

Robert C Buck

List of Publications by Year in descending order

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50
papers

9,453
citations

101543

36
h-index

189892

50
g-index

50
all docs

50
docs citations

50
times ranked

5764
citing authors

#	ARTICLE	IF	CITATIONS
1	Perfluoroalkyl and polyfluoroalkyl substances in the environment: Terminology, classification, and origins. <i>Integrated Environmental Assessment and Management</i> , 2011, 7, 513-541.	2.9	2,567
2	Sources, Fate and Transport of Perfluorocarboxylates. <i>Environmental Science & Technology</i> , 2006, 40, 32-44.	10.0	2,053
3	Are PFCAs Bioaccumulative? A Critical Review and Comparison with Regulatory Criteria and Persistent Lipophilic Compounds. <i>Environmental Science & Technology</i> , 2008, 42, 995-1003.	10.0	925
4	Matrix Effect-Free Analytical Methods for Determination of Perfluorinated Carboxylic Acids in Environmental Matrixes. <i>Analytical Chemistry</i> , 2005, 77, 6353-6358.	6.5	313
5	8-2 Fluorotelomer alcohol aerobic soil biodegradation: Pathways, metabolites, and metabolite yields. <i>Chemosphere</i> , 2009, 75, 1089-1096.	8.2	249
6	6:2 Fluorotelomer sulfonate aerobic biotransformation in activated sludge of waste water treatment plants. <i>Chemosphere</i> , 2011, 82, 853-858.	8.2	234
7	Fluorotelomer Alcohol Biodegradation Direct Evidence that Perfluorinated Carbon Chains Breakdown. <i>Environmental Science & Technology</i> , 2005, 39, 7516-7528.	10.0	231
8	Modeling Global-Scale Fate and Transport of Perfluorooctanoate Emitted from Direct Sources. <i>Environmental Science & Technology</i> , 2006, 40, 6969-6975.	10.0	217
9	Aerobic Biotransformation of ¹⁴ C-Labeled 8-2 Telomer B Alcohol by Activated Sludge from a Domestic Sewage Treatment Plant. <i>Environmental Science & Technology</i> , 2005, 39, 531-538.	10.0	202
10	6-2 Fluorotelomer alcohol aerobic biodegradation in soil and mixed bacterial culture. <i>Chemosphere</i> , 2010, 78, 437-444.	8.2	157
11	Investigation of the Biodegradation Potential of a Fluoroacrylate Polymer Product in Aerobic Soils. <i>Environmental Science & Technology</i> , 2008, 42, 800-807.	10.0	147
12	Exposure Assessment and Risk Characterization for Perfluorooctanoate in Selected Consumer Articles. <i>Environmental Science & Technology</i> , 2005, 39, 3904-3910.	10.0	144
13	Polyfluorinated chemicals in a spatially and temporally integrated food web in the Western Arctic. <i>Chemosphere</i> , 2008, 70, 664-672.	8.2	143
14	A critical review of the application of polymer of low concern and regulatory criteria to fluoropolymers. <i>Integrated Environmental Assessment and Management</i> , 2018, 14, 316-334.	2.9	129
15	Absorption, Distribution, Metabolism, and Elimination of 8-2 Fluorotelomer Alcohol in the Rat. <i>Toxicological Sciences</i> , 2006, 91, 341-355.	3.1	122
16	In Vitro Metabolism of 8-2 Fluorotelomer Alcohol: Interspecies Comparisons and Metabolic Pathway Refinement. <i>Toxicological Sciences</i> , 2007, 100, 333-344.	3.1	121
17	6:2 and 8:2 Fluorotelomer Alcohol Anaerobic Biotransformation in Digester Sludge from a WWTP under Methanogenic Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 4227-4235.	10.0	118
18	Vapor Pressure and Intramolecular Hydrogen Bonding in Fluorotelomer Alcohols. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6232-6241.	2.5	84

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19	Elimination kinetics of perfluorohexanoic acid in humans and comparison with mouse, rat and monkey. <i>Chemosphere</i> , 2013, 93, 2419-2425.	8.2	83
20	Thermal degradation of fluorotelomer treated articles and related materials. <i>Chemosphere</i> , 2005, 61, 974-984.	8.2	78
21	6:2 Fluorotelomer alcohol biotransformation in an aerobic river sediment system. <i>Chemosphere</i> , 2013, 90, 203-209.	8.2	76
22	5:3 Polyfluorinated acid aerobic biotransformation in activated sludge via novel α -keto-carbon removal pathways. <i>Chemosphere</i> , 2012, 87, 527-534.	8.2	74
23	Aerobic biodegradation of [¹⁴ C] 6:2 fluorotelomer alcohol in a flow-through soil incubation system. <i>Chemosphere</i> , 2010, 80, 716-723.	8.2	70
24	Vapor Pressures of Perfluorooctanoic, -nonanoic, -decanoic, -undecanoic, and -dodecanoic Acids. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 1841-1843.	1.9	68
25	High-Resolution Atmospheric Modeling of Fluorotelomer Alcohols and Perfluorocarboxylic Acids in the North American Troposphere. <i>Environmental Science & Technology</i> , 2007, 41, 5756-5762.	10.0	67
26	Kinetics of 8-2 fluorotelomer alcohol and its metabolites, and liver glutathione status following daily oral dosing for 45 days in male and female rats. <i>Chemico-Biological Interactions</i> , 2009, 180, 281-295.	4.0	66
27	6:2 Fluorotelomer alcohol aerobic biotransformation in activated sludge from two domestic wastewater treatment plants. <i>Chemosphere</i> , 2013, 92, 464-470.	8.2	65
28	Identification and classification of commercially relevant per- and polyfluoroalkyl substances (PFAS). <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 1045-1055.	2.9	60
29	Method development for the determination of residual fluorotelomer raw materials and perfluorooctanoate in fluorotelomer-based products by gas chromatography and liquid chromatography mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1110, 117-124.	3.7	54
30	Toxicological evaluation of sodium perfluorohexanoate. <i>Toxicology</i> , 2009, 264, 32-44.	4.2	51
31	Absorption, distribution, metabolism, and excretion of [1- ¹⁴ C]-perfluorohexanoate ([¹⁴ C]-PFHx) in rats and mice. <i>Toxicology</i> , 2011, 283, 55-62.	4.2	50
32	Atmospheric Chemistry of Perfluoroaldehydes (C _x F _{2x+1} CHO) and Fluorotelomer Aldehydes (C _x F _{2x+1} CH ₂ CHO): Quantification of the Important Role of Photolysis. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11944-11953.	2.5	49
33	Syntheses utilizing n-perfluoroalkyl iodides [RFI, C _n F _{2n+1} I] 2000-2010. <i>Journal of Fluorine Chemistry</i> , 2012, 138, 3-23.	1.7	48
34	Comparative acute freshwater hazard assessment and preliminary PNEC development for eight fluorinated acids. <i>Chemosphere</i> , 2012, 87, 725-733.	8.2	46
35	Determination of extractable perfluorooctanoic acid (PFOA) in water, sweat simulant, saliva simulant, and methanol from textile and carpet samples by LC/MS/MS. <i>Analyst</i> , 2005, 130, 670.	3.5	43
36	Evaluation of PFO formation from the biodegradation of a fluorotelomer-based urethane polymer product in aerobic soils. <i>Polymer Degradation and Stability</i> , 2010, 95, 79-85.	5.8	43

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37	Determination of fluorotelomer alcohols by liquid chromatography/tandem mass spectrometry in water. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2837-2844.	1.5	35
38	Physicochemical Properties of 8-2 Fluorinated Telomer B Alcohol. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 912-916.	1.9	33
39	8:2 fluorotelomer alcohol: A one-day nose-only inhalation toxicokinetic study in the Sprague-Dawley rat with application to risk assessment. <i>Toxicology</i> , 2012, 291, 122-132.	4.2	26
40	Estimating Environmental Hazard and Risks from Exposure to Per- and Polyfluoroalkyl Substances (PFASs): Outcome of a SETAC Focused Topic Meeting. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 543-549.	4.3	23
41	A critical review of the application of polymer of low concern regulatory criteria to fluoropolymers II: Fluoroplastics and fluoroelastomers. <i>Integrated Environmental Assessment and Management</i> , 2023, 19, 326-354.	2.9	21
42	Vapor pressure determinations of 8-2 fluorotelomer alcohol and 1-H perfluorooctane by capillary gas chromatography. <i>Journal of Chromatography A</i> , 2006, 1108, 248-251.	3.7	20
43	Toxicology Data for Alternative "Short-Chain" Fluorinated Substances. <i>Molecular and Integrative Toxicology</i> , 2015, , 451-477.	0.5	16
44	Comment on "Degradability of an Acrylate-Linked, Fluorotelomer Polymer in Soil". <i>Environmental Science & Technology</i> , 2010, 44, 848-848.	10.0	8
45	Toxicological assessment of tridecafluorohexylethyl methacrylate (6:2 FTMAC). <i>Toxicology</i> , 2012, 292, 42-52.	4.2	7
46	Subchronic, Reproductive, and Developmental Toxicity of a Fluorotelomer-Based Urethane Polymeric Product. <i>Drug and Chemical Toxicology</i> , 2008, 31, 317-337.	2.3	6
47	Complete multinuclear magnetic resonance characterization of a set of polyfluorinated acids and alcohols. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 194-198.	1.9	6
48	Absorption, Distribution, Metabolism, and Elimination of 8-2 Fluorotelomer Alcohol in the Rat. <i>Toxicological Sciences</i> , 2008, 102, 455-455.	3.1	2
49	Subchronic Toxicity of a Fluoroalkylethanol Mixture in Rats. <i>Drug and Chemical Toxicology</i> , 2005, 28, 135-158.	2.3	2
50	Letter to the Editor regarding, "Polyfluorinated Compounds: Past, Present, and Future". <i>Environmental Science & Technology</i> , 2011, 45, 9821-9821.	10.0	1