Mark J Strynar

List of Publications by Year
in descending order

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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	Desulfonation and defluorination of 6:2 fluorotelomer sulfonic acid (6:2 FTSA) by Rhodococcus jostii RHA1: Carbon and sulfur sources, enzymes, and pathways. Journal of Hazardous Materials, 2022, 423, 127052.	12.4	27
2	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). Environment International, 2022, 160, 107056.	10.0	30
3	Per-and polyfluoroalkyl substances (PFAS) and persistent chemical mixtures in dust from U.S. colleges. Environmental Research, 2022, 206, 112530.	7.5	8
4	Understanding the dynamics of physiological changes, protein expression, and PFAS in wildlife. Environment International, 2022, 159, 107037.	10.0	29
5	Per- and polyfluoroalkyl substances in the environment. Science, 2022, 375, eabg9065.	12.6	396
6	Reconstructing the Composition of Per- and Polyfluoroalkyl Substances in Contemporary Aqueous Film-Forming Foams. Environmental Science and Technology Letters, 2021, 8, 59-65.	8.7	50
7	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. Environment International, 2021, 146, 106204.	10.0	80
8	Tissue-Specific Distribution of Legacy and Novel Per- and Polyfluoroalkyl Substances in Juvenile Seabirds. Environmental Science and Technology Letters, 2021, 8, 457-462.	8.7	34
9	Suspect-screening analysis of a coastal watershed before and after Hurricane Florence using high-resolution mass spectrometry. Science of the Total Environment, 2021, 782, 146862.	8.0	5
10	Identification of an Analytical Method Interference for Perfluorobutanoic Acid in Biological Samples. Environmental Science and Technology Letters, 2021, 8, 1085-1090.	8.7	20
11	Emerging Chlorinated Polyfluorinated Polyether Compounds Impacting the Waters of Southwestern New Jersey Identified by Use of Nontargeted Analysis. Environmental Science and Technology Letters, 2020, 7, 903-908.	8.7	35
12	Rapid Characterization of Emerging Per- and Polyfluoroalkyl Substances in Aqueous Film-Forming Foams Using Ion Mobility Spectrometryâ€“Mass Spectrometry. Environmental Science & Technology, 2020, 54, 15024-15034.	10.0	35
13	Measurement of Novel, Drinking Water-Associated PFAS in Blood from Adults and Children in Wilmington, North Carolina. Environmental Health Perspectives, 2020, 128, 77005.	6.0	118
14	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). Toxicology, 2020, 441, 152529.	4.2	9
15	Legacy and Novel Per- and Polyfluoroalkyl Substances in Juvenile Seabirds from the U.S. Atlantic Coast. Environmental Science & Technology, 2020, 54, 12938-12948.	10.0	40
16	Trophodynamics of Per- and Polyfluoroalkyl Substances in the Food Web of a Large Atlantic Slope River. Environmental Science & Technology, 2020, 54, 6800-6811.	10.0	47
17	Evidence of Air Dispersion: HFPOâ€“DA and PFOA in Ohio and West Virginia Surface Water and Soil near a Fluoropolymer Production Facility. Environmental Science & Technology, 2020, 54, 7175-7184.	10.0	104
18	Pharmacokinetic profile of Perfluorobutane Sulfonate and activation of hepatic nuclear receptor target genes in mice. Toxicology, 2020, 441, 152522.	4.2	9

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19	Nontargeted mass-spectral detection of chloroperfluoropolyether carboxylates in New Jersey soils. Science, 2020, 368, 1103-1107.	12.6	132
20	Examining NTA performance and potential using fortified and reference house dust as part of EPAâ€™s Non-Targeted Analysis Collaborative Trial (ENTACT). Analytical and Bioanalytical Chemistry, 2020, 412, 4221-4233.	3.7	22
21	Elevated levels of per- and polyfluoroalkyl substances in Cape Fear River Striped Bass (Morone) Tj ETQq1 1 0.784314 rgBT /Overlock 1 International, 2020, 136, 105358.	10.0	84
22	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). Environmental Health Perspectives, 2020, 128, 27006.	6.0	141
23	Evaluation of Developmental Toxicity, Developmental Neurotoxicity, and Tissue Dose in Zebrafish Exposed to GenX and Other PFAS. Environmental Health Perspectives, 2020, 128, 47005.	6.0	206
24	Solvent Suitability for HFPO-DA (â€œGenXâ€•Parent Acid) in Toxicological Studies. Environmental Science and Technology Letters, 2020, 7, 477-481.	8.7	49
25	Fate of Per- and Polyfluoroalkyl Ether Acids in the Total Oxidizable Precursor Assay and Implications for the Analysis of Impacted Water. Environmental Science and Technology Letters, 2019, 6, 662-668.	8.7	124
26	Suspect screening and prioritization of chemicals of concern (COCs) in a forest-water reuse system watershed. Science of the Total Environment, 2019, 694, 133378.	8.0	13
27	Microbiota alter metabolism and mediate neurodevelopmental toxicity of 17Î²-estradiol. Scientific Reports, 2019, 9, 7064.	3.3	23
28	Identifying Per- and Polyfluorinated Chemical Species with a Combined Targeted and Non-Targeted-Screening High-Resolution Mass Spectrometry Workflow. Journal of Visualized Experiments, 2019, , .	0.3	11
29	Identification of Per- and Polyfluoroalkyl Substances in the Cape Fear River by High Resolution Mass Spectrometry and Nontargeted Screening. Environmental Science & Technology, 2019, 53, 4717-4727.	10.0	119
30	The Next Generation Blueprint of Computational Toxicology at the U.S. Environmental Protection Agency. Toxicological Sciences, 2019, 169, 317-332.	3.1	225
31	Gas-Phase Detection of Fluorotelomer Alcohols and Other Oxygenated Per- and Polyfluoroalkyl Substances by Chemical Ionization Mass Spectrometry. Environmental Science and Technology Letters, 2019, 6, 289-293.	8.7	25
32	Adverse Maternal, Fetal, and Postnatal Effects of Hexafluoropropylene Oxide Dimer Acid (GenX) from Oral Gestational Exposure in Sprague-Dawley Rats. Environmental Health Perspectives, 2019, 127, 37008.	6.0	109
33	Per- and polyfluoroalkyl substances in two different populations of northern cardinals. Chemosphere, 2019, 222, 295-304.	8.2	8
34	A Chemical Category-Based Prioritization Approach for Selecting 75 Per- and Polyfluoroalkyl Substances (PFAS) for Tiered Toxicity and Toxicokinetic Testing. Environmental Health Perspectives, 2019, 127, 14501.	6.0	75
35	EPAâ€™s non-targeted analysis collaborative trial (ENTACT): genesis, design, and initial findings. Analytical and Bioanalytical Chemistry, 2019, 411, 853-866.	3.7	116
36	Comparison of emerging contaminants in receiving waters downstream of a conventional wastewater treatment plant and a forest-water reuse system. Environmental Science and Pollution Research, 2018, 25, 12451-12463.	5.3	37

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37	Integrating tools for non-targeted analysis research and chemical safety evaluations at the US EPA. Journal of Exposure Science and Environmental Epidemiology, 2018, 28, 411-426.	3.9	148
38	Validation of quantitative measurements and semi-quantitative estimates of emerging perfluoroethercarboxylic acids (PFECAs) and hexfluoroprolyene oxide acids (HFPOAs). Journal of Chromatography A, 2018, 1551, 52-58.	3.7	55
39	mRNA transfection retrofits cell-based assays with xenobiotic metabolism. Journal of Pharmacological and Toxicological Methods, 2018, 92, 77-94.	0.7	31
40	Suspect screening and non-targeted analysis of drinking water using point-of-use filters. Environmental Pollution, 2018, 234, 297-306.	7.5	90
41	Reconnaissance of Mixed Organic and Inorganic Chemicals in Private and Public Supply Tapwaters at Selected Residential and Workplace Sites in the United States. Environmental Science & Technology, 2018, 52, 13972-13985.	10.0	41
42	pH dependent octanolâ€“water partitioning coefficients of microcystin congeners. Journal of Water and Health, 2018, 16, 340-345.	2.6	14
43	Effects of perfluorinated chemicals on thyroid function, markers of ovarian reserve, and natural fertility. Reproductive Toxicology, 2017, 69, 53-59.	2.9	53
44	Fluorinated Compounds in U.S. Fast Food Packaging. Environmental Science and Technology Letters, 2017, 4, 105-111.	8.7	371
45	Novel Polyfluorinated Compounds Identified Using High Resolution Mass Spectrometry Downstream of Manufacturing Facilities near Decatur, Alabama. Environmental Science & Technology, 2017, 51, 1544-1552.	10.0	148
46	Evaluation of the immunomodulatory effects of 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-propanoate in C57BL/6 mice. Toxicological Sciences, 2017, , kfw251.	3.1	24
47	Hydroxy-fipronil is a new urinary biomarker of exposure to fipronil. Environment International, 2017, 103, 91-98.	10.0	18
48	Footprints of Urban Micro-Pollution in Protected Areas: Investigating the Longitudinal Distribution of Perfluoroalkyl Acids in Wildlife Preserves. PLoS ONE, 2016, 11, e0148654.	2.5	14
49	U.S. domestic cats as sentinels for perfluoroalkyl substances: Possible linkages with housing, obesity, and disease. Environmental Research, 2016, 151, 145-153.	7.5	29
50	Identification of Biomarkers of Exposure to FTOHs and PAPs in Humans Using a Targeted and Nontargeted Analysis Approach. Environmental Science & Technology, 2016, 50, 10216-10225.	10.0	40
51	Legacy and Emerging Perfluoroalkyl Substances Are Important Drinking Water Contaminants in the Cape Fear River Watershed of North Carolina. Environmental Science and Technology Letters, 2016, 3, 415-419.	8.7	444
52	Comparison of fipronil sources in North Carolina surface water and identification of a novel fipronil transformation product in recycled wastewater. Science of the Total Environment, 2016, 569-570, 880-887.	8.0	39
53	Linking high resolution mass spectrometry data with exposure and toxicity forecasts to advance high-throughput environmental monitoring. Environment International, 2016, 88, 269-280.	10.0	143
54	Assessment of serum biomarkers in rats after exposure to pesticides of different chemical classes. Toxicology and Applied Pharmacology, 2015, 282, 161-174.	2.8	34

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55	Identification of fipronil metabolites by time-of-flight mass spectrometry for application in a human exposure study. Environment International, 2015, 78, 16-23.	10.0	70
56	The mammary gland is a sensitive pubertal target in CD-1 and C57Bl/6 mice following perinatal perfluorooctanoic acid (PFOA) exposure. Reproductive Toxicology, 2015, 54, 26-36.	2.9	80
57	Developmental toxicity of perfluorononanoic acid in mice. Reproductive Toxicology, 2015, 51, 133-144.	2.9	64
58	Identification of Novel Perfluoroalkyl Ether Carboxylic Acids (PFECAs) and Sulfonic Acids (PFESAs) in Natural Waters Using Accurate Mass Time-of-Flight Mass Spectrometry (TOFMS). Environmental Science & Technology, 2015, 49, 11622-11630.	10.0	288
59	Serum concentrations of perfluorinated compounds (PFC) among selected populations of children and Adults in California. Environmental Research, 2015, 136, 264-273.	7.5	107
60	Polyfluorinated substances in abiotic standard reference materials. Analytical and Bioanalytical Chemistry, 2015, 407, 2975-2983.	3.7	21
61	Estimating Common Parameters of Lognormally Distributed Environmental and Biomonitoring Data: Harmonizing Disparate Statistics from Publications. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2014, 17, 341-368.	6.5	29
62	Spatial and Temporal Patterns in Concentrations of Perfluorinated Compounds in Bald Eagle Nestlings in the Upper Midwestern United States. Environmental Science & Technology, 2014, 48, 6653-6660.	10.0	60
63	Evaluating an Alternative Method for Rapid Urinary Creatinine Determination. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2014, 77, 1114-1123.	2.3	8
64	Polyfluorinated compounds in dust from homes, offices, and vehicles as predictors of concentrations in office workers' serum. Environment International, 2013, 60, 128-136.	10.0	123
65	Dosimetric Anchoring of In Vivo and In Vitro Studies for Perfluorooctanoate and Perfluorooctanesulfonate. Toxicological Sciences, 2013, 136, 308-327.	3.1	44
66	Determination of perfluorinated alkyl acid concentrations in biological standard reference materials. Analytical and Bioanalytical Chemistry, 2012, 404, 2683-2692.	3.7	48
67	Partial lifeâ€cycle and acute toxicity of perfluoroalkyl acids to freshwater mussels. Environmental Toxicology and Chemistry, 2012, 31, 1611-1620.	4.3	28
68	Pilot scale application of a method for the analysis of perfluorinated compounds in surface soils. Chemosphere, 2012, 86, 252-257.	8.2	91
69	Perfluorooctanoic acid effects on ovaries mediate its inhibition of peripubertal mammary gland development in Balb/c and C57Bl/6 mice. Reproductive Toxicology, 2012, 33, 563-576.	2.9	45
70	Perfluorooctanoic acid induces developmental cardiotoxicity in chicken embryos and hatchlings. Toxicology, 2012, 293, 97-106.	4.2	62
71	Application of WWTP Biosolids and Resulting Perfluorinated Compound Contamination of Surface and Well Water in Decatur, Alabama, USA. Environmental Science & Technology, 2011, 45, 8015-8021.	10.0	168
72	Guest Comment: Perfluoroalkyl Acid Focus Issue. Environmental Science & Technology, 2011, 45, 7951-7953.	10.0	29

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73	Polyfluorinated Compounds: Past, Present, and Future. Environmental Science & Technology, 2011, 45, 7954-7961.	10.0	1,173
74	Relative importance of wastewater treatment plants and non-point sources of perfluorinated compounds to Washington State rivers. Science of the Total Environment, 2011, 409, 2902-2907.	8.0	34
75	Comparative pharmacokinetics of perfluorononanoic acid in rat and mouse. Toxicology, 2011, 281, 48-55.	4.2	65
76	Prenatal Perfluorooctanoic Acid Exposure in CD-1 Mice: Low-Dose Developmental Effects and Internal Dosimetry. Toxicological Sciences, 2011, 122, 134-145.	3.1	93
77	Determination of perfluorinated alkyl acid concentrations in human serum and milk standard reference materials. Analytical and Bioanalytical Chemistry, 2010, 397, 439-451.	3.7	87
78	Are developmentally exposed C57BL/6 mice insensitive to suppression of TDAR by PFOA?. Journal of Immunotoxicology, 2010, 7, 344-349.	1.7	10
79	Determination of Perfluorinated Compounds in the Upper Mississippi River Basin. Environmental Science & Technology, 2010, 44, 4103-4109.	10.0	100
80	Geographical Distribution of Perfluorinated Compounds in Fish from Minnesota Lakes and Rivers. Environmental Science & Technology, 2010, 44, 2549-2554.	10.0	67
81	Modeling Single and Repeated Dose Pharmacokinetics of PFOA in Mice. Toxicological Sciences, 2009, 107, 331-341.	3.1	89
82	Developmental toxicity of perfluorooctane sulfonate (PFOS) is not dependent on expression of peroxisome proliferator activated receptor-alpha (PPARÎ±) in the mouse. Reproductive Toxicology, 2009, 27, 258-265.	2.9	107
83	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. Reproductive Toxicology, 2009, 27, 360-364.	2.9	24
84	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. Reproductive Toxicology, 2009, 27, 365-372.	2.9	69
85	Determination of ten perfluorinated compounds in bluegill sunfish (Lepomis macrochirus) fillets. Environmental Research, 2009, 109, 975-984.	7.5	41
86	Perfluorinated compounds in whole fish homogenates from the Ohio, Missouri, and Upper Mississippi Rivers, USA. Environmental Pollution, 2008, 156, 1227-1232.	7.5	76
87	An interlaboratory study of perfluorinated alkyl compound levels in human plasma. Environmental Research, 2008, 107, 152-159.	7.5	39
88	Perfluorinated compounds in common carp (Cyprinus carpio) fillets from the Upper Mississippi River. Environment International, 2008, 34, 932-938.	10.0	54
89	Perfluorinated Compounds in House Dust from Ohio and North Carolina, USA. Environmental Science & Technology, 2008, 42, 3751-3756.	10.0	176
90	Comparative Hepatic Effects of Perfluorooctanoic Acid and WY 14,643 in PPAR-Î± Knockout and Wild-type Mice. Toxicologic Pathology, 2008, 36, 632-639.	1.8	92

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91	Perfluorooctanoic Acidâ€“Induced Immunomodulation in Adult C57BL/6J or C57BL/6N Female Mice. Environmental Health Perspectives, 2008, 116, 644-650.	6.0	171
92	Perfluorooctanoic Acid Induced Developmental Toxicity in the Mouse is Dependent on Expression of Peroxisome Proliferator Activated Receptor-alpha. Toxicological Sciences, 2007, 98, 571-581.	3.1	219
93	Perfluorinated Compounds in the Cape Fear Drainage Basin in North Carolina. Environmental Science & Technology, 2007, 41, 5271-5276.	10.0	138
94	Effects of Perfluorooctanoic Acid Exposure during Pregnancy in the Mouse. Toxicological Sciences, 2006, 90, 510-518.	3.1	440
95	Gestational PFOA Exposure of Mice is Associated with Altered Mammary Gland Development in Dams and Female Offspring. Toxicological Sciences, 2006, 96, 133-144.	3.1	177
96	Using19F NMR Spectroscopy to Determine Trifluralin Binding to Soil. Environmental Science & Technology, 2004, 38, 6645-6655.	10.0	19
97	Optimization of a methylation procedure to obtain chloroform-soluble humic acids. Soil Science and Plant Nutrition, 2003, 49, 453-457.	1.9	3
98	Anaerobic/Aerobic Composting of Soil Contaminated with 2,4,6-Trinitrotoluene. Bioremediation Journal, 2002, 6, 177-190.	2.0	5
99	Nitrogen and Phosphorus for Growth of Oil-Degrading Microorganisms in Seawater. Bioremediation Journal, 1999, 3, 85-91.	2.0	6