5873.	3.7	76
75	Stereoselective biodegradation of amphetamine and methamphetamine in river microcosms. Water Research, 2013, 47, 5708-5718.	11.3	67
76	Spatial and temporal occurrence of pharmaceuticals and illicit drugs in the aqueous environment and during wastewater treatment: New developments. Science of the Total Environment, 2013, 454-455, 442-456.	8.0	289
77	Mechanisms of catalytic ozonation: An investigation into superoxide ion radical and hydrogen peroxide formation during catalytic ozonation on alumina and zeolites in water. Applied Catalysis B: Environmental, 2013, 129, 437-449.	20.2	172
78	Comparing illicit drug use in 19 European cities through sewage analysis. Science of the Total Environment, 2012, 432, 432-439.	8.0	416
79	Using chiral liquid chromatography quadrupole time-of-flight mass spectrometry for the analysis of pharmaceuticals and illicit drugs in surface and wastewater at the enantiomeric level. Journal of Chromatography A, 2012, 1249, 115-129.	3.7	81
80	Drugs of abuse in wastewater and suspended particulate matter â€" Further developments in sewage epidemiology. Environment International, 2012, 48, 28-38.	10.0	118
81	Enantiomeric Profiling of Chiral Drugs in Wastewater and Receiving Waters. Environmental Science & Technology, 2012, 46, 1681-1691.	10.0	130
82	Goldâ€gold junction electrodes:the disconnection method. Chemical Record, 2012, 12, 143-148.	5.8	11
83	Square Wave Electroanalysis at Generatorâ€“Collector Goldâ€“Gold Double Hemisphere Junctions. Electroanalysis, 2012, 24, 1726-1731.	2.9	5
84	Mechanisms of catalytic ozonation on alumina and zeolites in water: Formation of hydroxyl radicals. Applied Catalysis B: Environmental, 2012, 123-124, 94-106.	20.2	151
85	Estimation of community-wide drugs use via stereoselective profiling of sewage. Science of the Total Environment, 2012, 423, 142-150.	8.0	71
86	Multi-residue determination of the sorption of illicit drugs and pharmaceuticals to wastewater suspended particulate matter using pressurised liquid extraction, solid phase extraction and liquid chromatography coupled with tandem mass spectrometry. Journal of Chromatography A, 2011, 1218, 7901-7913.	3.7	128
87	Critical evaluation of methodology commonly used in sample collection, storage and preparation for the analysis of pharmaceuticals and illicit drugs in surface water and wastewater by solid phase extraction and liquid chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2011, 1218, 8036-8059.	3.7	221
88	Multi-residue analysis of drugs of abuse in wastewater and surface water by solid-phase extraction and liquid chromatographyâ€“positive electrospray ionisation tandem mass spectrometry. Journal of Chromatography A, 2011, 1218, 1620-1631.	3.7	235
89	Micellar chromatographic determination of partition coefficients and associated thermodynamic data for pharmaceutical compounds. Journal of Thermal Analysis and Calorimetry, 2010, 102, 343-347.	3.6	8
90	The efficiency and mechanisms of catalytic ozonation. Applied Catalysis B: Environmental, 2010, 99, 27-42.	20.2	811

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91	Enantiomeric analysis of drugs of abuse in wastewater by chiral liquid chromatography coupled with tandem mass spectrometry. Journal of Chromatography A, 2010, 1217, 4575-4586.	3.7	130
92	Response to Randhir P. Deo and Rolf U. Halden's comments regarding â€˜The removal of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs during wastewater treatment and its impact on the quality of receiving watersâ€™ by Kasprzyk-Hordern et al.. Water Research, 2010, 44, 2688-2690.	11.3	7
93	Pharmacologically active compounds in the environment and their chirality. Chemical Society Reviews, 2010, 39, 4466.	38.1	342
94	Illicit drugs and pharmaceuticals in the environment â€“ Forensic applications of environmental data. Part 1: Estimation of the usage of drugs in local communities. Environmental Pollution, 2009, 157, 1773-1777.	7.5	129
95	Illicit drugs and pharmaceuticals in the environment â€“ Forensic applications of environmental data, Part 2: Pharmaceuticals as chemical markers of faecal water contamination. Environmental Pollution, 2009, 157, 1778-1786.	7.5	86
96	The removal of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs during wastewater treatment and its impact on the quality of receiving waters. Water Research, 2009, 43, 363-380.	11.3	1,343
97	Multiresidue methods for the analysis of pharmaceuticals, personal care products and illicit drugs in surface water and wastewater by solid-phase extraction and ultra performance liquid chromatographyâ€“electrospray tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2008, 391, 1293-1308.	3.7	277
98	N-nitrosodimethylamine (NDMA) formation during ozonation of dimethylamine-containing waters. Water Research, 2008, 42, 863-870.	11.3	167
99	The occurrence of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs in surface water in South Wales, UK. Water Research, 2008, 42, 3498-3518.	11.3	921
100	The effect of signal suppression and mobile phase composition on the simultaneous analysis of multiple classes of acidic/neutral pharmaceuticals and personal care products in surface water by solid-phase extraction and ultra performance liquid chromatographyâ€“negative electrospray tandem mass spectrometry. Talanta, 2008, 74, 1299-1312.	5.5	124
101	Multi-residue method for the determination of basic/neutral pharmaceuticals and illicit drugs in surface water by solid-phase extraction and ultra performance liquid chromatographyâ€“positive electrospray ionisation tandem mass spectrometry. Journal of Chromatography A, 2007, 1161, 132-145.	3.7	343
102	Catalytic ozonation of natural organic matter on alumina. Applied Catalysis B: Environmental, 2006, 62, 345-358.	20.2	135
103	The hazard of N-nitrosodimethylamine (NDMA) formation during water disinfection with strong oxidants. Desalination, 2005, 176, 37-45.	8.2	95
104	Catalytic Ozonation of Gasoline Compounds in Model and Natural Water in the Presence of Perfluorinated Alumina Bonded Phases. Ozone: Science and Engineering, 2005, 27, 301-310.	2.5	17
105	Ozonation Enhancement with Nonpolar Bonded Alumina Phases. Ozone: Science and Engineering, 2004, 26, 367-380.	2.5	14
106	MTBE, DIPE, ETBE and TAME degradation in water using perfluorinated phases as catalysts for ozonation process. Applied Catalysis B: Environmental, 2004, 51, 51-66.	20.2	50
107	Chemistry of alumina, reactions in aqueous solution and its application in water treatment. Advances in Colloid and Interface Science, 2004, 110, 19-48.	14.7	420
108	The application of the perfluorinated bonded alumina phase for natural organic matter catalytic ozonation. Journal of Environmental Engineering and Science, 2004, 3, 41-50.	0.8	22

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109	MTBE, DIPE, ETBE and TAME degradation in water using perfluorinated phases as catalysts for ozonation process. Applied Catalysis B: Environmental, 2004, 51, 51-66.	20.2	0
110	Catalytic ozonation and methods of enhancing molecular ozone reactions in water treatment. Applied Catalysis B: Environmental, 2003, 46, 639-669.	20.2	1,203
111	Comments on â€œSolid Phase Catalytic Ozonation Process for the Destruction of a Model Pollutantâ€•by D.S. Pines and D.A. Reckhow (Ozone Sci. Eng. 25 (2003), 25). Ozone: Science and Engineering, 2003, 25, 535-538.	2.5	2
112	The Feasibility of Using a Perfluorinated Bonded Alumina Phase in the Ozonation Process. Ozone: Science and Engineering, 2003, 25, 185-197.	2.5	19