Carla A Ng

List of Publications by Year
in descending order

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52 papers	4,444 citations	172386 29 h-index	175177 52 g-index
56 all docs	56 docs citations	56 times ranked	3959 citing authors

#	Article	IF	Citations
1	Perâ€•and Polyfluoroalkyl Substance Toxicity and Human Health Review: Current State of Knowledge and Strategies for Informing Future Research. Environmental Toxicology and Chemistry, 2021, 40, 606-630.	2.2	697
2	An overview of the uses of per- and polyfluoroalkyl substances (PFAS). Environmental Sciences: Processes and Impacts, 2020, 22, 2345-2373.	1.7	632
3	PFAS Exposure Pathways for Humans and Wildlife: A Synthesis of Current Knowledge and Key Gaps in Understanding. Environmental Toxicology and Chemistry, 2021, 40, 631-657.	2.2	311
4	Bioaccumulation of Perfluorinated Alkyl Acids: Observations and Models. Environmental Science & Technology, 2014, 48, 4637-4648.	4.6	246
5	QUANTITATIVE PATTERNS IN THE STRUCTURE OF MODEL AND EMPIRICAL FOOD WEBS. Ecology, 2005, 86, 1301-1311.	1.5	179
6	The Global Food System as a Transport Pathway for Hazardous Chemicals: The Missing Link between Emissions and Exposure. Environmental Health Perspectives, 2017, 125, 1-7.	2.8	168
7	Bioconcentration of Perfluorinated Alkyl Acids: How Important Is Specific Binding?. Environmental Science & Technology, 2013, 47, 7214-7223.	4.6	167
8	Are Fluoropolymers Really of Low Concern for Human and Environmental Health and Separate from Other PFAS?. Environmental Science & Technology, 2020, 54, 12820-12828.	4.6	149
9	Strategies for grouping per- and polyfluoroalkyl substances (PFAS) to protect human and environmental health. Environmental Sciences: Processes and Impacts, 2020, 22, 1444-1460.	1.7	126
10	Screening for PBT Chemicals among the â€œExistingâ€•and â€œNewâ€•Chemicals of the EU. Environmental Science & Technology, 2012, 46, 5680-5687.	4.6	125
11	The concept of essential use for determining when uses of PFASs can be phased out. Environmental Sciences: Processes and Impacts, 2019, 21, 1803-1815.	1.7	125
12	The high persistence of PFAS is sufficient for their management as a chemical class. Environmental Sciences: Processes and Impacts, 2020, 22, 2307-2312.	1.7	125
13	Assessing the persistence, bioaccumulation potential and toxicity of brominated flame retardants: Data availability and quality for 36 alternative brominated flame retardants. Chemosphere, 2014, 116, 118-123.	4.2	108
14	Assessing the bioaccumulation potential of ionizable organic compounds: Current knowledge and research priorities. Environmental Toxicology and Chemistry, 2017, 36, 882-897.	2.2	106
15	Why is high persistence alone a major cause of concern?. Environmental Sciences: Processes and Impacts, 2019, 21, 781-792.	1.7	106
16	Influence of global climate change on chemical fate and bioaccumulation: The role of multimedia models. Environmental Toxicology and Chemistry, 2013, 32, 20-31.	2.2	102
17	How many persistent organic pollutants should we expect?. Atmospheric Pollution Research, 2012, 3, 383-391.	1.8	88
18	Exploring the Use of Molecular Docking to Identify Bioaccumulative Perfluorinated Alkyl Acids (PFAAs). Environmental Science & Technology, 2015, 49, 12306-12314.	4.6	81

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19	Predicting Relative Protein Affinity of Novel Per- and Polyfluoroalkyl Substances (PFASs) by An Efficient Molecular Dynamics Approach. Environmental Science & Technology, 2018, 52, 7972-7980.	4.6	81
20	Using Machine Learning to Classify Bioactivity for 3486 Per- and Polyfluoroalkyl Substances (PFASs) from the OECD List. Environmental Science & Technology, 2019, 53, 13970-13980.	4.6	68
21	Absorption, distribution, and toxicity of per- and polyfluoroalkyl substances (PFAS) in the brain: a review. Environmental Sciences: Processes and Impacts, 2021, 23, 1623-1640.	1.7	64
22	A Permeability-Limited Physiologically Based Pharmacokinetic (PBPK) Model for Perfluorooctanoic acid (PFOA) in Male Rats. Environmental Science & Technology, 2017, 51, 9930-9939.	4.6	49
23	Nontarget Screening of Per- and Polyfluoroalkyl Substances Binding to Human Liver Fatty Acid Binding Protein. Environmental Science & Technology, 2020, 54, 5676-5686.	4.6	45
24	Tracking pesticide fate in conventional banana cultivation in Costa Rica: A disconnect between protecting ecosystems and consumer health. Science of the Total Environment, 2018, 613-614, 1250-1262.	3.9	42
25	Perfluoroalkyl Acid Binding with Peroxisome Proliferator-Activated Receptors Î±, Î³, and Î´, and Fatty Acid Binding Proteins by Equilibrium Dialysis with a Comparison of Methods. Toxics, 2021, 9, 45.	1.6	34
26	Information Requirements under the Essential-Use Concept: PFAS Case Studies. Environmental Science & Technology, 2022, 56, 6232-6242.	4.6	32
27	A Framework for Evaluating the Contribution of Transformation Products to Chemical Persistence in the Environment. Environmental Science & Technology, 2011, 45, 111-117.	4.6	30
28	Forecasting the effects of global change scenarios on bioaccumulation patterns in great lakes species. Global Change Biology, 2011, 17, 720-733.	4.2	30
29	A pathway level analysis of PFAS exposure and risk of gestational diabetes mellitus. Environmental Health, 2021, 20, 63.	1.7	29
30	Understanding the dynamics of physiological changes, protein expression, and PFAS in wildlife. Environment International, 2022, 159, 107037.	4.8	29
31	Describing the environmental fate of diuron in a tropical river catchment. Science of the Total Environment, 2012, 440, 178-185.	3.9	27
32	Chemical amplification in an invaded food web: Seasonality and ontogeny in a highâ€biomass, lowâ€diversity ecosystem. Environmental Toxicology and Chemistry, 2008, 27, 2186-2195.	2.2	24
33	Evaluating parameter availability for physiologically based pharmacokinetic (PBPK) modeling of perfluorooctanoic acid (PFOA) in zebrafish. Environmental Sciences: Processes and Impacts, 2018, 20, 105-119.	1.7	20
34	Estimating polybrominated diphenyl ether (PBDE) exposure through seafood consumption in Switzerland using international food trade data. Environment International, 2020, 138, 105652.	4.8	19
35	Integrative Computational Approaches to Inform Relative Bioaccumulation Potential of Per- and Polyfluoroalkyl Substances Across Species. Toxicological Sciences, 2021, 180, 212-223.	1.4	18
36	Addressing Urgent Questions for PFAS in the 21st Century. Environmental Science & Technology, 2021, 55, 12755-12765.	4.6	17

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37	Finding essentiality feasible: common questions and misinterpretations concerning the â€œessential-useâ€• concept. Environmental Sciences: Processes and Impacts, 2021, 23, 1079-1087.	1.7	16
38	Tracking bioaccumulation in aquatic organisms: A dynamic model integrating life history characteristics and environmental change. Ecological Modelling, 2009, 220, 1266-1273.	1.2	14
39	Polybrominated Diphenyl Ether (PBDE) Accumulation in Farmed Salmon Evaluated Using a Dynamic Sea-Cage Production Model. Environmental Science & Technology, 2018, 52, 6965-6973.	4.6	13
40	Formation of PFAAs in fish through biotransformation: A PBPK approach. Chemosphere, 2018, 202, 218-227.	4.2	12
41	Impacts of Sex and Exposure Duration on Gene Expression in Zebrafish Following Perfluorooctane Sulfonate Exposure. Environmental Toxicology and Chemistry, 2020, 39, 437-449.	2.2	12
42	Network Analysis for Prioritizing Biodegradation Metabolites of Polycyclic Aromatic Hydrocarbons. Environmental Science & Technology, 2020, 54, 10735-10744.	4.6	12
43	Modeling the dynamics of DDT in a remote tropical floodplain: indications of post-ban use?. Environmental Science and Pollution Research, 2016, 23, 10317-10334.	2.7	11
44	Modeling the impact of biota on polychlorinated biphenyls (PCBs) fate and transport in Lake Ontario using a population-based multi-compartment fugacity approach. Environmental Pollution, 2018, 241, 720-729.	3.7	11
45	Socio-economic analysis for the authorisation of chemicals under REACH: A case of very high concern?. Regulatory Toxicology and Pharmacology, 2014, 70, 564-571.	1.3	9
46	Ecological engineering and sustainability: A new opportunity for chemical engineering. AICHE Journal, 2008, 54, 3040-3047.	1.8	7
47	Evaluating the Use of Alternatives Assessment To Compare Bulk Organic Chemical and Nanomaterial Alternatives to Brominated Flame Retardants. ACS Sustainable Chemistry and Engineering, 2016, 4, 6019-6030.	3.2	6
48	Quantitative Chemical Proteomics Reveals Interspecies Variations on Binding Schemes of L-FABP with Perfluorooctanesulfonate. Environmental Science & Technology, 2021, 55, 9012-9023.	4.6	4
49	Bayesian Refinement of the Permeability-Limited Physiologically Based Pharmacokinetic Model for Perfluorooctanoic Acid in Male Rats. Chemical Research in Toxicology, 2021, 34, 2298-2308.	1.7	4
50	Response to Comment on Screening for PBT Chemicals among the â€œExistingâ€•and â€œNewâ€•Chemicals of the EU. Environmental Science & Technology, 2013, 47, 6065-6066.	4.6	3
51	A Classification Model to Identify Direct-Acting Mutagenic Polycyclic Aromatic Hydrocarbon Transformation Products. Chemical Research in Toxicology, 2021, 34, 2273-2286.	1.7	3
52	A population-based simultaneous fugacity model design for polychlorinated biphenyls (PCBs) transport in an aquatic system. MethodsX, 2018, 5, 1311-1323.	0.7	2