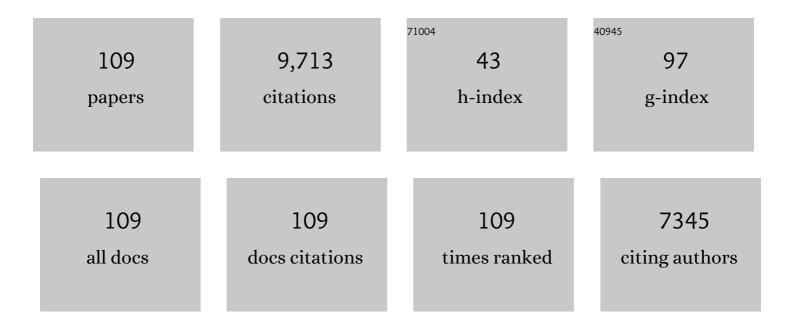
## Frank A P C Gobas

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6142332/publications.pdf Version: 2024-02-01



#	Article	lF	CITATIONS
1	A food web bioaccumulation model for the accumulation of per- and polyfluoroalkyl substances (PFAS) in fish: how important is renal elimination?. Environmental Sciences: Processes and Impacts, 2022, 24, 1152-1164.	1.7	11
2	Treatment of naphthenic acids in oil sands process-affected waters with a surface flow treatment wetland: mass removal, half-life, and toxicity-reduction. Environmental Research, 2022, 213, 113755.	3.7	8
3	Normalizing the Biomagnification Factor. Environmental Toxicology and Chemistry, 2021, 40, 1204-1211.	2.2	8
4	Strategic resources for assessing PFAS ecological risks at AFFF sites. Integrated Environmental Assessment and Management, 2021, 17, 746-752.	1.6	10
5	Deconvoluting Thermodynamics from Biology in the Aquatic Food Web Model. Environmental Toxicology and Chemistry, 2021, 40, 2145-2155.	2.2	5
6	Fugacity-Based Trophic Magnification Factors Characterize Bioaccumulation of Cyclic Methyl Siloxanes within an Urban Terrestrial Avian Food Web: Importance of Organism Body Temperature and Composition. Environmental Science & Technology, 2021, 55, 13932-13941.	4.6	11
7	Bioaccumulation of dodecamethylcyclohexasiloxane (D6) in fish. Chemosphere, 2021, 281, 130948.	4.2	8
8	A Toxicokinetic Framework and Analysis Tool for Interpreting Organisation for Economic Coâ€operation and Development Guideline 305 Dietary Bioaccumulation Tests. Environmental Toxicology and Chemistry, 2020, 39, 171-188.	2.2	21
9	Dietary Bioaccumulation and Biotransformation of Hydrophobic Organic Sunscreen Agents in Rainbow Trout. Environmental Toxicology and Chemistry, 2020, 39, 574-586.	2.2	13
10	Hepatic Clearance Binding Terms of Hydrophobic Organic Chemicals in Rainbow Trout: Application of a Streamlined Sorbent-Phase Dosing Method. Environmental Science and Technology Letters, 2020, 7, 672-676.	3.9	10
11	Treatment of Polycyclic Aromatic Hydrocarbons in Oil Sands Process-Affected Water with a Surface Flow Treatment Wetland. Environments - MDPI, 2020, 7, 64.	1.5	9
12	In vitro-in vivo extrapolation of hepatic and gastrointestinal biotransformation rates of hydrophobic chemicals in rainbow trout. Aquatic Toxicology, 2020, 228, 105629.	1.9	11
13	Trophic magnification of legacy persistent organic pollutants in an urban terrestrial food web. Science of the Total Environment, 2020, 714, 136746.	3.9	37
14	Concentration dependence of in vitro biotransformation rates of hydrophobic organic sunscreen agents in rainbow trout S9 fractions: Implications for bioaccumulation assessment. Environmental Toxicology and Chemistry, 2019, 38, 548-560.	2.2	29
15	Growthâ€Correcting the Bioconcentration Factor and Biomagnification Factor in Bioaccumulation Assessments. Environmental Toxicology and Chemistry, 2019, 38, 2065-2072.	2.2	13
16	Response to Comment on: "Estimating the Bioconcentration Factors of Hydrophobic Organic Chemicals from Biotransformation Rates Using Rainbow Trout Hepatocytes― Archives of Environmental Contamination and Toxicology, 2019, 76, 154-156.	2.1	0
17	Development and evaluation of a mechanistic model to assess the fate and removal efficiency of hydrophobic organic contaminants in horizontal subsurface flow treatment wetlands. Water Research, 2019, 151, 183-192.	5.3	17
18	Estimating the Bioconcentration Factors of Hydrophobic Organic Compounds from Biotransformation Rates Using Rainbow Trout Hepatocytes. Archives of Environmental Contamination and Toxicology, 2018, 75, 295-305.	2.1	13

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19	AGRO-2014: A time dependent model for assessing the fate and food-web bioaccumulation of organic pesticides in farm ponds: Model testing and performance analysis. Science of the Total Environment, 2018, 639, 1324-1333.	3.9	13
20	A chemical activity approach to exposure and risk assessment of chemicals. Environmental Toxicology and Chemistry, 2018, 37, 1235-1251.	2.2	40
21	In vitro to in vivo extrapolation of biotransformation rates for assessing bioaccumulation of hydrophobic organic chemicals in mammals. Environmental Toxicology and Chemistry, 2017, 36, 1934-1946.	2.2	17
22	Chemical activity–based environmental risk analysis of the plasticizer diâ€ethylhexyl phthalate and its main metabolite monoâ€ethylhexyl phthalate. Environmental Toxicology and Chemistry, 2017, 36, 1483-1492.	2.2	19
23	Deriving bioconcentration factors and somatic biotransformation rates from dietary bioaccumulation and depuration tests. Environmental Toxicology and Chemistry, 2016, 35, 2968-2976.	2.2	13
24	Review of existing terrestrial bioaccumulation models and terrestrial bioaccumulation modeling needs for organic chemicals. Integrated Environmental Assessment and Management, 2016, 12, 123-134.	1.6	50
25	In Vivo Biotransformation Rates of Organic Chemicals in Fish: Relationship with Bioconcentration and Biomagnification Factors. Environmental Science & amp; Technology, 2016, 50, 13299-13308.	4.6	32
26	Evaluating the roles of biotransformation, spatial concentration differences, organism home range, and field sampling design on trophic magnification factors. Science of the Total Environment, 2016, 551-552, 438-451.	3.9	43
27	Food Web Bioaccumulation Model for Resident Killer Whales from the Northeastern Pacific Ocean as a Tool for the Derivation of PBDE-Sediment Quality Guidelines. Archives of Environmental Contamination and Toxicology, 2016, 70, 155-168.	2.1	26
28	Characterization of ecological risks from environmental releases of decamethylcyclopentasiloxane (D5). Environmental Toxicology and Chemistry, 2015, 34, 2715-2722.	2.2	21
29	Bioaccumulation of decamethylpentacyclosiloxane (D5): A review. Environmental Toxicology and Chemistry, 2015, 34, 2703-2714.	2.2	29
30	Fugacity and activity analysis of the bioaccumulation and environmental risks of decamethylcyclopentasiloxane (D5). Environmental Toxicology and Chemistry, 2015, 34, 2723-2731.	2.2	32
31	Somatic and gastrointestinal in vivo biotransformation rates of hydrophobic chemicals in fish. Environmental Toxicology and Chemistry, 2015, 34, 2282-2294.	2.2	27
32	Concentration dependence of biotransformation in fish liver S9: Optimizing substrate concentrations to estimate hepatic clearance for bioaccumulation assessment. Environmental Toxicology and Chemistry, 2015, 34, 2782-2790.	2.2	23
33	Comment on "Unexpected Occurrence of Volatile Dimethylsiloxanes in Antarctic Soils, Vegetation, Phytoplankton, and Krill― Environmental Science & Technology, 2015, 49, 7507-7509.	4.6	11
34	Toward ecosystemâ€based sediment quality guidelines for polychlorinated biphenyls (PCBs). Integrated Environmental Assessment and Management, 2015, 11, 689-700.	1.6	8
35	Passive sampling methods for contaminated sediments: Practical guidance for selection, calibration, and implementation. Integrated Environmental Assessment and Management, 2014, 10, 210-223.	1.6	122
36	In vitro biotransformation rates in fish liver S9: Effect of dosing techniques. Environmental Toxicology and Chemistry, 2014, 33, 1885-1893.	2.2	25

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37	Organic Contaminants and Fish. Fish Physiology, 2013, 33, 1-52.	0.2	21
38	Biodegradation of <i>N</i> -Ethyl Perfluorooctane Sulfonamido Ethanol (EtFOSE) and EtFOSE-Based Phosphate Diester (SAmPAP Diester) in Marine Sediments. Environmental Science & Technology, 2013, 47, 1381-1389.	4.6	120
39	Mathematical relationships between metrics of chemical bioaccumulation in fish. Environmental Toxicology and Chemistry, 2013, 32, 1459-1466.	2.2	57
40	Habitat-Based PCB Environmental Quality Criteria for the Protection of Endangered Killer Whales ( <i>Orcinus orca</i> ). Environmental Science & Technology, 2012, 46, 12655-12663.	4.6	42
41	Measuring In Vitro Biotransformation Rates of Super Hydrophobic Chemicals in Rat Liver S9 Fractions Using Thin-Film Sorbent-Phase Dosing. Environmental Science & Technology, 2012, 46, 410-418.	4.6	21
42	Relationship between biodegradation and sorption of phthalate esters and their metabolites in natural sediments. Environmental Toxicology and Chemistry, 2012, 31, 1730-1737.	2.2	34
43	An interlaboratory comparison study for the determination of dialkyl phthalate esters in environmental and biological samples. Environmental Toxicology and Chemistry, 2012, 31, 1948-1956.	2.2	13
44	PBDE flame retardants and PCBs in migrating Steller sea lions (Eumetopias jubatus) in the Strait of Georgia, British Columbia, Canada. Chemosphere, 2012, 88, 855-864.	4.2	21
45	Use of trophic magnification factors and related measures to characterize bioaccumulation potential of chemicals. Integrated Environmental Assessment and Management, 2012, 8, 85-97.	1.6	87
46	Trophic magnification factors: Considerations of ecology, ecosystems, and study design. Integrated Environmental Assessment and Management, 2012, 8, 64-84.	1.6	365
47	DDT in endangered Galapagos sea lions (Zalophus wollebaeki). Marine Pollution Bulletin, 2011, 62, 660-671.	2.3	30
48	DDT Strikes Back: Galapagos Sea Lions Face Increasing Health Risks. Ambio, 2011, 40, 425-430.	2.8	19
49	Food web bioaccumulation model for polychlorinated biphenyls in San Francisco Bay, California, USA. Environmental Toxicology and Chemistry, 2010, 29, 1385-1395.	2.2	61
50	Response of a Macrotidal Estuary to Changes in Anthropogenic Mercury Loading between 1850 and 2000. Environmental Science & Technology, 2010, 44, 1698-1704.	4.6	63
51	Assessing exposure of sediment biota to organic contaminants by thinâ€film solid phase extraction. Environmental Toxicology and Chemistry, 2009, 28, 247-253.	2.2	33
52	POLYCHLORINATED BIPHENYLS AND POLYBROMINATED DIPHENYL ETHERS IN GALAPAGOS SEA LIONS (ZALOPHUS WOLLEBAEKI). Environmental Toxicology and Chemistry, 2009, 28, 2271.	2.2	29
53	Revisiting Bioaccumulation Criteria for POPs and PBT Assessments. Integrated Environmental Assessment and Management, 2009, 5, 624-637.	1.6	322
54	Introduction to Special Series: Science-Based Guidance and Framework for the Evaluation and Identification of PBTs and POPs. Integrated Environmental Assessment and Management, 2009, 5, 535.	1.6	20

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55	Perfluoroalkyl Contaminants in an Arctic Marine Food Web: Trophic Magnification and Wildlife Exposure. Environmental Science & Technology, 2009, 43, 4037-4043.	4.6	405
56	Ultra-Trace Determination of Phthalate Ester Metabolites in Seawater, Sediments, and Biota from an Urbanized Marine Inlet by LC/ESI-MS/MS. Environmental Science & Technology, 2009, 43, 6262-6268.	4.6	119
57	Response to Comment on "Perfluoroalkyl Contaminants in an Arctic Marine Food Web: Trophic Magnification and Wildlife Exposure― Environmental Science & Technology, 2009, 43, 6110-6111.	4.6	4
58	A fugacity approach for assessing the bioaccumulation of hydrophobic organic compounds from estuarine sediment. Environmental Toxicology and Chemistry, 2008, 27, 1047-1054.	2.2	21
59	Bioaccumulation behaviour of polybrominated diphenyl ethers (PBDEs) in a Canadian Arctic marine food web. Science of the Total Environment, 2008, 401, 60-72.	3.9	207
60	The uptake and metabolism of benzo[a]pyrene from a sample food substrate in an in vitro model of digestion. Food and Chemical Toxicology, 2008, 46, 610-618.	1.8	24
61	Biodegradation of mono-alkyl phthalate esters in natural sediments. Chemosphere, 2008, 71, 2011-2016.	4.2	32
62	Assessment of Human Health Risks of Consumption of Cadmium Contaminated Cultured Oysters. Human and Ecological Risk Assessment (HERA), 2007, 13, 370-382.	1.7	31
63	Food Web–Specific Biomagnification of Persistent Organic Pollutants. Science, 2007, 317, 236-239.	6.0	823
64	BENZO[a]PYRENE BIOAVAILABILITY FROM PRISTINE SOIL AND CONTAMINATED SEDIMENT ASSESSED USING TWO IN VITRO MODELS. Environmental Toxicology and Chemistry, 2007, 26, 387.	2.2	30
65	CHARACTERIZATION OF POLYCYCLIC AROMATIC HYDROCARBON BIOAVAILABILITY IN ESTUARINE SEDIMENTS USING THIN-FILM EXTRACTION. Environmental Toxicology and Chemistry, 2007, 26, 829.	2.2	33
66	The sorptive capacity of animal protein. Environmental Toxicology and Chemistry, 2007, 26, 1803-1808.	2.2	121
67	A Terrestrial Food-Chain Bioaccumulation Model for POPs. Environmental Science & Technology, 2007, 41, 4019-4025.	4.6	98
68	A Bioenergetic Biomagnification Model for the Animal Kingdom. Environmental Science & Technology, 2006, 40, 1581-1587.	4.6	62
69	Sorption of Phthalate Esters and PCBs in a Marine Ecosystem. Environmental Science & Technology, 2006, 40, 3481-3488.	4.6	168
70	A review of bioconcentration factor (BCF) and bioaccumulation factor (BAF) assessments for organic chemicals in aquatic organisms. Environmental Reviews, 2006, 14, 257-297.	2.1	1,013
71	Modelling the diagenetic fate of persistent organic pollutants in organically enriched sediments. Ecological Modelling, 2004, 179, 405-416.	1.2	33
72	A FOOD WEB BIOACCUMULATION MODEL FOR ORGANIC CHEMICALS IN AQUATIC ECOSYSTEMS. Environmental Toxicology and Chemistry, 2004, 23, 2343.	2.2	437

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73	INTESTINAL ABSORPTION AND BIOMAGNIFICATION OF ORGANIC CONTAMINANTS IN FISH, WILDLIFE, AND HUMANS. Environmental Toxicology and Chemistry, 2004, 23, 2324.	2.2	193
74	Distribution of Phthalate Esters in a Marine Aquatic Food Web:Â Comparison to Polychlorinated Biphenyls. Environmental Science & Technology, 2004, 38, 2011-2020.	4.6	201
75	Determination of polycyclic aromatic hydrocarbons in dungeness crabs ( <i>Cancer magister</i> ) near an aluminum smelter in Kitimat Arm, British Columbia, Canada. Environmental Toxicology and Chemistry, 2003, 22, 50-58.	2.2	24
76	Screening pyrene metabolites in the hemolymph of dungeness crabs ( <i>Cancer magister</i> ) with synchronous fluorescence spectrometry: Method development and application. Environmental Toxicology and Chemistry, 2003, 22, 59-66.	2.2	15
77	Determination of Phthalate Ester Congeners and Mixtures by LC/ESI-MS in Sediments and Biota of an Urbanized Marine Inlet. Environmental Science & Technology, 2003, 37, 2100-2108.	4.6	116
78	Sedimentâ^'Water Distribution of Organic Contaminants in Aquatic Ecosystems:Â The Role of Organic Carbon Mineralization. Environmental Science & Technology, 2003, 37, 735-741.	4.6	95
79	An Arctic Terrestrial Food-Chain Bioaccumulation Model for Persistent Organic Pollutants. Environmental Science & Technology, 2003, 37, 2966-2974.	4.6	118
80	Thin-Film Solid-Phase Extraction To Measure Fugacities of Organic Chemicals with Low Volatility in Biological Samples. Environmental Science & Technology, 2001, 35, 1425-1431.	4.6	111
81	Bioaccumulation of Persistent Organic Pollutants in Lichenâ^'Caribouâ^'Wolf Food Chains of Canada's Central and Western Arctic. Environmental Science & Technology, 2001, 35, 325-334.	4.6	151
82	Role of chemical and ecological factors in trophic transfer of organic chemicals in aquatic food webs. Environmental Toxicology and Chemistry, 1999, 18, 1250-1257.	2.2	99
83	An investigation of the application of the Canadian water quality guidelines. Environmental Toxicology and Chemistry, 1999, 18, 1323-1328.	2.2	7
84	Mechanism of Biomagnification in Fish under Laboratory and Field Conditions. Environmental Science & Technology, 1999, 33, 133-141.	4.6	263
85	Maternal Transfer and in Ovo Exposure of Organochlorines in Oviparous Organisms:Â A Model and Field Verification. Environmental Science & Technology, 1999, 33, 416-420.	4.6	173
86	Role of chemical and ecological factors in trophic transfer of organic chemicals in aquatic food webs. , 1999, 18, 1250.		6
87	Projected Changes to the Trophodynamics of PCBs in the Western Lake Erie Ecosystem Attributed to the Presence of Zebra Mussels (Dreissena polymorpha). Environmental Science & Technology, 1998, 32, 3862-3867.	4.6	41
88	Development and Field Validation of a Multimedia Exposure Assessment Model for Waste Load Allocation in Aquatic Ecosystems:Â Application to 2,3,7,8-Tetrachlorodibenzo-p-dioxin and 2,3,7,8-Tetrachlorodibenzofuran in the Fraser River Watershed. Environmental Science & Technology, 1998, 32, 2442-2449.	4.6	42
89	Development and Verification of a Benthic/Pelagic Food Web Bioaccumulation Model for PCB Congeners in Western Lake Erie. Environmental Science & Technology, 1997, 31, 3267-3273.	4.6	106
90	A pharmacokinetic analysis of interspecies extrapolation in dioxin risk assessment. Chemosphere, 1997, 35, 427-452.	4.2	21

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91	Development and Verification of a Bioaccumulation Model for Organic Contaminants in Benthic Invertebrates. Environmental Science & Technology, 1996, 30, 3377-3384.	4.6	129
92	Time Response of the Lake Ontario Ecosystem to Virtual Elimination of PCBs. Environmental Science & Technology, 1995, 29, 2038-2046.	4.6	73
93	A Rate Constant Model of Chemical Dynamics in a Lake Ecosystem: PCBs in Lake Ontario. Journal of Great Lakes Research, 1994, 20, 625-642.	0.8	55
94	Intestinal absorption and biomagnification of organochlorines. Environmental Toxicology and Chemistry, 1993, 12, 567-576.	2.2	149
95	Gastrointestinal magnification: the mechanism of biomagnification and food chain accumulation of organic chemicals. Environmental Science & amp; Technology, 1993, 27, 2855-2863.	4.6	195
96	A model for predicting the bioaccumulation of hydrophobic organic chemicals in aquatic food-webs: application to Lake Ontario. Ecological Modelling, 1993, 69, 1-17.	1.2	297
97	Intestinal absorption and biomagnification of organochlorines. , 1993, 12, 567.		9
98	Measuring bioconcentration factors and rate constants of chemicals in aquatic organisms under conditions of variable water concentrations and short exposure time. Chemosphere, 1992, 25, 1961-1971.	4.2	41
99	Bioconcentration of chlorinated aromatic hydrocarbons in aquatic macrophytes. Environmental Science & Technology, 1991, 25, 924-929.	4.6	100
100	Model of organic chemical uptake and clearance by fish from food and water. Environmental Science & Technology, 1990, 24, 1203-1213.	4.6	161
101	Bioconcentration of polybrominated benzenes and biphenyls and related superhydrophobic chemicals in fish: Role of bioavailability and elimination into the feces. Environmental Toxicology and Chemistry, 1989, 8, 231-245.	2.2	142
102	Bioconcentration of polybrominated benzenes and biphenyls and related superhydrophobic chemicals in fish: Role of bioavailability and elimination into the feces. , 1989, 8, 231.		12
103	A Novel Method for Measuring Membrane-Water Partition Coefficients of Hydrophobic Organic Chemicals: Comparison with 1-Octanol–Water Partitioning. Journal of Pharmaceutical Sciences, 1988, 77, 265-272.	1.6	205
104	Dynamics of dietary bioaccumulation and faecal elimination of hydrophobic organic chemicals in fish. Chemosphere, 1988, 17, 943-962.	4.2	200
105	Lake Sediments as Historic Records of Atmospheric Contamination by Organic Chemicals. Advances in Chemistry Series, 1987, , 57-77.	0.6	4
106	Dynamics of hydrophobic organic chemical bioconcentration in fish. Environmental Toxicology and Chemistry, 1987, 6, 495-504.	2.2	165
107	Dynamics of hydrophobic organic chemical bioconcentration in fish. , 1987, 6, 495.		6
108	Bioconcentration of hydrophobic chemicals in fish: Relationship with membrane permeation. Environmental Toxicology and Chemistry, 1986, 5, 637-646.	2.2	177

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109	Bioconcentration of hydrophobic chemicals in fish: Relationship with membrane permeation. , 1986, 5, 637.		7