Ugo Bussy

List of Publications by Year
in descending order

52 papers	865 citations	516710 16 h-index	526287 27 g-index
54 all docs	54 docs citations	54 times ranked	845 citing authors

#	Article	IF	Citations
1	In Situ Ultrafast 2D NMR Spectroelectrochemistry for Real-Time Monitoring of Redox Reactions. Analytical Chemistry, 2015, 87, 372-375.	6.5	55
2	Isotopic finger-printing of active pharmaceutical ingredients by 13C NMR and polarization transfer techniques as a tool to fight against counterfeiting. Talanta, 2011, 85, 1909-1914.	5.5	51
3	Advances in the Electrochemical Simulation of Oxidation Reactions Mediated by Cytochrome P450. Chemical Research in Toxicology, 2014, 27, 1652-1668.	3.3	50
4	In situ NMR spectroelectrochemistry for the structure elucidation of unstable intermediate metabolites. Analytical and Bioanalytical Chemistry, 2013, 405, 5817-5824.	3.7	39
5	NMR spectrometry isotopic fingerprinting: A tool for the manufacturer for tracking Active Pharmaceutical Ingredients from starting materials to final medicines. European Journal of Pharmaceutical Sciences, 2013, 48, 464-473.	4.0	39
6	Review of advances in coupling electrochemistry and liquid state NMR. Talanta, 2015, 136, 155-160.	5.5	39
7	Electrochemical oxidation behavior of Acebutolol and identification of intermediate species by liquid chromatography and mass spectrometry. Electrochimica Acta, 2012, 69, 351-357.	5.2	35
8	Electrochemistry-mass spectrometry to study reactive drug metabolites and CYP450 simulations. TrAC - Trends in Analytical Chemistry, 2015, 70, 67-73.	11.4	33
9	Recent Advances and Applications of Experimental Technologies in Marine Natural Product Research. Marine Drugs, 2015, 13, 2694-2713.	4.6	31
10	Understanding the degradation of electrochemically-generated reactive drug metabolites by quantitative NMR. Talanta, 2013, 116, 554-558.	5.5	28
11	Phase I and phase II reductive metabolism simulation of nitro aromatic xenobiotics with electrochemistry coupled with high resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2014, 406, 7253-7260.	3.7	28
12	Acebutolol and alprenolol metabolism predictions: comparative study of electrochemical and cytochrome P450-catalyzed reactions using liquid chromatography coupled to high-resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2013, 405, 6077-6085.	3.7	26
13	(+)- and (â^')-Petromyroxols: Antipodal Tetrahydrofurandiols from Larval Sea Lamprey (Petromyzon) Tj ETQq1 1 0.784314 rgBT /Overlock	4.6	25
14	Metabolism of a sea lamprey pesticide by fish liver enzymes part A: identification and synthesis of TFM metabolites. Analytical and Bioanalytical Chemistry, 2018, 410, 1749-1761.	3.7	23
15	Metabolism of a sea lamprey pesticide by fish liver enzymes part B: method development and application in quantification of TFM metabolites formed in vivo. Analytical and Bioanalytical Chemistry, 2018, 410, 1763-1774.	3.7	23
16	Simulation of the environmental degradation of diuron (herbicide) using electrochemistry coupled to high resolution mass spectrometry. Electrochimica Acta, 2020, 352, 136485.	5.2	18
17	Voltammetry coupled to mass spectrometry in the presence of isotope 18O labeled water for the prediction of oxidative transformation pathways of activated aromatic ethers: Acebutolol. Analytica Chimica Acta, 2013, 762, 39-46.	5.4	17
18	Sea lamprey cardiac mitochondrial bioenergetics after exposure to TFM and its metabolites. Aquatic Toxicology, 2020, 219, 105380.	4.0	17

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19	Quantification of 15 bile acids in lake charr feces by ultra-high performance liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 1001, 27-34.	2.3	16
20	High-sensitivity determination of estrogens in fish plasma using chemical derivatization upstream UHPLCâ€“MSMS. Steroids, 2017, 123, 13-19.	1.8	16
21	Increased pheromone signaling by small male sea lamprey has distinct effects on female mate search and courtship. Behavioral Ecology and Sociobiology, 2017, 71, 1.	1.4	15
22	Reliable, accessible and transferable method for the quantification of flavanols and procyanidins in foodstuffs and dietary supplements. Food and Function, 2020, 11, 131-138.	4.6	15
23	Single-Laboratory Validation for the Determination of Cocoa Flavanols and Procyanidins (by Degree) Tj ETQq1 1 0.784314 rgBT /Overl Coupled with Fluorescence Detection: First Action 2020.05. Journal of AOAC INTERNATIONAL, 2021, 104, 413-421.	1.5	15
24	A Quantitative Assay for Reductive Metabolism of a Pesticide in Fish Using Electrochemistry Coupled with Liquid Chromatography Tandem Mass Spectrometry. Environmental Science & Technology, 2015, 49, 4450-4457.	10.0	14
25	A validated LCâ€“MS/MS method for thyroid hormone determination in sea lamprey (Petromyzon) Tj ETQq1 1 0.784314 rgBT /Overlo Biomedical and Life Sciences, 2017, 1041-1042, 77-84.	2.3	14
26	High-stress rearing temperature in Acipenser fulvescens affects physiology, behaviour and predation rates. Animal Behaviour, 2019, 157, 153-165.	1.9	14
27	Using electrochemistry coupled to high resolution mass spectrometry for the simulation of the environmental degradation of the recalcitrant fungicide carbendazim. Talanta, 2021, 221, 121448.	5.5	14
28	Application of liquid chromatography-tandem mass spectrometry in quantitative bioanalyses of organic molecules in aquatic environment and organisms. Environmental Science and Pollution Research, 2016, 23, 9459-9479.	5.3	13
29	Ultra-performance liquid chromatography tandem mass spectrometry for simultaneous determination of natural steroid hormones in sea lamprey (Petromyzon marinus) plasma and tissues. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1009-1010, 170-178.	2.3	11
30	Chemical derivatization of neurosteroids for their trace determination in sea lamprey by UPLC-MS/MS. Talanta, 2016, 149, 326-334.	5.5	11
31	Phylogenetic distribution of a male pheromone that may exploit a nonsexual preference in lampreys. Journal of Evolutionary Biology, 2017, 30, 2244-2254.	1.7	11
32	Intra- and Interspecific Variation in Production of Bile Acids That Act as Sex Pheromones in Lampreys. Physiological and Biochemical Zoology, 2019, 92, 463-472.	1.5	10
33	Temporal constraints on the potential role of fry odors as cues of past reproductive success for spawning lake trout. Ecology and Evolution, 2017, 7, 10196-10206.	1.9	9
34	iso-Petromyroxols: Novel Dihydroxylated Tetrahydrofuran Enantiomers from Sea Lamprey (Petromyzon marinus). Molecules, 2015, 20, 5215-5222.	3.8	8
35	Evidence that male sea lamprey increase pheromone release after perceiving a competitor. Journal of Experimental Biology, 2020, 223, .	1.7	8
36	Hsp90 and hepatobiliary transformation during sea lamprey metamorphosis. BMC Developmental Biology, 2015, 15, 47.	2.1	7

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37	Next-generation lampricides: a three-stage process to develop improved control tools for invasive sea lamprey. Canadian Journal of Fisheries and Aquatic Sciences, 2022, 79, 692-702.	1.4	7
38	Simultaneous determination of gonadotropin-inhibitory and gonadotropin-releasing hormones using ultra-high performance liquid chromatography electrospray ionization tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2015, 407, 497-507.	3.7	6
39	Determination of cortisol in lake sturgeon (Acipenser fulvescens) eggs by liquid chromatography tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1040, 162-168.	2.3	6
40	TGFâ€Î² Signaling Plays a Pivotal Role During Developmental Biliary Atresia in Sea Lamprey (Petromyzon) Tj ETQq0 0 0 rgBT /Overlock 10	4.3	6
41	Evolution of cocoa flavanol analytics: impact on reporting and cross-study comparison. Food and Function, 2021, 12, 3433-3442.	4.6	6
42	Sex-dependent pheromonal effects on steroid hormone levels in sea lampreys (Petromyzon marinus). General and Comparative Endocrinology, 2020, 299, 113608.	1.8	5
43	Unexpected benzimidazole ring formation from a quinoneimide species in the presence of ammonium acetate as supporting electrolyte used in the coupling of electrochemistry with mass spectrometry. Rapid Communications in Mass Spectrometry, 2015, 29, 456-460.	1.5	4
44	Electrochemistry-coupled to liquid chromatography-mass spectrometry-density functional theory as a new tool to mimic the environmental degradation of selected phenylurea herbicides. Environmental Sciences: Processes and Impacts, 2021, 23, 1600-1611.	3.5	4
45	Determination of Cocoa Flavanols and Procyanidins (by Degree of Polymerization DP1-7) in Cocoa-Based Products by Hydrophilic Interaction Chromatography Coupled With Fluorescence Detection: Collaborative Study. Journal of AOAC INTERNATIONAL, 2022, 105, 1060-1068.	1.5	4
46	Waterborne pheromones modulate gonadotropin-inhibitory hormone levels in sea lamprey (Petromyzon marinus). General and Comparative Endocrinology, 2020, 288, 113358.	1.8	3
47	American eels produce and release bile acid profiles that vary across life stage. Journal of Fish Biology, 2020, 96, 1024-1033.	1.6	3
48	Development and validation of HPLC-MS2 methodology for the accurate determination of C4â€“C8 B-type flavanols and procyanidins. Scientific Reports, 2021, 11, 14761.	3.3	3
49	Quantification of Oxidized and Unsaturated Bile Alcohols in Sea Lamprey Tissues by Ultra-High Performance Liquid Chromatography-Tandem Mass Spectrometry. Molecules, 2016, 21, 1119.	3.8	2
50	Bile acid production is life-stage and sex dependent and affected by primer pheromones in the sea lamprey. Journal of Experimental Biology, 2021, 224, .	1.7	2
51	Diel Patterns of Pheromone Release by Male Sea Lamprey. Integrative and Comparative Biology, 2021, , .	2.0	1
52	In-line formation and identification of toxic reductive metabolites of aristolochic acid using electrochemistry mass spectrometry coupling. Analytical and Bioanalytical Chemistry, 2022, 414, 2363-2370.	3.7	1