

# Timothy W Collette

## List of Publications by Year in descending order

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57  
papers

2,869  
citations

201674

27  
h-index

168389

53  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3439  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Eco-Exposome Concept: Supporting an Integrated Assessment of Mixtures of Environmental Chemicals. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 30-45.	4.3	25
2	Untargeted Lipidomics for Determining Cellular and Subcellular Responses in Zebrafish ( <i>Danio rerio</i> ) Liver Cells Following Exposure to Complex Mixtures in U.S. Streams. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8180-8190.	10.0	9
3	Cell-Based Metabolomics for Untargeted Screening and Prioritization of Vertebrate-Active Stressors in Streams Across the United States. <i>Environmental Science &amp; Technology</i> , 2019, 53, 9232-9240.	10.0	8
4	Evaluation of targeted and untargeted effects-based monitoring tools to assess impacts of contaminants of emerging concern on fish in the South Platte River, CO. <i>Environmental Pollution</i> , 2018, 239, 706-713.	7.5	19
5	High-resolution mass spectrometry of skin mucus for monitoring physiological impacts and contaminant biotransformation products in fathead minnows exposed to wastewater effluent. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 788-796.	4.3	22
6	Assessing the impact of wastewater treatment plant effluent on downstream drinking water-source quality using a zebrafish ( <i>Danio Rerio</i> ) liver cell-based metabolomics approach. <i>Water Research</i> , 2018, 145, 198-209.	11.3	29
7	Metabolomics for informing adverse outcome pathways: Androgen receptor activation and the pharmaceutical spironolactone. <i>Aquatic Toxicology</i> , 2017, 184, 103-115.	4.0	21
8	Derivation and Evaluation of Putative Adverse Outcome Pathways for the Effects of Cyclooxygenase Inhibitors on Reproductive Processes in Female Fish. <i>Toxicological Sciences</i> , 2017, 156, 344-361.	3.1	14
9	The Role of Omics in the Application of Adverse Outcome Pathways for Chemical Risk Assessment. <i>Toxicological Sciences</i> , 2017, 158, 252-262.	3.1	161
10	Linking field-based metabolomics and chemical analyses to prioritize contaminants of emerging concern in the Great Lakes basin. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 2493-2502.	4.3	36
11	Metabolite profiles of repeatedly sampled urine from male fathead minnows ( <i>Pimephales promelas</i> ) contain unique lipid signatures following exposure to anti-androgens. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2016, 19, 190-198.	1.0	7
12	Metabolite Profiling of Fish Skin Mucus: A Novel Approach for Minimally-Invasive Environmental Exposure Monitoring and Surveillance. <i>Environmental Science &amp; Technology</i> , 2015, 49, 3091-3100.	10.0	76
13	Integrated approach to explore the mechanisms of aromatase inhibition and recovery in fathead minnows ( <i>Pimephales promelas</i> ). <i>General and Comparative Endocrinology</i> , 2014, 203, 193-202.	1.8	17
14	Metabolomics for <i>In Situ</i> Environmental Monitoring of Surface Waters Impacted by Contaminants from Both Point and Nonpoint Sources. <i>Environmental Science &amp; Technology</i> , 2014, 48, 140115140646006.	10.0	28
15	Impacts of 17 $\beta$ -ethynylestradiol exposure on metabolite profiles of zebrafish ( <i>Danio rerio</i> ) liver cells. <i>Aquatic Toxicology</i> , 2013, 130-131, 184-191.	4.0	24
16	Field-Based Approach for Assessing the Impact of Treated Pulp and Paper Mill Effluent on Endogenous Metabolites of Fathead Minnows ( <i>Pimephales promelas</i> ). <i>Environmental Science &amp; Technology</i> , 2013, 47, 130830150520002.	10.0	17
17	Environmental Reviews and Case Studies: Biological Effects-Based Tools for Monitoring Impacted Surface Waters in the Great Lakes: A Multiagency Program in Support of the Great Lakes Restoration Initiative. <i>Environmental Practice</i> , 2013, 15, 409-426.	0.3	41
18	Push-through direct injection NMR: an optimized automation method applied to metabolomics. <i>Analyst</i> , 2012, 137, 2226.	3.5	33

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19	Metabolite Profiling and a Transcriptional Activation Assay Provide Direct Evidence of Androgen Receptor Antagonism by Bisphenol A in Fish. <i>Environmental Science &amp; Technology</i> , 2012, 46, 9673-9680.	10.0	42
20	Fishy Aroma of Social Status: Urinary Chemo-Signalling of Territoriality in Male Fathead Minnows ( <i>Pimephales promelas</i> ). <i>PLoS ONE</i> , 2012, 7, e46579.	2.5	27
21	Use of gene expression, biochemical and metabolite profiles to enhance exposure and effects assessment of the model androgen 17 $\beta$ -trenbolone in fish. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 319-329.	4.3	44
22	Impacts of an Anti-Androgen and an Androgen/Anti-Androgen Mixture on the Metabolite Profile of Male Fathead Minnow Urine. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6881-6886.	10.0	43
23	A Computational Model of the Hypothalamic-Pituitary-Gonadal Axis in Male Fathead Minnows Exposed to 17 $\beta$ -Ethinylestradiol and 17 $\beta$ -Estradiol. <i>Toxicological Sciences</i> , 2009, 109, 180-192.	3.1	37
24	A direct cell quenching method for cell-culture based metabolomics. <i>Metabolomics</i> , 2009, 5, 199-208.	3.0	188
25	Profiling lipid metabolites yields unique information on sex- and time-dependent responses of fathead minnows ( <i>Pimephales promelas</i> ) exposed to 17 $\beta$ -ethynylestradiol. <i>Metabolomics</i> , 2009, 5, 22-32.	3.0	60
26	Endocrine disrupting chemicals in fish: Developing exposure indicators and predictive models of effects based on mechanism of action. <i>Aquatic Toxicology</i> , 2009, 92, 168-178.	4.0	234
27	International NMR-Based Environmental Metabolomics Intercomparison Exercise. <i>Environmental Science &amp; Technology</i> , 2009, 43, 219-225.	10.0	139
28	Spectral relative standard deviation: a practical benchmark in metabolomics. <i>Analyst</i> , 2009, 134, 478-485.	3.5	163
29	Investigating Compensation and Recovery of Fathead Minnow ( <i>Pimephales promelas</i> ) Exposed to 17 $\beta$ -Ethinylestradiol with Metabolite Profiling. <i>Environmental Science &amp; Technology</i> , 2008, 42, 4188-4194.	10.0	89
30	Chlorpyrifos Transformation by Aqueous Chlorine in the Presence of Bromide and Natural Organic Matter. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 1328-1335.	5.2	19
31	NMR analysis of male fathead minnow urinary metabolites: A potential approach for studying impacts of chemical exposures. <i>Aquatic Toxicology</i> , 2007, 85, 104-112.	4.0	61
32	Raman Spectroscopy-Based Metabolomics for Differentiating Exposures to Triazole Fungicides Using Rat Urine. <i>Analytical Chemistry</i> , 2007, 79, 7324-7332.	6.5	22
33	Degradation of Chlorpyrifos in Aqueous Chlorine Solutions: Pathways, Kinetics, and Modeling. <i>Environmental Science &amp; Technology</i> , 2006, 40, 546-551.	10.0	93
34	Monitoring the Speciation of Aqueous Free Chlorine from pH 1 to 12 with Raman Spectroscopy to Determine the Identity of the Potent Low-pH Oxidant. <i>Applied Spectroscopy</i> , 2006, 60, 764-772.	2.2	56
35	Analysis of hydroponic fertilizer matrixes for perchlorate: comparison of analytical techniques. <i>Analyst</i> , 2003, 128, 88-97.	3.5	38
36	The role of Raman spectroscopy in the analytical chemistry of potable water This paper has been reviewed in accordance with the US Environmental Protection Agency's peer and administrative review policies and approved for publication. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.. <i>Journal of Environmental Monitoring</i> , 2002, 4, 27-34.	2.1	15

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37	Comparison and evaluation of laboratory performance on a method for the determination of perchlorate in fertilizers. <i>Journal of Environmental Monitoring</i> , 2001, 3, 454-462.	2.1	10
38	Optimization of Raman Spectroscopy for Speciation of Organics in Water. <i>Applied Spectroscopy</i> , 2001, 55, 750-766.	2.2	8
39	Raman Spectroscopic Analysis of Fertilizers and Plant Tissue for Perchlorate. <i>Applied Spectroscopy</i> , 2001, 55, 967-983.	2.2	25
40	Prediction of Molecular Properties with Mid-Infrared Spectra and Interferograms. <i>Applied Spectroscopy</i> , 2001, 55, 1067-1078.	2.2	1
41	Identification of drinking water contaminants in the course of a childhood cancer investigation in Toms River, New Jersey. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 1999, 9, 200-216.	3.9	11
42	Identification of New Ozone Disinfection Byproducts in Drinking Water. <i>Environmental Science &amp; Technology</i> , 1999, 33, 3368-3377.	10.0	227
43	Identification of New Drinking Water Disinfection Byproducts Formed in the Presence of Bromide. <i>Environmental Science &amp; Technology</i> , 1999, 33, 3378-3383.	10.0	150
44	IDENTIFICATION OF DRINKING WATER DISINFECTION BY-PRODUCTS FROM OZONE, CHLORINE DIOXIDE, CHLORAMINE, AND CHLORINE. , 1999, , 46-53.		0
45	A Method for the Measurement of Site-Specific Tautomeric and Zwitterionic Microspecies Equilibrium Constants. <i>Analytical Chemistry</i> , 1997, 69, 1642-1650.	6.5	20
46	Comparison of using mid-infrared spectra versus their Fourier transforms for the prediction of properties of organic chemicals. <i>Vibrational Spectroscopy</i> , 1997, 15, 113-129.	2.2	1
47	Predicting environmental fate parameters with infrared spectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 1997, 16, 24-36.	11.4	9
48	Identification of TiO <sub>2</sub> /UV Disinfection Byproducts in Drinking Water. <i>Environmental Science &amp; Technology</i> , 1996, 30, 3327-3334.	10.0	101
49	Multispectral Identification of Chlorine Dioxide Disinfection Byproducts in Drinking Water. <i>Environmental Science &amp; Technology</i> , 1994, 28, 592-599.	10.0	103
50	Identification of Bromohydrins in Ozonated Waters. <i>Applied Spectroscopy</i> , 1994, 48, 1181-1192.	2.2	11
51	Use of Rough Sets and Spectral Data for Building Predictive Models of Reaction Rate Constants. <i>Applied Spectroscopy</i> , 1994, 48, 1379-1386.	2.2	10
52	Ozonation byproducts: identification of bromohydrins from the ozonation of natural waters with enhanced bromide levels. <i>Environmental Science &amp; Technology</i> , 1992, 26, 1658-1662.	10.0	45
53	Infrared spectroscopy-based property-reactivity correlations for predicting environmental fate of organic chemicals. <i>Environmental Toxicology and Chemistry</i> , 1992, 11, 981-991.	4.3	3
54	Application of multispectral techniques to the precise identification of aldehydes in the environment. <i>Environmental Toxicology and Chemistry</i> , 1991, 10, 991-997.	4.3	3

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55	Multispectral Identiftcation of Alkyl and Chloroalkyl Phosphates from an Industrial Effluent. Journal of the American Society for Mass Spectrometry, 1991, 2, 419-426.	2.8	11
56	Ester hydrolysis rate constant prediction from infrared interferograms. Environmental Science & Technology, 1990, 24, 1671-1676.	10.0	13
57	Identification of bis(2-chloroethyl) ether hydrolysis products by direct aqueous injection GC/FT-IR. Journal of High Resolution Chromatography, 1989, 12, 693-696.	1.4	5