

Mark R Viant

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/430007/publications.pdf>

Version: 2024-02-01

216
papers

17,915
citations

13068

68
h-index

15218

126
g-index

226
all docs

226
docs citations

226
times ranked

21152
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially Mapping the Baseline and Bisphenol-A Exposed <i>Daphnia magna</i> Lipidome Using Desorption Electrospray Ionization Mass Spectrometry. <i>Metabolites</i> , 2022, 12, 33.	1.3	3
2	Integrating in vitro metabolomics with a 96-well high-throughput screening platform. <i>Metabolomics</i> , 2022, 18, 11.	1.4	15
3	Automated Sample Preparation and Data Collection Workflow for High-Throughput In Vitro Metabolomics. <i>Metabolites</i> , 2022, 12, 52.	1.3	6
4	Knowledge-Driven Approaches to Create the MTox700+ Metabolite Panel for Predicting Toxicity. <i>Toxicological Sciences</i> , 2022, 186, 208-220.	1.4	7
5	Microbiome function predicts amphibian chytridiomycosis disease dynamics. <i>Microbiome</i> , 2022, 10, 44.	4.9	12
6	The metabolic response of marine copepods (<i>Calanus</i> spp.) to food deprivation, end-of-century ocean acidification, and global warming scenarios. , 2022, , 153-166.		0
7	Space and patchiness affects diversity-function relationships in fungal decay communities. <i>ISME Journal</i> , 2021, 15, 720-731.	4.4	2
8	Environmentally Relevant Iron Oxide Nanoparticles Produce Limited Acute Pulmonary Effects in Rats at Realistic Exposure Levels. <i>International Journal of Molecular Sciences</i> , 2021, 22, 556.	1.8	13
9	Species-Specific Variations in the Metabolomic Profiles of <i>Acropora hyacinthus</i> and <i>Acropora millepora</i> Mask Acute Temperature Stress Effects in Adult Coral Colonies. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	6
10	Resurrecting the metabolome: Rapid evolution magnifies the metabolomic plasticity to predation in a natural <i>Daphnia</i> population. <i>Molecular Ecology</i> , 2021, 30, 2285-2297.	2.0	6
11	Acoustic Mist Ionization Mass Spectrometry for Ultrahigh-Throughput Metabolomics Screening. <i>Analytical Chemistry</i> , 2021, 93, 9258-9266.	3.2	11
12	Modeling the metabolic profile of <i>Mytilus edulis</i> reveals molecular signatures linked to gonadal development, sex and environmental site. <i>Scientific Reports</i> , 2021, 11, 12882.	1.6	3
13	An Extensive Metabolomics Workflow to Discover Cardiotoxin-Induced Molecular Perturbations in Microtissues. <i>Metabolites</i> , 2021, 11, 644.	1.3	2
14	Progress towards an OECD reporting framework for transcriptomics and metabolomics in regulatory toxicology. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 125, 105020.	1.3	46
15	Energy Starvation in <i>Daphnia magna</i> from Exposure to a Lithium Cobalt Oxide Nanomaterial. <i>Chemical Research in Toxicology</i> , 2021, 34, 2287-2297.	1.7	9
16	An integrated host-microbiome response to atrazine exposure mediates toxicity in <i>Drosophila</i> . <i>Communications Biology</i> , 2021, 4, 1324.	2.0	10
17	Vision of a near future: Bridging the human health-environment divide. Toward an integrated strategy to understand mechanisms across species for chemical safety assessment. <i>Toxicology in Vitro</i> , 2020, 62, 104692.	1.1	33
18	New ideas for non-animal approaches to predict repeated-dose systemic toxicity: Report from an EPAA Blue Sky Workshop. <i>Regulatory Toxicology and Pharmacology</i> , 2020, 114, 104668.	1.3	33

#	ARTICLE	IF	CITATIONS
19	Characterisation of the dynamic nature of lipids throughout the lifespan of genetically identical female and male <i>Daphnia magna</i> . <i>Scientific Reports</i> , 2020, 10, 5576.	1.6	4
20	Use cases, best practice and reporting standards for metabolomics in regulatory toxicology. <i>Nature Communications</i> , 2019, 10, 3041.	5.8	131
21	Multiple metabolic pathways are predictive of ricin intoxication in a rat model. <i>Metabolomics</i> , 2019, 15, 102.	1.4	8
22	International Ring Trial of a High Resolution Targeted Metabolomics and Lipidomics Platform for Serum and Plasma Analysis. <i>Analytical Chemistry</i> , 2019, 91, 14407-14416.	3.2	66
23	Pulmonary toxicity of inhaled nano-sized cerium oxide aerosols in Sprague-Dawley rats. <i>Nanotoxicology</i> , 2019, 13, 733-750.	1.6	27
24	Metabolomic method to detect a metabolite corona on amino-functionalized polystyrene nanoparticles. <i>Nanotoxicology</i> , 2019, 13, 783-794.	1.6	24
25	Improved Algal Toxicity Test System for Robust Omics-Driven Mode-of-Action Discovery in <i>Chlamydomonas reinhardtii</i> . <i>Metabolites</i> , 2019, 9, 94.	1.3	4
26	Confidence in metabolite identification dictates the applicability of metabolomics to regulatory toxicology. <i>Current Opinion in Toxicology</i> , 2019, 16, 32-38.	2.6	17
27	PhenoMeNal: processing and analysis of metabolomics data in the cloud. <i>GigaScience</i> , 2019, 8, .	3.3	60
28	Terahertz VRT spectroscopy of the water hexamer-d12 prism: Dramatic enhancement of bifurcation tunneling upon librational excitation. <i>Journal of Chemical Physics</i> , 2018, 148, .	1.2	9
29	Comparison of modified Matyash method to conventional solvent systems for polar metabolite and lipid extractions. <i>Analytica Chimica Acta</i> , 2018, 1037, 301-315.	2.6	75
30	Use of 5-azacytidine in a proof-of-concept study to evaluate the impact of pre-natal and post-natal exposures, as well as within generation persistent DNA methylation changes in <i>Daphnia</i> . <i>Ecotoxicology</i> , 2018, 27, 556-568.	1.1	26
31	nmrML: A Community Supported Open Data Standard for the Description, Storage, and Exchange of NMR Data. <i>Analytical Chemistry</i> , 2018, 90, 649-656.	3.2	50
32	Metabolomics Discovers Early-Response Metabolic Biomarkers that Can Predict Chronic Reproductive Fitness in Individual <i>Daphnia magna</i> . <i>Metabolites</i> , 2018, 8, 42.	1.3	37
33	Quantitative Lipoprotein Subclass and Low Molecular Weight Metabolite Analysis in Human Serum and Plasma by ¹ H NMR Spectroscopy in a Multilaboratory Trial. <i>Analytical Chemistry</i> , 2018, 90, 11962-11971.	3.2	165
34	How omics technologies can enhance chemical safety regulation: perspectives from academia, government, and industry. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1252-1259.	2.2	12
35	Multi-omics approaches confirm metal ions mediate the main toxicological pathways of metal-bearing nanoparticles in lung epithelial A549 cells. <i>Environmental Science: Nano</i> , 2018, 5, 1506-1517.	2.2	27
36	Terahertz VRT Spectroscopy of the Water Hexamer-h12 Cage: Dramatic Libration-Induced Enhancement of Hydrogen Bond Tunneling Dynamics. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7421-7426.	1.1	6

#	ARTICLE	IF	CITATIONS
37	Biodiversity in marine invertebrate responses to acute warming revealed by a comparative multi-omics approach. <i>Global Change Biology</i> , 2017, 23, 318-330.	4.2	80
38	Computational tools and workflows in metabolomics: An international survey highlights the opportunity for harmonisation through Galaxy. <i>Metabolomics</i> , 2017, 13, 12.	1.4	69
39	Regional adaptation defines sensitivity to future ocean acidification. <i>Nature Communications</i> , 2017, 8, 13994.	5.8	78
40	Hydrogen bond breaking dynamics in the water pentamer: Terahertz VRT spectroscopy of a 20 μm libration. <i>Journal of Chemical Physics</i> , 2017, 146, 014306.	1.2	15
41	A complete workflow for high-resolution spectral-stitching nano-electrospray direct-infusion mass-spectrometry-based metabolomics and lipidomics. <i>Nature Protocols</i> , 2017, 12, 310-328.	5.5	121
42	How close are we to complete annotation of metabolomes?. <i>Current Opinion in Chemical Biology</i> , 2017, 36, 64-69.	2.8	228
43	Miniaturising acute toxicity and feeding rate measurements in <i>Daphnia magna</i> . <i>Ecotoxicology and Environmental Safety</i> , 2017, 139, 352-357.	2.9	20
44	msPurity: Automated Evaluation of Precursor Ion Purity for Mass Spectrometry-Based Fragmentation in Metabolomics. <i>Analytical Chemistry</i> , 2017, 89, 2432-2439.	3.2	40
45	Quality assurance and quality control processes: summary of a metabolomics community questionnaire. <i>Metabolomics</i> , 2017, 13, 1.	1.4	53
46	mzML2ISA & nmrML2ISA: generating enriched ISA-Tab metadata files from metabolomics XML data. <i>Bioinformatics</i> , 2017, 33, 2598-2600.	1.8	12
47	Automated development of an LC-MS/MS method for measuring multiple vitamin D metabolites using MUSCLE software. <i>Analytical Methods</i> , 2017, 9, 2723-2731.	1.3	8
48	Aromatic metabolites from the coelomic fluid of <i>Eisenia</i> earthworm species. <i>European Journal of Soil Biology</i> , 2017, 78, 17-19.	1.4	12
49	Automated assembly of species metabolomes through data submission into a public repository. <i>GigaScience</i> , 2017, 6, 1-4.	3.3	9
50	The Role of Omics in the Application of Adverse Outcome Pathways for Chemical Risk Assessment. <i>Toxicological Sciences</i> , 2017, 158, 252-262.	1.4	161
51	Application of Passive Sampling to Characterise the Fish Exometabolome. <i>Metabolites</i> , 2017, 7, 8.	1.3	4
52	Defining the Baseline and Oxidant Perturbed Lipidomic Profiles of <i>Daphnia magna</i> . <i>Metabolites</i> , 2017, 7, 11.	1.3	9
53	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017, 6, 1649.	0.8	19
54	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017, 6, 1649.	0.8	11

#	ARTICLE	IF	CITATIONS
55	Molecular toxicity of cerium oxide nanoparticles to the freshwater alga <i>Chlamydomonas reinhardtii</i> is associated with supra-environmental exposure concentrations. <i>Nanotoxicology</i> , 2016, 10, 1-10.	1.6	70
56	The Time Is Right to Focus on Model Organism Metabolomes. <i>Metabolites</i> , 2016, 6, 8.	1.3	63
57	Optimisation of DNA extraction from the crustacean <i>Daphnia</i> . <i>PeerJ</i> , 2016, 4, e2004.	0.9	26
58	Defensive and adverse energy-related molecular responses precede tris (1, 3-dichloro-2-propyl) phosphate cytotoxicity. <i>Journal of Applied Toxicology</i> , 2016, 36, 649-658.	1.4	6
59	Metabolomics reveals an involvement of pantothenate for male production responding to the short-day stimulus in the water flea, <i>Daphnia pulex</i> . <i>Scientific Reports</i> , 2016, 6, 25125.	1.6	36
60	Non-targeted UHPLC-MS metabolomic data processing methods: a comparative investigation of normalisation, missing value imputation, transformation and scaling. <i>Metabolomics</i> , 2016, 12, 93.	1.4	232
61	Protein Corona Modulates Uptake and Toxicity of Nanoceria <i>via</i> Clathrin-Mediated Endocytosis. <i>Biological Bulletin</i> , 2016, 231, 40-60.	0.7	48
62	Omega-3 and alpha-tocopherol provide more protection against contaminants in novel feeds for Atlantic salmon (<i>Salmo salar</i> L.) than omega-6 and gamma tocopherol. <i>Toxicology Reports</i> , 2016, 3, 211-224.	1.6	20
63	Galaxy-M: a Galaxy workflow for processing and analyzing direct infusion and liquid chromatography mass spectrometry-based metabolomics data. <i>GigaScience</i> , 2016, 5, 10.	3.3	78
64	Metabolomics confirms that dissolved organic carbon mitigates copper toxicity. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 635-644.	2.2	19
65	Data standards can boost metabolomics research, and if there is a will, there is a way. <i>Metabolomics</i> , 2016, 12, 14.	1.4	97
66	Wolbachia Modulates Lipid Metabolism in <i>Aedes albopictus</i> Mosquito Cells. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3109-3120.	1.4	100
67	Predicting chronic copper and nickel reproductive toxicity to <i>Daphnia pulex-pulicaria</i> from whole-animal metabolic profiles. <i>Environmental Pollution</i> , 2016, 212, 325-329.	3.7	29
68	Statistical Correlations between NMR Spectroscopy and Direct Infusion FT-ICR Mass Spectrometry Aid Annotation of Unknowns in Metabolomics. <i>Analytical Chemistry</i> , 2016, 88, 2583-2589.	3.2	25
69	Gene expression and metabolic responses of HepG2/C3A cells exposed to flame retardants and dust extracts at concentrations relevant to indoor environmental exposures. <i>Chemosphere</i> , 2016, 144, 1996-2003.	4.2	13
70	Mass Spectrometry Based Metabolomics Comparison of Liver Grafts from Donors after Circulatory Death (DCD) and Donors after Brain Death (DBD) Used in Human Orthotopic Liver Transplantation. <i>PLoS ONE</i> , 2016, 11, e0165884.	1.1	17
71	The metabolic response of marine copepods to environmental warming and ocean acidification in the absence of food. <i>Scientific Reports</i> , 2015, 5, 13690.	1.6	50
72	Far-infrared VRT spectroscopy of the water dimer: Characterization of the 20 1/4µm out-of-plane librational vibration. <i>Journal of Chemical Physics</i> , 2015, 143, 154306.	1.2	28

#	ARTICLE	IF	CITATIONS
73	Using community metabolomics as a new approach to discriminate marine microbial particulate organic matter in the western English Channel. <i>Progress in Oceanography</i> , 2015, 137, 421-433.	1.5	27
74	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. <i>Metabolomics</i> , 2015, 11, 1587-1597.	1.4	140
75	Transcriptomic and metabolomic approaches to investigate the molecular responses of human cell lines exposed to the flame retardant hexabromocyclododecane (HBCD). <i>Toxicology in Vitro</i> , 2015, 29, 2116-2123.	1.1	15
76	Drug Redeployment to Kill Leukemia and Lymphoma Cells by Disrupting SCD1-Mediated Synthesis of Monounsaturated Fatty Acids. <i>Cancer Research</i> , 2015, 75, 2530-2540.	0.4	48
77	High-resolution mass spectrometry provides novel insights into products of human metabolism of organophosphate and brominated flame retardants. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1871-1883.	1.9	27
78	MUSCLE: automated multi-objective evolutionary optimization of targeted LC-MS/MS analysis. <i>Bioinformatics</i> , 2015, 31, 975-977.	1.8	17
79	The effect of perhexiline on myocardial protection during coronary artery surgery: a two-centre, randomized, double-blind, placebo-controlled trial. <i>European Journal of Cardio-thoracic Surgery</i> , 2015, 47, 464-472.	0.6	6
80	Systems Biology Approach Reveals a Calcium-Dependent Mechanism for Basal Toxicity in <i>Daphnia magna</i> . <i>Environmental Science & Technology</i> , 2015, 49, 11132-11140.	4.6	28
81	Training needs in metabolomics. <i>Metabolomics</i> , 2015, 11, 784-786.	1.4	11
82	Embedding standards in metabolomics: the Metabolomics Society data standards task group. <i>Metabolomics</i> , 2015, 11, 782-783.	1.4	13
83	Robust twin boosting for feature selection from high-dimensional omics data with label noise. <i>Information Sciences</i> , 2015, 291, 1-18.	4.0	32
84	The year in review: highlights of the Metabolomics Society in 2014. <i>Metabolomics</i> , 2014, 10, 1043-1044.	1.4	0
85	Distinguishing between the metabolome and xenobiotic exposome in environmental field samples analysed by direct-infusion mass spectrometry based metabolomics and lipidomics. <i>Metabolomics</i> , 2014, 10, 1050-1058.	1.4	29
86	HAMMER: automated operation of mass frontier to construct <i>in silico</i> mass spectral fragmentation libraries. <i>Bioinformatics</i> , 2014, 30, 581-583.	1.8	36
87	Direct infusion mass spectrometry metabolomics dataset: a benchmark for data processing and quality control. <i>Scientific Data</i> , 2014, 1, 140012.	2.4	134
88	Molecular responses of European flounder (<i>Platichthys flesus</i>) chronically exposed to contaminated estuarine sediments. <i>Chemosphere</i> , 2014, 108, 152-158.	4.2	28
89	¹ H NMR Metabolomics Reveals Contrasting Response by Male and Female Mussels Exposed to Reduced Seawater pH, Increased Temperature, and a Pathogen. <i>Environmental Science & Technology</i> , 2014, 48, 7044-7052.	4.6	91
90	Toxicological effect of single contaminants and contaminant mixtures associated with plant ingredients in novel salmon feeds. <i>Toxicology Letters</i> , 2014, 229, S212-S213.	0.4	0

#	ARTICLE	IF	CITATIONS
91	Toxicological effect of single contaminants and contaminant mixtures associated with plant ingredients in novel salmon feeds. <i>Food and Chemical Toxicology</i> , 2014, 73, 157-174.	1.8	48
92	Modulation of the epigenome in fish carcinogenesis. <i>Toxicology Letters</i> , 2014, 229, S17.	0.4	0
93	The New Data Quality Task Group (DQTG): ensuring high quality data today and in the future. <i>Metabolomics</i> , 2014, 10, 539-540.	1.4	13
94	Supporting the industry sector of the metabolomics community: the remit of the Metabolomics Society's Industry Engagement Task Group. <i>Metabolomics</i> , 2014, 10, 541-542.	1.4	2
95	Metabolomics and proteomics reveal impacts of chemically mediated competition on marine plankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9009-9014.	3.3	112
96	Exo-Metabolome of <i>Pseudovibrio</i> sp. FO-BEG1 Analyzed by Ultra-High Resolution Mass Spectrometry and the Effect of Phosphate Limitation. <i>PLoS ONE</i> , 2014, 9, e96038.	1.1	57
97	Mass spectrometry based environmental metabolomics: a primer and review. <i>Metabolomics</i> , 2013, 9, 144-158.	1.4	124
98	Investigation of Terahertz Vibration's Rotation Tunneling Spectra for the Water Octamer. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6960-6966.	1.1	52
99	Mass appeal: metabolite identification in mass spectrometry-focused untargeted metabolomics. <i>Metabolomics</i> , 2013, 9, 44-66.	1.4	452
100	The critical importance of defined media conditions in <i>Daphnia magna</i> nanotoxicity studies. <i>Toxicology Letters</i> , 2013, 223, 103-108.	0.4	40
101	The Impact of Inflammation on Metabolomic Profiles in Patients With Arthritis. <i>Arthritis and Rheumatism</i> , 2013, 65, 2015-2023.	6.7	140
102	The role of reporting standards for metabolite annotation and identification in metabolomic studies. <i>GigaScience</i> , 2013, 2, 13.	3.3	333
103	The year in review: highlights of the Metabolomics Society in 2013. <i>Metabolomics</i> , 2013, 9, 1129-1131.	1.4	0
104	Effect of perhexiline on myocardial protection during coronary artery surgery: a two-centre randomised double-blind placebo-controlled trial. <i>Lancet, The</i> , 2013, 381, S36.	6.3	1
105	Characterising and correcting batch variation in an automated direct infusion mass spectrometry (DIMS) metabolomics workflow. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5147-5157.	1.9	123
106	Disruption of DNA Methylation via S-Adenosylhomocysteine Is a Key Process in High Incidence Liver Carcinogenesis in Fish. <i>Journal of Proteome Research</i> , 2013, 12, 2895-2904.	1.8	25
107	Anaerobic Metabolism at Thermal Extremes: A Metabolomic Test of the Oxygen Limitation Hypothesis in an Aquatic Insect. <i>Integrative and Comparative Biology</i> , 2013, 53, 609-619.	0.9	86
108	A Stable-Isotope Mass Spectrometry-Based Metabolic Footprinting Approach to Analyze Exudates from Phytoplankton. <i>Marine Drugs</i> , 2013, 11, 4158-4175.	2.2	17

#	ARTICLE	IF	CITATIONS
109	CASMIâ€™The Small Molecule Identification Process from a Birmingham Perspective. <i>Metabolites</i> , 2013, 3, 397-411.	1.3	13
110	Proton NMR-Based Metabolite Analyses of Archived Serial Paired Serum and Urine Samples from Myeloma Patients at Different Stages of Disease Activity Identifies Acetylcarnitine as a Novel Marker of Active Disease. <i>PLoS ONE</i> , 2013, 8, e56422.	1.1	56
111	MaConDa: a publicly accessible mass spectrometry contaminants database. <i>Bioinformatics</i> , 2012, 28, 2856-2857.	1.8	34
112	Fumarate Is Cardioprotective via Activation of the Nrf2 Antioxidant Pathway. <i>Cell Metabolism</i> , 2012, 15, 361-371.	7.2	231
113	Biomarkers of Whale Shark Health: A Metabolomic Approach. <i>PLoS ONE</i> , 2012, 7, e49379.	1.1	47
114	Missing values in mass spectrometry based metabolomics: an undervalued step in the data processing pipeline. <i>Metabolomics</i> , 2012, 8, 161-174.	1.4	169
115	New web forum for Metabolomics Societyâ€™s interest groups. <i>Metabolomics</i> , 2012, 8, 367-367.	1.4	0
116	Birmingham Metabolite Library: a publicly accessible database of 1-D 1H and 2-D 1H J-resolved NMR spectra of authentic metabolite standards (BML-NMR). <i>Metabolomics</i> , 2012, 8, 8-18.	1.4	137
117	Characterization of Isotopic Abundance Measurements in High Resolution FT-ICR and Orbitrap Mass Spectra for Improved Confidence of Metabolite Identification. <i>Analytical Chemistry</i> , 2011, 83, 3737-3743.	3.2	102
118	Metabolomics Reveals Target and Off-Target Toxicities of a Model Organophosphate Pesticide to Roach (<i>Rutilus rutilus</i>): Implications for Biomonitoring. <i>Environmental Science & Technology</i> , 2011, 45, 3759-3767.	4.6	68
119	Hypoxia Triggers Major Metabolic Changes in AML Cells without Altering Indomethacin-Induced TCA Cycle Deregulation. <i>ACS Chemical Biology</i> , 2011, 6, 169-175.	1.6	31
120	Metabolomics of Microliter Hemolymph Samples Enables an Improved Understanding of the Combined Metabolic and Transcriptional Responses of <i>Daphnia magna</i> to Cadmium. <i>Environmental Science & Technology</i> , 2011, 45, 3710-3717.	4.6	83
121	Structure and function of BamE within the outer membrane and the β -barrel assembly machine. <i>EMBO Reports</i> , 2011, 12, 123-128.	2.0	88
122	Aggregation and dispersion of silver nanoparticles in exposure media for aquatic toxicity tests. <i>Journal of Chromatography A</i> , 2011, 1218, 4226-4233.	1.8	192
123	Towards a System Level Understanding of Non-Model Organisms Sampled from the Environment: A Network Biology Approach. <i>PLoS Computational Biology</i> , 2011, 7, e1002126.	1.5	83
124	NMR-based metabolomic analysis of cerebrospinal fluid and serum in neurological diseases â€“ a diagnostic tool?. <i>NMR in Biomedicine</i> , 2010, 23, 123-132.	1.6	105
125	Approaches to interpretation of â€“Omics data: Identification of responses in European Flounder populations sampled from sites with different levels of environmental pollutants. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010, 157, S3.	0.8	0
126	MI-Pack: Increased confidence of metabolite identification in mass spectra by integrating accurate masses and metabolic pathways. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 104, 75-82.	1.8	78

#	ARTICLE	IF	CITATIONS
127	Linked Metabolites: A tool for the construction of directed metabolic graphs. <i>Computers in Biology and Medicine</i> , 2010, 40, 340-349.	3.9	4
128	Two-dimensional ¹ H- ¹³ C-resolved NMR spectroscopy: review of a key methodology in the metabolomics toolbox. <i>Phytochemical Analysis</i> , 2010, 21, 22-32.	1.2	208
129	Discovery of Metabolic Signatures for Predicting Whole Organism Toxicology. <i>Toxicological Sciences</i> , 2010, 115, 369-378.	1.4	74
130	Discriminating between Different Acute Chemical Toxicities via Changes in the Daphnid Metabolome. <i>Toxicological Sciences</i> , 2010, 118, 307-317.	1.4	67
131	Identifying Health Impacts of Exposure to Copper Using Transcriptomics and Metabolomics in a Fish Model. <i>Environmental Science & Technology</i> , 2010, 44, 820-826.	4.6	152
132	Metabolic responses produced by crude versus dispersed oil in Chinook salmon pre-smolts via NMR-based metabolomics. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 710-717.	2.9	35
133	Hepatic transcriptomic and metabolomic responses in the Stickleback (<i>Gasterosteus aculeatus</i>) exposed to ethinyl-estradiol. <i>Aquatic Toxicology</i> , 2010, 97, 174-187.	1.9	71
134	Application of Metabolomics to Investigate the Process of Human Orthotopic Liver Transplantation: A Proof-of-Principle Study. <i>OMICS A Journal of Integrative Biology</i> , 2010, 14, 143-150.	1.0	39
135	Metabolomic Profiling of Drug Responses in Acute Myeloid Leukaemia Cell Lines. <i>PLoS ONE</i> , 2009, 4, e4251.	1.1	101
136	Combined Bezafibrate and Medroxyprogesterone Acetate: Potential Novel Therapy for Acute Myeloid Leukaemia. <i>PLoS ONE</i> , 2009, 4, e8147.	1.1	63
137	Line-shape analysis of ¹ H- ¹³ C-resolved NMR spectra: application to metabolomics and quantification of intensity errors from signal processing and high signal congestion. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, S86-95.	1.1	30
138	Fast targeted multidimensional NMR metabolomics of colorectal cancer. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, S68-73.	1.1	83
139	Analysis of time course ¹ H NMR metabolomics data by multivariate curve resolution. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, S105-17.	1.1	33
140	A new approach to toxicity testing in <i>Daphnia magna</i> : application of high throughput FT-ICR mass spectrometry metabolomics. <i>Metabolomics</i> , 2009, 5, 44-58.	1.4	118
141	Environmental metabolomics: a critical review and future perspectives. <i>Metabolomics</i> , 2009, 5, 3-21.	1.4	656
142	Applications of metabolomics to the environmental sciences. <i>Metabolomics</i> , 2009, 5, 1-2.	1.4	44
143	Profiling MS proteomics data using smoothed non-linear energy operator and Bayesian additive regression trees. <i>Proteomics</i> , 2009, 9, 4176-4191.	1.3	7
144	A signal filtering method for improved quantification and noise discrimination in fourier transform ion cyclotron resonance mass spectrometry-based metabolomics data. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1087-1095.	1.2	65

#	ARTICLE	IF	CITATIONS
145	Hepatic Transcriptomic and Metabolomic Responses in the Stickleback (<i>Gasterosteus aculeatus</i>) Exposed to Environmentally Relevant Concentrations of Dibenzanthracene. <i>Environmental Science & Technology</i> , 2009, 43, 6341-6348.	4.6	71
146	Characterization of the metabolic actions of crude versus dispersed oil in salmon smolts via NMR-based metabolomics. <i>Aquatic Toxicology</i> , 2009, 95, 230-238.	1.9	44
147	International NMR-Based Environmental Metabolomics Intercomparison Exercise. <i>Environmental Science & Technology</i> , 2009, 43, 219-225.	4.6	139
148	Spectral relative standard deviation: a practical benchmark in metabolomics. <i>Analyst</i> , 2009, 134, 478-485.	1.7	163
149	Effects of the application of different window functions and projection methods on processing of 1H J-resolved nuclear magnetic resonance spectra for metabolomics. <i>Analytica Chimica Acta</i> , 2008, 610, 80-88.	2.6	29
150	Improved identification of metabolites in complex mixtures using HSQC NMR spectroscopy. <i>Analytica Chimica Acta</i> , 2008, 614, 127-133.	2.6	64
151	High-throughput tissue extraction protocol for NMR- and MS-based metabolomics. <i>Analytical Biochemistry</i> , 2008, 372, 204-212.	1.1	551
152	Optimized metabolite extraction from blood serum for 1H nuclear magnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , 2008, 377, 16-23.	1.1	164
153	Recent developments in environmental metabolomics. <i>Molecular BioSystems</i> , 2008, 4, 980.	2.9	169
154	Metabolic Changes in Flatfish Hepatic Tumours Revealed by NMR-Based Metabolomics and Metabolic Correlation Networks. <i>Journal of Proteome Research</i> , 2008, 7, 5277-5285.	1.8	60
155	Revealing the Metabolome of Animal Tissues Using 1H Nuclear Magnetic Resonance Spectroscopy. <i>Methods in Molecular Biology</i> , 2007, 358, 229-246.	0.4	73
156	Dynamic Range and Mass Accuracy of Wide-Scan Direct Infusion Nanoelectrospray Fourier Transform Ion Cyclotron Resonance Mass Spectrometry-Based Metabolomics Increased by the Spectral Stitching Method. <i>Analytical Chemistry</i> , 2007, 79, 4595-4602.	3.2	170
157	Direct Sampling of Organisms from the Field and Knowledge of their Phenotype: A Key Recommendations for Environmental Metabolomics. <i>Environmental Science & Technology</i> , 2007, 41, 3375-3381.	4.6	134
158	Comparison of histological, genetic, metabolomics, and lipid-based methods for sex determination in marine mussels. <i>Analytical Biochemistry</i> , 2007, 369, 175-186.	1.1	65
159	Variance stabilising transformations for NMR metabolomics data. <i>BMC Systems Biology</i> , 2007, 1, .	3.0	2
160	Improved classification accuracy in 1- and 2-dimensional NMR metabolomics data using the variance stabilising generalised logarithm transformation. <i>BMC Bioinformatics</i> , 2007, 8, 234.	1.2	188
161	Databases and Standardisation of Reporting Methods for Metabolic Studies. , 2007, , 227-239.		0
162	Proposed reporting requirements for the description of NMR-based metabolomics experiments. <i>Metabolomics</i> , 2007, 3, 223-229.	1.4	49

#	ARTICLE	IF	CITATIONS
163	Evaluation of metabolite extraction strategies from tissue samples using NMR metabolomics. <i>Metabolomics</i> , 2007, 3, 55-67.	1.4	345
164	Standard reporting requirements for biological samples in metabolomics experiments: environmental context. <i>Metabolomics</i> , 2007, 3, 203-210.	1.4	93
165	Metabolomics standards initiative: ontology working group work in progress. <i>Metabolomics</i> , 2007, 3, 249-256.	1.4	52
166	Proposed minimum reporting standards for chemical analysis. <i>Metabolomics</i> , 2007, 3, 211-221.	1.4	3,589
167	Validation of a urine metabolome fingerprint in dog for phenotypic classification. <i>Metabolomics</i> , 2007, 3, 453-463.	1.4	40
168	Developmental rates, structural asymmetry, and metabolic fingerprints of steelhead trout (<i>Oncorhynchus mykiss</i>) eggs incubated at two temperatures. <i>Fish Physiology and Biochemistry</i> , 2007, 33, 59-72.	0.9	19
169	Metabolomics of aquatic organisms: the new 'omics' on the block. <i>Marine Ecology - Progress Series</i> , 2007, 332, 301-306.	0.9	151
170	Heuristic Search for 2D NMR Alignment to Support Metabolite Identification. <i>Lecture Notes in Computer Science</i> , 2007, , 447-458.	1.0	0
171	Effects of Temperature on Host-Pathogen-Drug Interactions in Red Abalone, <i>Haliotis rufescens</i> , Determined by ¹ H NMR Metabolomics. <i>Environmental Science & Technology</i> , 2006, 40, 7077-7084.	4.6	37
172	Toxic actions of dinoseb in medaka (<i>Oryzias latipes</i>) embryos as determined by in vivo ³¹ P NMR, HPLC-UV and ¹ H NMR metabolomics. <i>Aquatic Toxicology</i> , 2006, 76, 329-342.	1.9	101
173	Metabolic effects of dinoseb, diazinon and esfenvalerate in eyed eggs and alevins of Chinook salmon (<i>Oncorhynchus tshawytscha</i>) determined by ¹ H NMR metabolomics. <i>Aquatic Toxicology</i> , 2006, 77, 359-371.	1.9	132
174	Metabolomics: Methodologies and applications in the environmental sciences. <i>Journal of Pesticide Sciences</i> , 2006, 31, 245-251.	0.8	170
175	Cellular responses to temperature stress in steelhead trout (<i>Onchorhynchus mykiss</i>) parr with different rearing histories. <i>Fish Physiology and Biochemistry</i> , 2006, 32, 261-273.	0.9	21
176	Automated screening for metabolites in complex mixtures using 2D COSY NMR spectroscopy. <i>Metabolomics</i> , 2006, 2, 221-233.	1.4	48
177	'Omics ¹ Approaches in the Context of Environmental Toxicology. , 2006, , 1-31.		0
178	An NMR metabolomic investigation of early metabolic disturbances following traumatic brain injury in a mammalian model. <i>NMR in Biomedicine</i> , 2005, 18, 507-516.	1.6	94
179	Characterizing the metabolic actions of natural stresses in the California red abalone, <i>Haliotis rufescens</i> using ¹ H NMR metabolomics. <i>Metabolomics</i> , 2005, 1, 199-209.	1.4	73
180	NMR-derived developmental metabolic trajectories: an approach for visualizing the toxic actions of trichloroethylene during embryogenesis. <i>Metabolomics</i> , 2005, 1, 149-158.	1.4	88

#	ARTICLE	IF	CITATIONS
181	Influence of organic carbon on reductive dechlorination of thiobencarb in California rice field soils. <i>Pest Management Science</i> , 2005, 61, 68-74.	1.7	7
182	Liver Tumors in Wild Flatfish: A Histopathological, Proteomic, and Metabolomic Study. <i>OMICS A Journal of Integrative Biology</i> , 2005, 9, 281-299.	1.0	82
183	Water Pentamer: Characterization of the Torsional-Puckering Manifold by Terahertz VRT Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6483-6497.	1.1	37
184	Metabolic changes in Japanese medaka (<i>Oryzias latipes</i>) during embryogenesis and hypoxia as determined by in vivo ^{31}P NMR. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2005, 140, 103-113.	1.3	31
185	Environmental Metabolomics Using ^1H -NMR Spectroscopy. <i>Methods in Molecular Biology</i> , 2005, 410, 137-150.	0.4	21
186	Characterization of California Rice Field Soils Susceptible to Delayed Phytotoxicity Syndrome. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2004, 73, 448-56.	1.3	1
187	Discrimination Models Using Variance-Stabilizing Transformation of Metabolomic NMR Data. <i>OMICS A Journal of Integrative Biology</i> , 2004, 8, 118-130.	1.0	106
188	Correlation between heat-shock protein induction and reduced metabolic condition in juvenile steelhead trout (<i>Oncorhynchus mykiss</i>) chronically exposed to elevated temperature. <i>Fish Physiology and Biochemistry</i> , 2003, 29, 159-171.	0.9	104
189	NMR-Based Metabolomics: A Powerful Approach for Characterizing the Effects of Environmental Stressors on Organism Health. <i>Environmental Science & Technology</i> , 2003, 37, 4982-4989.	4.6	406
190	Improved methods for the acquisition and interpretation of NMR metabolomic data. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 943-948.	1.0	293
191	Toxicokinetics and biotransformation of p-nitrophenol in red abalone (<i>Haliotis rufescens</i>). <i>Aquatic Toxicology</i> , 2003, 62, 329-336.	1.9	7
192	Oral Estrogen Masculinizes Female Zebra Finch Song System. <i>Hormones and Behavior</i> , 2002, 41, 236-241.	1.0	25
193	Utilizing in vivo nuclear magnetic resonance spectroscopy to study sublethal stress in aquatic organisms. <i>Marine Environmental Research</i> , 2002, 54, 553-557.	1.1	23
194	Sublethal actions of copper in abalone (<i>Haliotis rufescens</i>) as characterized by in vivo ^{31}P NMR. <i>Aquatic Toxicology</i> , 2002, 57, 139-151.	1.9	53
195	An avian bioassay for environmental estrogens: The growth response of zebra finch (<i>Taeniopygia</i>) to oral estrogens. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 2663-2668.	2.2	18
196	AN AVIAN BIOASSAY FOR ENVIRONMENTAL ESTROGENS: THE GROWTH RESPONSE OF ZEBRA FINCH (<i>TAENIOPYGIA GUTTATA</i>) CHICK OVIDUCT TO ORAL ESTROGENS. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 2663.	2.2	2
197	An avian bioassay for environmental estrogens: the growth response of zebra finch (<i>Taeniopygia</i>) to oral estrogens. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 2663-2668.	2.2	4
198	Hydrogen Bond Breaking Dynamics of the Water Trimer in the Translational and Librational Band Region of Liquid Water. <i>Journal of the American Chemical Society</i> , 2001, 123, 5938-5941.	6.6	42

#	ARTICLE	IF	CITATIONS
199	Optimized method for the determination of phosphoarginine in abalone tissue by high-performance liquid chromatography. <i>Biomedical Applications</i> , 2001, 765, 107-111.	1.7	38
200	Comparative Sublethal Actions of 3-Trifluoromethyl-4-nitrophenol in Marine Molluscs as Measured by in Vivo ³¹ P NMR. <i>Pesticide Biochemistry and Physiology</i> , 2001, 71, 40-47.	1.6	37
201	Far-infrared laser vibration-rotation-tunneling spectroscopy of water clusters in the librational band region of liquid water. <i>Journal of Chemical Physics</i> , 2001, 114, 4005-4015.	1.2	34
202	Regulation of brain-derived neurotrophic factor messenger RNA levels in avian hypothalamic slice cultures. <i>Neuroscience</i> , 2000, 99, 373-380.	1.1	12
203	Quantitative characterization of the (D ₂ O) ₃ torsional manifold by terahertz laser spectroscopy and theoretical analysis. <i>Journal of Chemical Physics</i> , 1999, 110, 4369-4381.	1.2	53
204	Quantitative characterization of the water trimer torsional manifold by terahertz laser spectroscopy and theoretical analysis. II. (H ₂ O) ₃ . <i>Journal of Chemical Physics</i> , 1999, 111, 7789-7800.	1.2	49
205	Terahertz laser vibration-rotation-tunneling spectrum of the water pentamer-d ₁₀ . <i>Chemical Physics Letters</i> , 1998, 292, 667-676.	1.2	18
206	Pseudorotation in Water Trimer Isotopomers Using Terahertz Laser Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9032-9041.	1.1	100
207	Terahertz Laser Vibration-Rotation Tunneling Spectroscopy of the Water Tetramer. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9022-9031.	1.1	110
208	Far infrared VRT spectroscopy of two water trimer isotopomers vibrationally averaged structures and rearrangement dynamics. <i>Molecular Physics</i> , 1996, 89, 1373-1396.	0.8	21
209	A long path length pulsed slit valve appropriate for high temperature operation: Infrared spectroscopy of jet-cooled large water clusters and nucleotide bases. <i>Review of Scientific Instruments</i> , 1996, 67, 410-416.	0.6	83
210	Infrared laser spectroscopy of uracil in a pulsed slit jet. <i>Journal of Chemical Physics</i> , 1995, 103, 9502-9505.	1.2	49
211	Microwave spectroscopy and interaction potential of the long-range He...Ar ⁺ ion. <i>Journal of Chemical Physics</i> , 1995, 102, 2379-2403.	1.2	69
212	Nuclear hyperfine structure in the electronic millimetre wave spectrum of H ₂ ⁺ . <i>Chemical Physics Letters</i> , 1993, 206, 77-82.	1.2	20
213	Near-dissociation microwave spectra of rare-gas diatomic ions. <i>Chemical Physics Letters</i> , 1993, 212, 473-479.	1.2	17
214	Microwave electronic spectroscopy, electric field dissociation and photofragmentation of the H + 2 ion. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 603.	1.7	32
215	Spectroscopy of HD ⁺ in high angular momentum states. <i>Chemical Physics</i> , 1992, 166, 145-166.	0.9	14
216	Bioinformatic Approaches to Processing and Annotation of High-Resolution Mass Spectrometry Data. , 0, , 159-173.		0