Charles S Wong

List of Publications by Year in descending order

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57758 82547 5,667 112 44 72 citations h-index g-index papers 117 117 117 5578 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Development and field evaluation of the organic-diffusive gradients in thin-films (o-DGT) passive water sampler for microcystins. Chemosphere, 2022, 287, 132079.	8.2	5
2	Scrutinizing surficial sediment along a 600-km-long urban coastal zone: Occurrence and risk assessment of fipronil and its three degradates. Science of the Total Environment, 2022, 807, 151071.	8.0	5
3	Effects of biofouling on the uptake of perfluorinated alkyl acids by organic-diffusive gradients in thin films passive samplers. Environmental Sciences: Processes and Impacts, 2022, 24, 242-251.	3.5	3
4	Evaluating the estrogenicity of an effluent-dominated river in California, USA: Comparisons of in vitro and in vivo bioassays. Science of the Total Environment, 2021, 758, 143965.	8.0	4
5	Photolysis of the nonsteroidal anti-inflammatory drug sulindac: elucidation of kinetic behaviour and photodegradation pathways in water. Environmental Sciences: Processes and Impacts, 2021, 23, 1405-1417.	3.5	3
6	Crushed recycled glass as a substrate for constructed wetland wastewater treatment: a case study of its potential to facilitate pharmaceutical removal. Environmental Science and Pollution Research, 2021, 28, 52306-52318.	5.3	4
7	Calibration of organic-diffusive gradients in thin films (o-DGT) passive samplers for perfluorinated alkyl acids in water. Chemosphere, 2021, 263, 128325.	8.2	26
8	Wastewater sources of per- and polyfluorinated alkyl substances (PFAS) and pharmaceuticals in four Canadian Arctic communities. Science of the Total Environment, 2020, 708, 134494.	8.0	49
9	Developing Unique Nontarget High-Resolution Mass Spectrometry Signatures to Track Contaminant Sources in Urban Waters. Environmental Science and Technology Letters, 2020, 7, 923-930.	8.7	32
10	Performance of the organic-diffusive gradients in thin-films passive sampler for measurement of target and suspect wastewater contaminants. Environmental Pollution, 2020, 261, 114092.	7.5	22
11	Photodegradation of bitumen-derived organics in oil sands process-affected water. Environmental Sciences: Processes and Impacts, 2020, 22, 1243-1255.	3.5	2
12	Impact of passive sampler protection apparatus on sediment porewater profiles of hydrophobic organic compounds. Chemosphere, 2020, 252, 126534.	8.2	4
13	Evaluation of cold-weather wastewater nitrification technology for removal of polar chemicals of emerging concern from rural Manitoba wastewaters. Chemosphere, 2020, 253, 126711.	8.2	3
14	In situ kinetics of human pharmaceutical conjugates and the impact of transformation, deconjugation, and sorption on persistence in wastewater batch bioreactors. Environmental Pollution, 2020, 265, 114852.	7.5	12
15	Current-use pesticides in New Zealand streams: Comparing results from grab samples and three types of passive samplers. Environmental Pollution, 2019, 254, 112973.	7.5	30
16	The effects of prosperity indices and land use indicators of an urban conurbation on the occurrence of hexabromocyclododecanes and tetrabromobisphenol A in surface soil in South China. Environmental Pollution, 2019, 252, 1810-1818.	7.5	11
17	The effects of diltiazem on growth, reproduction, energy reserves, and calcium-dependent physiology in Daphnia magna. Chemosphere, 2019, 232, 424-429.	8.2	12
18	Development and Validation of an Efficient Method for Processing Microplastics in Biota Samples. Environmental Toxicology and Chemistry, 2019, 38, 1400-1408.	4.3	35

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19	Associations between concentrations of perfluoroalkyl substances in human plasma and maternal, infant, and home characteristics in Winnipeg, Canada. Environmental Pollution, 2019, 249, 758-766.	7.5	26
20	Organophosphate flame retardants emitted from thermal treatment and open burning of e-waste. Journal of Hazardous Materials, 2019, 367, 390-396.	12.4	38
21	Interaction of toxic chemicals with microplastics: A critical review. Water Research, 2018, 139, 208-219.	11.3	612
22	The influence of pH on sampler uptake for an improved configuration of the organic-diffusive gradients in thin films passive sampler. Analytica Chimica Acta, 2018, 1018, 45-53.	5.4	40
23	Variation in bacterial community structure of aerobic granular and suspended activated sludge in the presence of the antibiotic sulfamethoxazole. Bioresource Technology, 2018, 261, 322-328.	9.6	67
24	Prophylactic benefits of systemically delivered simvastatin treatment in a house dust mite challenged murine model of allergic asthma. British Journal of Pharmacology, 2018, 175, 1004-1016.	5.4	15
25	Effects of gemfibrozil on the growth, reproduction, and energy stores of Daphnia magna in the presence of varying food concentrations. Chemosphere, 2018, 192, 75-80.	8.2	14
26	A review of methods for measuring microplastics in aquatic environments. Environmental Science and Pollution Research, 2018, 25, 11319-11332.	5.3	231
27	Pharmaceuticals and pesticides archived on polar passive sampling devices can be stable for up to 6 years. Environmental Toxicology and Chemistry, 2018, 37, 762-767.	4.3	27
28	Removal of antibiotic sulfamethoxazole by anoxic/anaerobic/oxic granular and suspended activated sludge processes. Bioresource Technology, 2018, 251, 151-157.	9.6	68
29	Field Evaluation and in Situ Stress Testing of the Organic-Diffusive Gradients in Thin-Films Passive Sampler. Environmental Science & Environmental Sc	10.0	64
30	Fate of thiamethoxam in mesocosms and response of the zooplankton community. Science of the Total Environment, 2018, 637-638, 1150-1157.	8.0	11
31	Attenuation of pharmaceuticals, nutrients and toxicity in a rural sewage lagoon system integrated with a subsurface filtration technology. Chemosphere, 2018, 209, 767-775.	8.2	13
32	Microplastics in the Terrestrial Environment. , 2018, , 365-378.		17
33	Inputs, source apportionment, and transboundary transport of pesticides and other polar organic contaminants along the lower Red River, Manitoba, Canada. Science of the Total Environment, 2018, 635, 803-816.	8.0	36
34	Distribution and fate of pharmaceuticals and their metabolite conjugates in a municipal wastewater treatment plant. Water Research, 2018, 144, 774-783.	11.3	67
35	Aquatic Global Passive Sampling (AQUA-GAPS) Revisited: First Steps toward a Network of Networks for Monitoring Organic Contaminants in the Aquatic Environment. Environmental Science & Eamp; Technology, 2017, 51, 1060-1067.	10.0	61
36	Measurement of thyroxine and its glucuronide in municipal wastewater and solids using weak anion exchange solid phase extraction and ultrahigh performance liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2017, 1525, 71-78.	3.7	4

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37	Intake, distribution, and metabolism of decabromodiphenyl ether and its main metabolites in chickens and implications for human dietary exposure. Environmental Pollution, 2017, 231, 795-801.	7.5	19
38	Absorption, tissue distribution, metabolism, and elimination of decabrominated diphenyl ether (BDE-209) in rats after multi-dose oral exposure. Chemosphere, 2017, 186, 749-756.	8.2	26
39	Late season pharmaceutical fate in wetland mesocosms with and without phosphorous addition. Environmental Science and Pollution Research, 2016, 23, 22678-22690.	5.3	3
40	Fugacity gradients of hydrophobic organics across the air-water interface measured with a novel passive sampler. Environmental Pollution, 2016, 218, 1108-1115.	7.5	5
41	The release of wastewater contaminants in the Arctic: A case study from Cambridge Bay, Nunavut, Canada. Environmental Pollution, 2016, 218, 542-550.	7. 5	29
42	Simultaneous quantification of propranolol and sulfamethoxazole and major human metabolite conjugates 4-hydroxy-propranolol sulfate and sulfamethoxazole-β-glucuronide in municipal wastewaterâ€"A framework for multiple classes of drugs and conjugates. Journal of Chromatography A, 2016, 1471, 34-44.	3.7	19
43	Development and Calibration of an Organic-Diffusive Gradients in Thin Films Aquatic Passive Sampler for a Diverse Suite of Polar Organic Contaminants. Analytical Chemistry, 2016, 88, 10583-10591.	6.5	139
44	Current trends in environmental analysis of human metabolite conjugates of pharmaceuticals. Trends in Environmental Analytical Chemistry, 2015, 5, 8-17.	10.3	14
45	Quantum Yields for Direct Photolysis of Neonicotinoid Insecticides in Water: Implications for Exposure to Nontarget Aquatic Organisms. Environmental Science and Technology Letters, 2015, 2, 188-192.	8.7	83
46	Selective serotonin reuptake inhibitors and $\hat{l}^2 \hat{a} \in b$ locker transformation products may not pose a significant risk of toxicity to aquatic organisms in wastewater effluenta \in dominated receiving waters. Integrated Environmental Assessment and Management, 2015, 11, 618-639.	2.9	14
47	Reducing nutrients, organic micropollutants, antibiotic resistance, and toxicity in rural wastewater effluent with subsurface filtration treatment technology. Ecological Engineering, 2015, 84, 375-385.	3.6	24
48	Performance of a Constructed Wetland in Grand Marais, Manitoba, Canada: Removal of Nutrients, Pharmaceuticals, and Antibiotic Resistance Genes from Municipal Wastewater., 2015,, 235-269.		0
49	Enantioselective accumulation of chiral polychlorinated biphenyls in lotus plant (Nelumbonucifera) Tj $$ ETQq 11 O.	.784314 r _j 12.4	gBT /Overlo
50	Chronic exposure to perfluorinated compounds: Impact on airway hyperresponsiveness and inflammation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L765-L774.	2.9	50
51	Simultaneous quantification of simvastatin and simvastatin hydroxy acid in blood serum at physiological pH by ultrahigh performance liquid chromatography–tandem mass spectrometry (UHPLC/MS/MS). Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences. 2014. 947-948. 145-150.	2.3	10
52	Macrophytes may not contribute significantly to removal of nutrients, pharmaceuticals, and antibiotic resistance in model surface constructed wetlands. Science of the Total Environment, 2014, 482-483, 294-304.	8.0	66
53	A critical assessment of the photodegradation of pharmaceuticals in aquatic environments: defining our current understanding and identifying knowledge gaps. Environmental Sciences: Processes and Impacts, 2014, 16, 672.	3.5	112
54	Response to "Letter to the Editor Concerning the Viewpoint; â€Recognizing the Limitations of Performance Reference Compound (PRC)-Calibration Technique in Passive Water Sampling'― Environmental Science & Environment	10.0	2

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55	Advancing passive sampling of contaminants in environmental science. Environmental Sciences: Processes and Impacts, 2014, 16, 366.	3.5	9
56	Temporal and spatial variation in polychlorinated biphenyl chiral signatures of the Greenland shark (Somniosus microcephalus) and its arctic marine food web. Environmental Pollution, 2014, 186, 216-225.	7.5	16
57	Performance of a constructed wetland in Grand Marais, Manitoba, Canada: Removal of nutrients, pharmaceuticals, and antibiotic resistance genes from municipal wastewater. Chemistry Central Journal, 2013, 7, 54.	2.6	67
58	Anthropogenic Activities Have Contributed Moderately to Increased Inputs of Organic Materials in Marginal Seas off China. Environmental Science & Eamp; Technology, 2013, 47, 11414-11422.	10.0	21
59	Recognizing the Limitations of Performance Reference Compound (PRC)-Calibration Technique in Passive Water Sampling. Environmental Science & Eamp; Technology, 2013, 47, 130829091606006.	10.0	13
60	Application of multiple geochemical markers to investigate organic pollution in a dynamic coastal zone. Environmental Toxicology and Chemistry, 2013, 32, 312-319.	4.3	21
61	Stability of pharmaceuticals and other polar organic compounds stored on polar organic chemical integrative samplers and solidâ€phase extraction cartridges. Environmental Toxicology and Chemistry, 2013, 32, 337-344.	4.3	46
62	Presence and hazards of nutrients and emerging organic micropollutants from sewage lagoon discharges into Dead Horse Creek, Manitoba, Canada. Science of the Total Environment, 2013, 445-446, 64-78.	8.0	70
63	Aquatic photochemistry of the sulfonamide antibiotic sulfapyridine. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 262, 14-21.	3.9	52
64	Disruption of biomolecule function by nanoparticles: How do gold nanoparticles affect Phase I biotransformation of persistent organic pollutants?. Chemosphere, 2013, 93, 123-132.	8.2	7
65	Stereoselective Formation of Mono- and Dihydroxylated Polychlorinated Biphenyls by Rat Cytochrome P450 2B1. Environmental Science & Echnology, 2013, 47, 12184-12192.	10.0	76
66	Quantification of achiral and chiral methylsulfonyl polychlorinated biphenyl metabolites by column-switching liquid chromatography–atmospheric pressure photoionization–tandem mass spectrometry. Journal of Chromatography A, 2012, 1268, 64-73.	3.7	9
67	Sedimentary loadings and ecological significance of polycyclic aromatic hydrocarbons in a typical mariculture zone of South China. Journal of Environmental Monitoring, 2012, 14, 2685.	2.1	7
68	Isomer-Specific Biotransformation of Perfluorooctane Sulfonamide in Sprague–Dawley Rats. Environmental Science & Technology, 2012, 46, 3196-3203.	10.0	60
69	Size-Dependent Dry Deposition of Airborne Polybrominated Diphenyl Ethers in Urban Guangzhou, China. Environmental Science & Eamp; Technology, 2012, 46, 7207-7214.	10.0	54
70	Enantiospecific Perfluorooctane Sulfonate (PFOS) Analysis Reveals Evidence for the Source Contribution of PFOS-Precursors to the Lake Ontario Foodweb. Environmental Science & Emp; Technology, 2012, 46, 7653-7660.	10.0	53
71	Sediment Records of Polycyclic Aromatic Hydrocarbons (PAHs) in the Continental Shelf of China: Implications for Evolving Anthropogenic Impacts. Environmental Science & Enviro	10.0	136
72	Determination of Polychlorinated Biphenyl Enantiomers in Lotus Root and Sediment by Chiral Gas Chromatography-Mass Spectrometry. Chinese Journal of Analytical Chemistry, 2012, 40, 1758-1763.	1.7	6

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73	Tracking chiral polychlorinated biphenyl sources near a hazardous waste incinerator: Fresh emissions or weathered revolatilization?. Environmental Toxicology and Chemistry, 2012, 31, 1453-1460.	4.3	9
74	Calculated respiratory exposure to indoor size-fractioned polycyclic aromatic hydrocarbons in an urban environment. Science of the Total Environment, 2012, 431, 245-251.	8.0	50
75	Factors Affecting Phase I Stereoselective Biotransformation of Chiral Polychlorinated Biphenyls by Rat Cytochrome P-450 2B1 Isozyme. Environmental Science & Environmental Science & 2011, 45, 8298-8305.	10.0	46
76	Comparison of the Enantiomer Distribution of Chiral Organochlorine Contaminants in Captive West Greenland Sled Dogs and Polar Bears from Baffin Bay. ACS Symposium Series, 2011, , 45-63.	0.5	2
77	Enantioselectivity of polychlorinated biphenyl atropisomers in sediment and biota from the Turtle/Brunswick River estuary, Georgia, USA. Marine Pollution Bulletin, 2011, 63, 548-555.	5.0	16
78	Perfluorooctane sulfonate toxicity, isomerâ€specific accumulation, and maternal transfer in zebrafish (<i>Danio rerio</i>) and rainbow trout (<i>Oncorhynchus mykiss</i>). Environmental Toxicology and Chemistry, 2010, 29, 1957-1966.	4.3	96
79	Comparison of electrospray ionization, atmospheric pressure photoionization, and anion attachment atmospheric pressure photoionization for the analysis of hexabromocyclododecane enantiomers in environmental samples. Journal of Chromatography A, 2010, 1217, 7855-7863.	3.7	17
80	Chiral Polychlorinated Biphenyl Transport, Metabolism, and Distribution: A Review. Environmental Science & Environmental Scien	10.0	120
81	Loadings, trends, comparisons, and fate of achiral and chiral pharmaceuticals in wastewaters from urban tertiary and rural aerated lagoon treatments. Water Research, 2010, 44, 533-544.	11.3	93
82	Chiral Polychlorinated Biphenyls Are Biotransformed Enantioselectively by Mammalian Cytochrome P-450 Isozymes to Form Hydroxylated Metabolites. Environmental Science & Enviro	10.0	83
83	Comparison of peak integration methods for the determination of enantiomeric fraction in environmental samples. Chemosphere, 2009, 75, 1042-1048.	8.2	41
84	JEM Spotlight: Recent advances in analysis of pharmaceuticals in the aquatic environment. Journal of Environmental Monitoring, 2009, 11, 923.	2.1	41
85	Chiral Organochlorine Contaminants in Blood and Eggs of Glaucous Gulls (<i>Larus) Tj ETQq1 1 0.784314 rgBT /C</i>	Overlock 1 10.0	.0 Tf 50 267 43
86	Enantiomer fractions of polychlorinated biphenyls in three selected Standard Reference Materials. Chemosphere, 2007, 66, 326-331.	8.2	17
87	Chiral Source Apportionment of Polychlorinated Biphenyls to the Hudson River Estuary Atmosphere and Food Web. Environmental Science & Environmental Sc	10.0	46
88	Solid phase microextraction of macrolide, trimethoprim, and sulfonamide antibiotics in wastewaters. Journal of Chromatography A, 2007, 1169, 53-62.	3.7	76
89	Stereoisomer analysis of wastewater-derived \hat{l}^2 -blockers, selective serotonin re-uptake inhibitors, and salbutamol by high-performance liquid chromatographyâ \in "tandem mass spectrometry. Journal of Chromatography A, 2007, 1170, 23-33.	3.7	145
90	ENANTIOMERIC COMPOSITION OF CHIRAL POLYCHLORINATED BIPHENYL ATROPISOMERS IN DATED SEDIMENT CORES. Environmental Toxicology and Chemistry, 2007, 26, 254.	4.3	22

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91	Laboratory calibration and field deployment of the Polar organic chemical integrative sampler for pharmaceuticals and personal care products in wastewater and surface water. Environmental Toxicology and Chemistry, 2007, 26, 2517-2529.	4.3	184
92	The Freshwater Invertebrate Mysis relicta Can Eliminate Chiral Organochlorine Compounds Enantioselectively. Environmental Science & Enantioselectively. Environmental Science & Enantioselectively.	10.0	28
93	Biotransformation of polychlorinated biphenyls (PCBs) and bioformation of hydroxylated PCBs in fish. Aquatic Toxicology, 2006, 78, 176-185.	4.0	134
94	Stereoisomer quantification of the -blocker drugs atenolol, metoprolol, and propranolol in wastewaters by chiral high-performance liquid chromatography–tandem mass spectrometry. Journal of Chromatography A, 2006, 1131, 103-109.	3.7	150
95	Environmental fate processes and biochemical transformations of chiral emerging organic pollutants. Analytical and Bioanalytical Chemistry, 2006, 386, 544-558.	3.7	181
96	ENANTIOMERIC FRACTIONS OF CHIRAL POLYCHLORINATED BIPHENYLS PROVIDE INSIGHTS ON BIOTRANSFORMATION CAPACITY OF ARCTIC BIOTA. Environmental Toxicology and Chemistry, 2005, 24, 2763.	4.3	48
97	Organochlorine Compounds in Lake Superior:Â Chiral Polychlorinated Biphenyls and Biotransformation in the Aquatic Food Web. Environmental Science & Environmental Science & 2004, 38, 84-92.	10.0	90
98	Changes in Enantiomeric Fractions during Microbial Reductive Dechlorination of PCB132, PCB149, and Aroclor 1254 in Lake Hartwell Sediment Microcosms. Environmental Science &	10.0	44
99	Airborne Haloacetic Acids. Environmental Science & Env	10.0	36
100	Measurement of $13C/12C$ of chloroacetic acids by gas chromatography/combustion/isotope ratio mass spectrometry. Chemosphere, 2003, 50, 903-909.	8.2	8
101	Profile of persistent chlorinated contaminants, including selected chiral compounds, in wolverine (Gulo gulo) livers from the Canadian Arctic. Chemosphere, 2003, 53, 551-560.	8.2	30
102	Differential Enantioselective Transformation of Atropisomeric Polychlorinated Biphenyls by Multiple Bacterial Strains with Different Inducing Compounds. Applied and Environmental Microbiology, 2002, 68, 5756-5759.	3.1	37
103	Rainbow Trout (Oncorhynchus mykiss) Can Eliminate Chiral Organochlorine Compounds Enantioselectively. Environmental Science & Enantioselectively. Environmental Science & Enantioselectively.	10.0	96
104	Enantiomer-Specific Accumulation of PCB Atropisomers in the Bowhead Whale (Balaena mysticetus). Environmental Science & Enviro	10.0	48
105	Enantiomer fractions of chiral organochlorine pesticides and polychlorinated biphenyls in standard and certified reference materials. Chemosphere, 2002, 49, 1339-1347.	8.2	58
106	Enantiomeric Composition of Chiral Polychlorinated Biphenyl Atropisomers in Aquatic and Riparian Biota. Environmental Science & Environmental Science	10.0	71
107	National-Scale, Field-Based Evaluation of the Biotaâ^'Sediment Accumulation Factor Model. Environmental Science & Environmental Science & Environmenta	10.0	92
108	Enantiomeric Composition of Chiral Polychlorinated Biphenyl Atropisomers in Aquatic Bed Sediment. Environmental Science & Envi	10.0	72

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109	Enantiomer separation of polychlorinated biphenyl atropisomers and polychlorinated biphenyl retention behavior on modified cyclodextrin capillary gas chromatography columns. Journal of Chromatography A, 2000, 866, 213-220.	3.7	71
110	Accumulation, Inventory, and Diagenesis of Chlorinated Hydrocarbons in Lake Ontario Sediments. Environmental Science & Environ	10.0	123
111	Sorption of radon-222 to natural sediments. Geochimica Et Cosmochimica Acta, 1992, 56, 3923-3932.	3.9	18
112	Aggregation of fine particles at the sedimentâ€water interface. Journal of Geophysical Research, 1992, 97, 17889-17898.	3.3	46