Timothy W Collette

List of Publications by Year
in descending order

57	2,869	201674 27	168389 53
papers	citations	h-index	g-index

58	58	58	3439
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Endocrine disrupting chemicals in fish: Developing exposure indicators and predictive models of effects based on mechanism of action. Aquatic Toxicology, 2009, 92, 168-178.	4.0	234
2	Identification of New Ozone Disinfection Byproducts in Drinking Water. Environmental Science & Technology, 1999, 33, 3368-3377.	10.0	227
3	A direct cell quenching method for cell-culture based metabolomics. Metabolomics, 2009, 5, 199-208.	3.0	188
4	Spectral relative standard deviation: a practical benchmark in metabolomics. Analyst, The, 2009, 134, 478-485.	3.5	163
5	The Role of Omics in the Application of Adverse Outcome Pathways for Chemical Risk Assessment. Toxicological Sciences, 2017, 158, 252-262.	3.1	161
6	Identification of New Drinking Water Disinfection Byproducts Formed in the Presence of Bromide. Environmental Science & Technology, 1999, 33, 3378-3383.	10.0	150
7	International NMR-Based Environmental Metabolomics Intercomparison Exercise. Environmental Science & Technology, 2009, 43, 219-225.	10.0	139
8	Multispectral Identification of Chlorine Dioxide Disinfection Byproducts in Drinking Water. Environmental Science & Technology, 1994, 28, 592-599.	10.0	103
9	Identification of TiO2/UV Disinfection Byproducts in Drinking Water. Environmental Science & Technology, 1996, 30, 3327-3334.	10.0	101
10	Degradation of Chlorpyrifos in Aqueous Chlorine Solutions:â€‰ Pathways, Kinetics, and Modeling. Environmental Science & Technology, 2006, 40, 546-551.	10.0	93
11	Investigating Compensation and Recovery of Fathead Minnow (Pimephales promelas) Exposed to 17Î±-Ethynylestradiol with Metabolite Profiling. Environmental Science & Technology, 2008, 42, 4188-4194.	10.0	89
12	Metabolite Profiling of Fish Skin Mucus: A Novel Approach for Minimally-Invasive Environmental Exposure Monitoring and Surveillance. Environmental Science & Technology, 2015, 49, 3091-3100.	10.0	76
13	NMR analysis of male fathead minnow urinary metabolites: A potential approach for studying impacts of chemical exposures. Aquatic Toxicology, 2007, 85, 104-112.	4.0	61
14	Profiling lipid metabolites yields unique information on sex- and time-dependent responses of fathead minnows (PimephalesÂpromelas) exposed to 17Î±-ethynylestradiol. Metabolomics, 2009, 5, 22-32.	3.0	60
15	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. Applied Spectroscopy, 2006, 60, 764-772.	2.2	56
16	Ozonation byproducts: identification of bromohydrins from the ozonation of natural waters with enhanced bromide levels. Environmental Science & Technology, 1992, 26, 1658-1662.	10.0	45
17	Use of gene expression, biochemical and metabolite profiles to enhance exposure and effects assessment of the model androgen 17Î²â€trenbolone in fish. Environmental Toxicology and Chemistry, 2011, 30, 319-329.	4.3	44
18	Impacts of an Anti-Androgen and an Androgen/Anti-Androgen Mixture on the Metabolite Profile of Male Fathead Minnow Urine. Environmental Science & Technology, 2010, 44, 6881-6886.	10.0	43

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19	Metabolite Profiling and a Transcriptional Activation Assay Provide Direct Evidence of Androgen Receptor Antagonism by Bisphenol A in Fish. Environmental Science & Technology, 2012, 46, 9673-9680.	10.0	42
20	Environmental Reviews and Case Studies: Biological Effectsâ€“Based Tools for Monitoring Impacted Surface Waters in the Great Lakes: A Multiagency Program in Support of the Great Lakes Restoration Initiative. Environmental Practice, 2013, 15, 409-426.	0.3	41
21	Analysis of hydroponic fertilizer matrixes for perchlorate: comparison of analytical techniques. Analyst, The, 2003, 128, 88-97.	3.5	38
22	A Computational Model of the Hypothalamic-Pituitary-Gonadal Axis in Male Fathead Minnows Exposed to 17Î±-Ethinylestradiol and 17Î²-Estradiol. Toxicological Sciences, 2009, 109, 180-192.	3.1	37
23	Linking fieldâ€based metabolomics and chemical analyses to prioritize contaminants of emerging concern in the Great Lakes basin. Environmental Toxicology and Chemistry, 2016, 35, 2493-2502.	4.3	36
24	Push-through direct injection NMR: an optimized automation method applied to metabolomics. Analyst, The, 2012, 137, 2226.	3.5	33
25	Assessing the impact of wastewater treatment plant effluent on downstream drinking water-source quality using a zebrafish (Danio Rerio) liver cell-based metabolomics approach. Water Research, 2018, 145, 198-209.	11.3	29
26	Metabolomics forin SituEnvironmental Monitoring of Surface Waters Impacted by Contaminants from Both Point and Nonpoint Sources. Environmental Science & Technology, 2014, 48, 140115140646006.	10.0	28
27	Fishy Aroma of Social Status: Urinary Chemo-Signalling of Territoriality in Male Fathead Minnows (Pimephales promelas). PLoS ONE, 2012, 7, e46579.	2.5	27
28	Raman Spectroscopic Analysis of Fertilizers and Plant Tissue for Perchlorate. Applied Spectroscopy, 2001, 55, 967-983.	2.2	25
29	The Ecoâ€Exposome Concept: Supporting an Integrated Assessment of Mixtures of Environmental Chemicals. Environmental Toxicology and Chemistry, 2022, 41, 30-45.	4.3	25
30	Impacts of 17Î±-ethynylestradiol exposure on metabolite profiles of zebrafish (Danio rerio) liver cells. Aquatic Toxicology, 2013, 130-131, 184-191.	4.0	24
31	Raman Spectroscopy-Based Metabolomics for Differentiating Exposures to Triazole Fungicides Using Rat Urine. Analytical Chemistry, 2007, 79, 7324-7332.	6.5	22
32	Highâ€resolution mass spectrometry of skin mucus for monitoring physiological impacts and contaminant biotransformation products in fathead minnows exposed to wastewater effluent. Environmental Toxicology and Chemistry, 2018, 37, 788-796.	4.3	22
33	Metabolomics for informing adverse outcome pathways: Androgen receptor activation and the pharmaceutical spironolactone. Aquatic Toxicology, 2017, 184, 103-115.	4.0	21
34	A Method for the Measurement of Site-Specific Tautomeric and Zwitterionic Microspecies Equilibrium Constants. Analytical Chemistry, 1997, 69, 1642-1650.	6.5	20
35	Chlorpyrifos Transformation by Aqueous Chlorine in the Presence of Bromide and Natural Organic Matter. Journal of Agricultural and Food Chemistry, 2008, 56, 1328-1335.	5.2	19
36	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. Environmental Pollution, 2018, 239, 706-713.	7.5	19

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37	Field-Based Approach for Assessing the Impact of Treated Pulp and Paper Mill Effluent on Endogenous Metabolites of Fathead Minnows (Pimephales promelas). Environmental Science & Technology, 2013, 47, 130830150520002.	10.0	17
38	Integrated approach to explore the mechanisms of aromatase inhibition and recovery in fathead minnows (Pimephales promelas). General and Comparative Endocrinology, 2014, 203, 193-202.	1.8	17
39	The role of Raman spectroscopy in the analytical chemistry of potable waterThis 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.. Journal of Environmental Monitoring, 2002, 4, 27-34.	2.1	15
40	Derivation and Evaluation of Putative Adverse Outcome Pathways for the Effects of Cyclooxygenase Inhibitors on Reproductive Processes in Female Fish. Toxicological Sciences, 2017, 156, 344-361.	3.1	14
41	Ester hydrolysis rate constant prediction from infrared interferograms. Environmental Science & Technology, 1990, 24, 1671-1676.	10.0	13
42	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
43	Identification of Bromohydrins in Ozonated Waters. Applied Spectroscopy, 1994, 48, 1181-1192.	2.2	11
44	Identification of drinking water contaminants in the course of a childhood cancer investigation in Toms River, New Jersey. Journal of Exposure Science and Environmental Epidemiology, 1999, 9, 200-216.	3.9	11
45	Use of Rough Sets and Spectral Data for Building Predictive Models of Reaction Rate Constants. Applied Spectroscopy, 1994, 48, 1379-1386.	2.2	10
46	Comparison and evaluation of laboratory performance on a method for the determination of perchlorate in fertilizers. Journal of Environmental Monitoring, 2001, 3, 454-462.	2.1	10
47	Predicting environmental fate parameters with infrared spectroscopy. TrAC - Trends in Analytical Chemistry, 1997, 16, 24-36.	11.4	9
48	Untargeted Lipidomics for Determining Cellular and Subcellular Responses in Zebrafish (Danio rerio) Liver Cells Following Exposure to Complex Mixtures in U.S. Streams. Environmental Science & Technology, 2021, 55, 8180-8190.	10.0	9
49	Optimization of Raman Spectroscopy for Speciation of Organics in Water. Applied Spectroscopy, 2001, 55, 750-766.	2.2	8
50	Cell-Based Metabolomics for Untargeted Screening and Prioritization of Vertebrate-Active Stressors in Streams Across the United States. Environmental Science & Technology, 2019, 53, 9232-9240.	10.0	8
51	Metabolite profiles of repeatedly sampled urine from male fathead minnows (Pimephales promelas) contain unique lipid signatures following exposure to anti-androgens. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2016, 19, 190-198.	1.0	7
52	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
53	Application of multispectral techniques to the precise identification of aldehydes in the environment. Environmental Toxicology and Chemistry, 1991, 10, 991-997.	4.3	3
54	Infrared spectroscopyâ€based propertyâ€reactivity correlations for predicting environmental fate of organic chemicals. Environmental Toxicology and Chemistry, 1992, 11, 981-991.	4.3	3

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55	Comparison of using mid-infrared spectra versus their Fourier transforms for the prediction of properties of organic chemicals. Vibrational Spectroscopy, 1997, 15, 113-129.	2.2	1
56	Prediction of Molecular Properties with Mid-Infrared Spectra and Interferograms. Applied Spectroscopy, 2001, 55, 1067-1078.	2.2	1
57	IDENTIFICATION OF DRINKING WATER DISINFECTION BY-PRODUCTS FROM OZONE, CHLORINE DIOXIDE, CHLORAMINE, AND CHLORINE. , 1999, , 46-53.		0