

Mark J Strynar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8843295/publications.pdf>

Version: 2024-02-01

99
papers

9,302
citations

38742

50
h-index

39675

94
g-index

109
all docs

109
docs citations

109
times ranked

6483
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyfluorinated Compounds: Past, Present, and Future. <i>Environmental Science & Technology</i> , 2011, 45, 7954-7961.	10.0	1,173
2	Legacy and Emerging Perfluoroalkyl Substances Are Important Drinking Water Contaminants in the Cape Fear River Watershed of North Carolina. <i>Environmental Science and Technology Letters</i> , 2016, 3, 415-419.	8.7	444
3	Effects of Perfluorooctanoic Acid Exposure during Pregnancy in the Mouse. <i>Toxicological Sciences</i> , 2006, 90, 510-518.	3.1	440
4	Per- and polyfluoroalkyl substances in the environment. <i>Science</i> , 2022, 375, eabg9065.	12.6	396
5	Fluorinated Compounds in U.S. Fast Food Packaging. <i>Environmental Science and Technology Letters</i> , 2017, 4, 105-111.	8.7	371
6	Identification of Novel Perfluoroalkyl Ether Carboxylic Acids (PFECAs) and Sulfonic Acids (PFESAs) in Natural Waters Using Accurate Mass Time-of-Flight Mass Spectrometry (TOFMS). <i>Environmental Science & Technology</i> , 2015, 49, 11622-11630.	10.0	288
7	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. <i>Toxicological Sciences</i> , 2019, 169, 317-332.	3.1	225
8	Perfluorooctanoic Acid Induced Developmental Toxicity in the Mouse is Dependent on Expression of Peroxisome Proliferator Activated Receptor-alpha. <i>Toxicological Sciences</i> , 2007, 98, 571-581.	3.1	219
9	Evaluation of Developmental Toxicity, Developmental Neurotoxicity, and Tissue Dose in Zebrafish Exposed to GenX and Other PFAS. <i>Environmental Health Perspectives</i> , 2020, 128, 47005.	6.0	206
10	Gestational PFOA Exposure of Mice is Associated with Altered Mammary Gland Development in Dams and Female Offspring. <i>Toxicological Sciences</i> , 2006, 96, 133-144.	3.1	177
11	Perfluorinated Compounds in House Dust from Ohio and North Carolina, USA. <i>Environmental Science & Technology</i> , 2008, 42, 3751-3756.	10.0	176
12	Perfluorooctanoic Acid-Induced Immunomodulation in Adult C57BL/6J or C57BL/6N Female Mice. <i>Environmental Health Perspectives</i> , 2008, 116, 644-650.	6.0	171
13	Application of WWTP Biosolids and Resulting Perfluorinated Compound Contamination of Surface and Well Water in Decatur, Alabama, USA. <i>Environmental Science & Technology</i> , 2011, 45, 8015-8021.	10.0	168
14	Novel Polyfluorinated Compounds Identified Using High Resolution Mass Spectrometry Downstream of Manufacturing Facilities near Decatur, Alabama. <i>Environmental Science & Technology</i> , 2017, 51, 1544-1552.	10.0	148
15	Integrating tools for non-targeted analysis research and chemical safety evaluations at the US EPA. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2018, 28, 411-426.	3.9	148
16	Linking high resolution mass spectrometry data with exposure and toxicity forecasts to advance high-throughput environmental monitoring. <i>Environment International</i> , 2016, 88, 269-280.	10.0	143
17	Evaluation of Maternal, Embryo, and Placental Effects in CD-1 Mice following Gestational Exposure to Perfluorooctanoic Acid (PFOA) or Hexafluoropropylene Oxide Dimer Acid (HFPO-DA or GenX). <i>Environmental Health Perspectives</i> , 2020, 128, 27006.	6.0	141
18	Perfluorinated Compounds in the Cape Fear Drainage Basin in North Carolina. <i>Environmental Science & Technology</i> , 2007, 41, 5271-5276.	10.0	138

#	ARTICLE	IF	CITATIONS
19	Nontargeted mass-spectral detection of chloroperfluoropolyether carboxylates in New Jersey soils. <i>Science</i> , 2020, 368, 1103-1107.	12.6	132
20	Fate of Per- and Polyfluoroalkyl Ether Acids in the Total Oxidizable Precursor Assay and Implications for the Analysis of Impacted Water. <i>Environmental Science and Technology Letters</i> , 2019, 6, 662-668.	8.7	124
21	Polyfluorinated compounds in dust from homes, offices, and vehicles as predictors of concentrations in office workers' serum. <i>Environment International</i> , 2013, 60, 128-136.	10.0	123
22	Identification of Per- and Polyfluoroalkyl Substances in the Cape Fear River by High Resolution Mass Spectrometry and Nontargeted Screening. <i>Environmental Science & Technology</i> , 2019, 53, 4717-4727.	10.0	119
23	Measurement of Novel, Drinking Water-Associated PFAS in Blood from Adults and Children in Wilmington, North Carolina. <i>Environmental Health Perspectives</i> , 2020, 128, 77005.	6.0	118
24	EPA's non-targeted analysis collaborative trial (ENTACT): genesis, design, and initial findings. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 853-866.	3.7	116
25	Adverse Maternal, Fetal, and Postnatal Effects of Hexafluoropropylene Oxide Dimer Acid (GenX) from Oral Gestational Exposure in Sprague-Dawley Rats. <i>Environmental Health Perspectives</i> , 2019, 127, 37008.	6.0	109
26	Developmental toxicity of perfluorooctane sulfonate (PFOS) is not dependent on expression of peroxisome proliferator activated receptor-alpha (PPAR α) in the mouse. <i>Reproductive Toxicology</i> , 2009, 27, 258-265.	2.9	107
27	Serum concentrations of perfluorinated compounds (PFC) among selected populations of children and Adults in California. <i>Environmental Research</i> , 2015, 136, 264-273.	7.5	107
28	Evidence of Air Dispersion: HFPO α -DA and PFOA in Ohio and West Virginia Surface Water and Soil near a Fluoropolymer Production Facility. <i>Environmental Science & Technology</i> , 2020, 54, 7175-7184.	10.0	104
29	Determination of Perfluorinated Compounds in the Upper Mississippi River Basin. <i>Environmental Science & Technology</i> , 2010, 44, 4103-4109.	10.0	100
30	Prenatal Perfluorooctanoic Acid Exposure in CD-1 Mice: Low-Dose Developmental Effects and Internal Dosimetry. <i>Toxicological Sciences</i> , 2011, 122, 134-145.	3.1	93
31	Comparative Hepatic Effects of Perfluorooctanoic Acid and WY 14,643 in PPAR α Knockout and Wild-type Mice. <i>Toxicologic Pathology</i> , 2008, 36, 632-639.	1.8	92
32	Pilot scale application of a method for the analysis of perfluorinated compounds in surface soils. <i>Chemosphere</i> , 2012, 86, 252-257.	8.2	91
33	Suspect screening and non-targeted analysis of drinking water using point-of-use filters. <i>Environmental Pollution</i> , 2018, 234, 297-306.	7.5	90
34	Modeling Single and Repeated Dose Pharmacokinetics of PFOA in Mice. <i>Toxicological Sciences</i> , 2009, 107, 331-341.	3.1	89
35	Determination of perfluorinated alkyl acid concentrations in human serum and milk standard reference materials. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 439-451.	3.7	87
36	Elevated levels of per- and polyfluoroalkyl substances in Cape Fear River Striped Bass (Morone t. j.) from Wilmington, North Carolina. <i>Environmental Health Perspectives</i> , 2020, 128, 105358.	10.0	84

#	ARTICLE	IF	CITATIONS
37	The mammary gland is a sensitive pubertal target in CD-1 and C57Bl/6 mice following perinatal perfluorooctanoic acid (PFOA) exposure. <i>Reproductive Toxicology</i> , 2015, 54, 26-36.	2.9	80
38	Hexafluoropropylene oxide-dimer acid (HFPO-DA or GenX) alters maternal and fetal glucose and lipid metabolism and produces neonatal mortality, low birthweight, and hepatomegaly in the Sprague-Dawley rat. <i>Environment International</i> , 2021, 146, 106204.	10.0	80
39	Perfluorinated compounds in whole fish homogenates from the Ohio, Missouri, and Upper Mississippi Rivers, USA. <i>Environmental Pollution</i> , 2008, 156, 1227-1232.	7.5	76
40	A Chemical Category-Based Prioritization Approach for Selecting 75 Per- and Polyfluoroalkyl Substances (PFAS) for Tiered Toxicity and Toxicokinetic Testing. <i>Environmental Health Perspectives</i> , 2019, 127, 14501.	6.0	75
41	Identification of fipronil metabolites by time-of-flight mass spectrometry for application in a human exposure study. <i>Environment International</i> , 2015, 78, 16-23.	10.0	70
42	Analysis of PFOA in dosed CD-1 mice. Part 2: Disposition of PFOA in tissues and fluids from pregnant and lactating mice and their pups. <i>Reproductive Toxicology</i> , 2009, 27, 365-372.	2.9	69
43	Geographical Distribution of Perfluorinated Compounds in Fish from Minnesota Lakes and Rivers. <i>Environmental Science & Technology</i> , 2010, 44, 2549-2554.	10.0	67
44	Comparative pharmacokinetics of perfluorononanoic acid in rat and mouse. <i>Toxicology</i> , 2011, 281, 48-55.	4.2	65
45	Developmental toxicity of perfluorononanoic acid in mice. <i>Reproductive Toxicology</i> , 2015, 51, 133-144.	2.9	64
46	Perfluorooctanoic acid induces developmental cardiotoxicity in chicken embryos and hatchlings. <i>Toxicology</i> , 2012, 293, 97-106.	4.2	62
47	Spatial and Temporal Patterns in Concentrations of Perfluorinated Compounds in Bald Eagle Nestlings in the Upper Midwestern United States. <i>Environmental Science & Technology</i> , 2014, 48, 6653-6660.	10.0	60
48	Validation of quantitative measurements and semi-quantitative estimates of emerging perfluoroethercarboxylic acids (PFECAs) and hexafluoropropylene oxide acids (HFPOAs). <i>Journal of Chromatography A</i> , 2018, 1551, 52-58.	3.7	55
49	Perfluorinated compounds in common carp (<i>Cyprinus carpio</i>) fillets from the Upper Mississippi River. <i>Environment International</i> , 2008, 34, 932-938.	10.0	54
50	Effects of perfluorinated chemicals on thyroid function, markers of ovarian reserve, and natural fertility. <i>Reproductive Toxicology</i> , 2017, 69, 53-59.	2.9	53
51	Reconstructing the Composition of Per- and Polyfluoroalkyl Substances in Contemporary Aqueous Film-Forming Foams. <i>Environmental Science and Technology Letters</i> , 2021, 8, 59-65.	8.7	50
52	Solvent Suitability for HFPO-DA (GenX Parent Acid) in Toxicological Studies. <i>Environmental Science and Technology Letters</i> , 2020, 7, 477-481.	8.7	49
53	Determination of perfluorinated alkyl acid concentrations in biological standard reference materials. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2683-2692.	3.7	48
54	Trophodynamics of Per- and Polyfluoroalkyl Substances in the Food Web of a Large Atlantic Slope River. <i>Environmental Science & Technology</i> , 2020, 54, 6800-6811.	10.0	47

#	ARTICLE	IF	CITATIONS
55	Perfluorooctanoic acid effects on ovaries mediate its inhibition of peripubertal mammary gland development in Balb/c and C57Bl/6 mice. <i>Reproductive Toxicology</i> , 2012, 33, 563-576.	2.9	45
56	Dosimetric Anchoring of In Vivo and In Vitro Studies for Perfluorooctanoate and Perfluorooctanesulfonate. <i>Toxicological Sciences</i> , 2013, 136, 308-327.	3.1	44
57	Determination of ten perfluorinated compounds in bluegill sunfish (<i>Lepomis macrochirus</i>) fillets. <i>Environmental Research</i> , 2009, 109, 975-984.	7.5	41
58	Reconnaissance of Mixed Organic and Inorganic Chemicals in Private and Public Supply Tapwaters at Selected Residential and Workplace Sites in the United States. <i>Environmental Science & Technology</i> , 2018, 52, 13972-13985.	10.0	41
59	Identification of Biomarkers of Exposure to FTOHs and PAPs in Humans Using a Targeted and Nontargeted Analysis Approach. <i>Environmental Science & Technology</i> , 2016, 50, 10216-10225.	10.0	40
60	Legacy and Novel Per- and Polyfluoroalkyl Substances in Juvenile Seabirds from the U.S. Atlantic Coast. <i>Environmental Science & Technology</i> , 2020, 54, 12938-12948.	10.0	40
61	An interlaboratory study of perfluorinated alkyl compound levels in human plasma. <i>Environmental Research</i> , 2008, 107, 152-159.	7.5	39
62	Comparison of fipronil sources in North Carolina surface water and identification of a novel fipronil transformation product in recycled wastewater. <i>Science of the Total Environment</i> , 2016, 569-570, 880-887.	8.0	39
63	Comparison of emerging contaminants in receiving waters downstream of a conventional wastewater treatment plant and a forest-water reuse system. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12451-12463.	5.3	37
64	Emerging Chlorinated Polyfluorinated Polyether Compounds Impacting the Waters of Southwestern New Jersey Identified by Use of Nontargeted Analysis. <i>Environmental Science and Technology Letters</i> , 2020, 7, 903-908.	8.7	35
65	Rapid Characterization of Emerging Per- and Polyfluoroalkyl Substances in Aqueous Film-Forming Foams Using Ion Mobility Spectrometry–Mass Spectrometry. <i>Environmental Science & Technology</i> , 2020, 54, 15024-15034.	10.0	35
66	Relative importance of wastewater treatment plants and non-point sources of perfluorinated compounds to Washington State rivers. <i>Science of the Total Environment</i> , 2011, 409, 2902-2907.	8.0	34
67	Assessment of serum biomarkers in rats after exposure to pesticides of different chemical classes. <i>Toxicology and Applied Pharmacology</i> , 2015, 282, 161-174.	2.8	34
68	Tissue-Specific Distribution of Legacy and Novel Per- and Polyfluoroalkyl Substances in Juvenile Seabirds. <i>Environmental Science and Technology Letters</i> , 2021, 8, 457-462.	8.7	34
69	mRNA transfection retrofits cell-based assays with xenobiotic metabolism. <i>Journal of Pharmacological and Toxicological Methods</i> , 2018, 92, 77-94.	0.7	31
70	Developmental toxicity of Nafion byproduct 2 (NBP2) in the Sprague-Dawley rat with comparisons to hexafluoropropylene oxide-dimer acid (HFPO-DA or GenX) and perfluorooctane sulfonate (PFOS). <i>Environment International</i> , 2022, 160, 107056.	10.0	30
71	Guest Comment: Perfluoroalkyl Acid Focus Issue. <i>Environmental Science & Technology</i> , 2011, 45, 7951-7953.	10.0	29
72	Estimating Common Parameters of Lognormally Distributed Environmental and Biomonitoring Data: Harmonizing Disparate Statistics from Publications. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2014, 17, 341-368.	6.5	29

#	ARTICLE	IF	CITATIONS
73	U.S. domestic cats as sentinels for perfluoroalkyl substances: Possible linkages with housing, obesity, and disease. <i>Environmental Research</i> , 2016, 151, 145-153.	7.5	29
74	Understanding the dynamics of physiological changes, protein expression, and PFAS in wildlife. <i>Environment International</i> , 2022, 159, 107037.	10.0	29
75	Partial life cycle and acute toxicity of perfluoroalkyl acids to freshwater mussels. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 1611-1620.	4.3	28
76	Desulfonation and defluorination of 6:2 fluorotelomer sulfonic acid (6:2 FTSA) by <i>Rhodococcus jostii</i> RHA1: Carbon and sulfur sources, enzymes, and pathways. <i>Journal of Hazardous Materials</i> , 2022, 423, 127052.	12.4	27
77	Gas-Phase Detection of Fluorotelomer Alcohols and Other Oxygenated Per- and Polyfluoroalkyl Substances by Chemical Ionization Mass Spectrometry. <i>Environmental Science and Technology Letters</i> , 2019, 6, 289-293.	8.7	25
78	Analysis of PFOA in dosed CD1 mice: Part 1. Methods development for the analysis of tissues and fluids from pregnant and lactating mice and their pups. <i>Reproductive Toxicology</i> , 2009, 27, 360-364.	2.9	24
79	Evaluation of the immunomodulatory effects of 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-propanoate in C57BL/6 mice. <i>Toxicological Sciences</i> , 2017, , kfw251.	3.1	24
80	Microbiota alter metabolism and mediate neurodevelopmental toxicity of 17 β -estradiol. <i>Scientific Reports</i> , 2019, 9, 7064.	3.3	23
81	Examining NTA performance and potential using fortified and reference house dust as part of EPA's Non-Targeted Analysis Collaborative Trial (ENTACT). <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4221-4233.	3.7	22
82	Polyfluorinated substances in abiotic standard reference materials. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2975-2983.	3.7	21
83	Identification of an Analytical Method Interference for Perfluorobutanoic Acid in Biological Samples. <i>Environmental Science and Technology Letters</i> , 2021, 8, 1085-1090.	8.7	20
84	Using ¹⁹ F NMR Spectroscopy to Determine Trifluralin Binding to Soil. <i>Environmental Science & Technology</i> , 2004, 38, 6645-6655.	10.0	19
85	Hydroxy-fipronil is a new urinary biomarker of exposure to fipronil. <i>Environment International</i> , 2017, 103, 91-98.	10.0	18
86	Footprints of Urban Micro-Pollution in Protected Areas: Investigating the Longitudinal Distribution of Perfluoroalkyl Acids in Wildlife Preserves. <i>PLoS ONE</i> , 2016, 11, e0148654.	2.5	14
87	pH dependent octanol-water partitioning coefficients of microcystin congeners. <i>Journal of Water and Health</i> , 2018, 16, 340-345.	2.6	14
88	Suspect screening and prioritization of chemicals of concern (COCs) in a forest-water reuse system watershed. <i>Science of the Total Environment</i> , 2019, 694, 133378.	8.0	13
89	Identifying Per- and Polyfluorinated Chemical Species with a Combined Targeted and Non-Targeted-Screening High-Resolution Mass Spectrometry Workflow. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	11
90	Are developmentally exposed C57BL/6 mice insensitive to suppression of TDAR by PFOA?. <i>Journal of Immunotoxicology</i> , 2010, 7, 344-349.	1.7	10

#	ARTICLE	IF	CITATIONS
91	Toxicity of Balb-c mice exposed to recently identified 1,1,2,2-tetrafluoro-2-[1,1,1,2,3,3-hexafluoro-3-(1,1,2,2-tetrafluoroethoxy)propan-2-yl]oxyethane-1-sulfonic acid (PFESA-BP2). <i>Toxicology</i> , 2020, 441, 152529.	4.2	9
92	Pharmacokinetic profile of Perfluorobutane Sulfonate and activation of hepatic nuclear receptor target genes in mice. <i>Toxicology</i> , 2020, 441, 152522.	4.2	9
93	Evaluating an Alternative Method for Rapid Urinary Creatinine Determination. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2014, 77, 1114-1123.	2.3	8
94	Per- and polyfluoroalkyl substances in two different populations of northern cardinals. <i>Chemosphere</i> , 2019, 222, 295-304.	8.2	8
95	Per-and polyfluoroalkyl substances (PFAS) and persistent chemical mixtures in dust from U.S. colleges. <i>Environmental Research</i> , 2022, 206, 112530.	7.5	8
96	Nitrogen and Phosphorus for Growth of Oil-Degrading Microorganisms in Seawater. <i>Bioremediation Journal</i> , 1999, 3, 85-91.	2.0	6
97	Anaerobic/Aerobic Composting of Soil Contaminated with 2,4,6-Trinitrotoluene. <i>Bioremediation Journal</i> , 2002, 6, 177-190.	2.0	5
98	Suspect-screening analysis of a coastal watershed before and after Hurricane Florence using high-resolution mass spectrometry. <i>Science of the Total Environment</i> , 2021, 782, 146862.	8.0	5
99	Optimization of a methylation procedure to obtain chloroform-soluble humic acids. <i>Soil Science and Plant Nutrition</i> , 2003, 49, 453-457.	1.9	3