

Aurelien Thomas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

3,090
citations

32
h-index

53
g-index

115
ext. papers

3,662
ext. citations

5.2
avg, IF

5.28
L-index

#	Paper	IF	Citations
101	Current approaches and challenges for the metabolite profiling of complex natural extracts. <i>Journal of Chromatography A</i> , 2015 , 1382, 136-64	4.5	332
100	Sublimation of new matrix candidates for high spatial resolution imaging mass spectrometry of lipids: enhanced information in both positive and negative polarities after 1,5-diaminonaphthalene deposition. <i>Analytical Chemistry</i> , 2012 , 84, 2048-54	7.8	244
99	Intraocular implants for extended drug delivery: therapeutic applications. <i>Advanced Drug Delivery Reviews</i> , 2006 , 58, 1182-202	18.5	178
98	Direct analysis of dried blood spots coupled with mass spectrometry: concepts and biomedical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 2485-98	4.4	112
97	Silver-assisted laser desorption ionization for high spatial resolution imaging mass spectrometry of olefins from thin tissue sections. <i>Analytical Chemistry</i> , 2013 , 85, 3318-24	7.8	102
96	Elevated endocannabinoid plasma levels are associated with coronary circulatory dysfunction in obesity. <i>European Heart Journal</i> , 2011 , 32, 1369-78	9.5	100
95	Toxicity assessment of refill liquids for electronic cigarettes. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 12, 4796-815	4.6	91
94	On-line desorption of dried blood spot: A novel approach for the direct LC/MS analysis of micro-whole blood samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 49, 1034-9	3.5	78
93	On-line desorption of dried blood spots coupled to hydrophilic interaction/reversed-phase LC/MS/MS system for the simultaneous analysis of drugs and their polar metabolites. <i>Journal of Separation Science</i> , 2010 , 33, 873-9	3.4	73
92	New microfluidic-based sampling procedure for overcoming the hematocrit problem associated with dried blood spot analysis. <i>Analytical Chemistry</i> , 2015 , 87, 2068-71	7.8	72
91	Improvement in coronary circulatory function in morbidly obese individuals after gastric bypass-induced weight loss: relation to alterations in endocannabinoids and adipocytokines. <i>European Heart Journal</i> , 2013 , 34, 2063-73	9.5	71
90	XCMS-MRM and METLIN-MRM: a cloud library and public resource for targeted analysis of small molecules. <i>Nature Methods</i> , 2018 , 15, 681-684	21.6	69
89	Automated system for on-line desorption of dried blood spots applied to LC/MS/MS pharmacokinetic study of flurbiprofen and its metabolite. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 54, 359-67	3.5	69
88	Histology-driven data mining of lipid signatures from multiple imaging mass spectrometry analyses: application to human colorectal cancer liver metastasis biopsies. <i>Analytical Chemistry</i> , 2013 , 85, 2860-6	7.8	57
87	Advances in tissue section preparation for MALDI imaging MS. <i>Bioanalysis</i> , 2014 , 6, 967-82	2.1	51
86	Monitoring time-dependent degradation of phospholipids in sectioned tissues by MALDI imaging mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2014 , 49, 622-7	2.2	48
85	Quantitative and qualitative profiling of endocannabinoids in human plasma using a triple quadrupole linear ion trap mass spectrometer with liquid chromatography. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 629-38	2.2	47

84	Coronary vasomotor control in obesity and morbid obesity: contrasting flow responses with endocannabinoids, leptin, and inflammation. <i>JACC: Cardiovascular Imaging</i> , 2012 , 5, 805-15	8.4	46
83	Weed or wheel! FMRI, behavioural, and toxicological investigations of how cannabis smoking affects skills necessary for driving. <i>PLoS ONE</i> , 2013 , 8, e52545	3.7	46
82	Drug vaping applied to cannabis: Is "Cannavaping" a therapeutic alternative to marijuana?. <i>Scientific Reports</i> , 2016 , 6, 25599	4.9	45
81	Fatty acid amide hydrolase deficiency enhances intraplaque neutrophil recruitment in atherosclerotic mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 215-23	9.4	45
80	Fast gas chromatography and negative-ion chemical ionization tandem mass spectrometry for forensic analysis of cannabinoids in whole blood. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 45, 495-503	3.5	45
79	Diabetes Mellitus Is Associated With Reduced High-Density Lipoprotein Sphingosine-1-Phosphate Content and Impaired High-Density Lipoprotein Cardiac Cell Protection. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 817-24	9.4	43
78	Use of the dried blood spot sampling process coupled with fast gas chromatography and negative-ion chemical ionization tandem mass spectrometry: application to fluoxetine, norfluoxetine, reboxetine, and paroxetine analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 2523-32	4.4	43
77	The effectiveness of exercise as treatment for vasomotor menopausal symptoms: randomised controlled trial. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2015 , 122, 565-75	3.7	42
76	Rapid LC-MS/MS quantification of the major benzodiazepines and their metabolites on dried blood spots using a simple and cost-effective sample pretreatment. <i>Bioanalysis</i> , 2012 , 4, 1337-50	2.1	41
75	Constant rate infusion of vancomycin in premature neonates: a new dosage schedule. <i>British Journal of Clinical Pharmacology</i> , 1998 , 46, 163-7	3.8	41
74	Three-dimensional imaging MS of lipids in atherosclerotic plaques: Open-source methods for reconstruction and analysis. <i>Proteomics</i> , 2016 , 16, 1642-51	4.8	39
73	Mass spectrometry for the evaluation of cardiovascular diseases based on proteomics and lipidomics. <i>Thrombosis and Haemostasis</i> , 2011 , 106, 20-33	7	38
72	High-Throughput Phospholipidic Fingerprinting by Online Desorption of Dried Spots and Quadrupole-Linear Ion Trap Mass Spectrometry: Evaluation of Atherosclerosis Biomarkers in Mouse Plasma. <i>Analytical Chemistry</i> , 2010 , 82, 6687-6694	7.8	36
71	Impact of CYP2D6 Functional Allelic Variations on Phenoconversion and Drug-Drug Interactions. <i>Clinical Pharmacology and Therapeutics</i> , 2018 , 104, 148-157	6.1	33
70	Improving reconstituted HDL composition for efficient post-ischemic reduction of ischemia reperfusion injury. <i>PLoS ONE</i> , 2015 , 10, e0119664	3.7	33
69	Evaluation of Mutual Drug-Drug Interaction within Geneva Cocktail for Cytochrome P450 Phenotyping using Innovative Dried Blood Sampling Method. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2016 , 119, 284-90	3.1	31
68	A systematic review of passive exposure to cannabis. <i>Forensic Science International</i> , 2016 , 269, 97-112	2.6	29
67	Orthogonal organic and aqueous-based washes of tissue sections to enhance protein sensitivity by MALDI imaging mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2013 , 48, 42-8	2.2	29

66	Receptor activator of NF- κ B ligand (RANKL) increases the release of neutrophil products associated with coronary vulnerability. <i>Thrombosis and Haemostasis</i> , 2012 , 107, 124-39	7	27
65	Assessment of pathological response to therapy using lipid mass spectrometry imaging. <i>Scientific Reports</i> , 2016 , 6, 36814	4.9	26
64	Molecular imaging of matrix metalloproteinases in atherosclerotic plaques. <i>Thrombosis and Haemostasis</i> , 2012 , 107, 409-16	7	26
63	Oral flurbiprofen metabolic ratio assessment using a single-point dried blood spot. <i>Clinical Pharmacology and Therapeutics</i> , 2012 , 91, 489-96	6.1	25
62	Effect of progesterone on hypothalamic oxytocin messenger ribonucleic acid levels in the lactating rat. <i>Endocrinology</i> , 1995 , 136, 4188-94	4.8	25
61	Systematic evaluation of matrix effects in hydrophilic interaction chromatography versus reversed phase liquid chromatography coupled to mass spectrometry. <i>Journal of Chromatography A</i> , 2016 , 1439, 42-53	4.5	24
60	Gastric bypass in morbid obese patients is associated with reduction in adipose tissue inflammation via N-oleoylethanolamide (OEA)-mediated pathways. <i>Thrombosis and Haemostasis</i> , 2015 , 113, 838-50	7	23
59	Phenotyping of Human CYP450 Enzymes by Endobiotics: Current Knowledge and Methodological Approaches. <i>Clinical Pharmacokinetics</i> , 2019 , 58, 1373-1391	6.2	22
58	Metabolomics as a Tool to Understand Pathophysiological Processes. <i>Methods in Molecular Biology</i> , 2018 , 1730, 3-28	1.4	22
57	Proteome and Metabolome of Subretinal Fluid in Central Serous Chorioretinopathy and Rhegmatogenous Retinal Detachment: A Pilot Case Study. <i>Translational Vision Science and Technology</i> , 2018 , 7, 3	3.3	21
56	Iron is neurotoxic in retinal detachment and transferrin confers neuroprotection. <i>Science Advances</i> , 2019 , 5, eaau9940	14.3	18
55	Endogenous cannabinoid receptor CB1 activation promotes vascular smooth-muscle cell proliferation and neointima formation. <i>Journal of Lipid Research</i> , 2013 , 54, 1360-8	6.3	17
54	Renal handling of zinc in chronic kidney disease patients and the role of circulating zinc levels in renal function decline. <i>Nephrology Dialysis Transplantation</i> , 2020 , 35, 1163-1170	4.3	17
53	Trace element intakes should be revisited in burn nutrition protocols: A cohort study. <i>Clinical Nutrition</i> , 2018 , 37, 958-964	5.9	15
52	Functional characterization of the human prion protein promoter in neuronal and endothelial cells. <i>Journal of Molecular Medicine</i> , 2001 , 79, 529-35	5.5	15
51	2-Arachidonoylglycerol mobilizes myeloid cells and worsens heart function after acute myocardial infarction. <i>Cardiovascular Research</i> , 2019 , 115, 602-613	9.9	15
50	In vivo neurochemical measurements in cerebral tissues using a droplet-based monitoring system. <i>Nature Communications</i> , 2017 , 8, 1239	17.4	14
49	Molecular composition of fingerprints: Assessment of the intra- and inter-variability in a small group of donors using MALDI-MSI. <i>Forensic Chemistry</i> , 2019 , 12, 99-106	2.8	14

48	Liquid chromatography-high resolution mass spectrometry for broad-spectrum drug screening of dried blood spot as microsampling procedure. <i>Analytica Chimica Acta</i> , 2019 , 1063, 110-116	6.6	13
47	In vitro and in vivo pharmacology of synthetic olivetol- or resorcinol-derived cannabinoid receptor ligands. <i>British Journal of Pharmacology</i> , 2006 , 149, 431-40	8.6	13
46	Separation of blood microsamples by exploiting sedimentation at the microscale. <i>Scientific Reports</i> , 2018 , 8, 14101	4.9	13
45	Will Widespread Synthetic Opioid Consumption Induce Epigenetic Consequences in Future Generations?. <i>Frontiers in Pharmacology</i> , 2018 , 9, 702	5.6	12
44	Anti-adipogenic signals at the onset of obesity-related inflammation in white adipose tissue. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 227-247	10.3	12
43	High-density lipoprotein from end-stage renal disease patients exhibits superior cardioprotection and increase in sphingosine-1-phosphate. <i>European Journal of Clinical Investigation</i> , 2018 , 48, e12866	4.6	11
42	Plasma palmitoylethanolamide (PEA) as a potential biomarker for impaired coronary function. <i>International Journal of Cardiology</i> , 2017 , 231, 1-5	3.2	10
41	Multiplex quantitative imaging of human myocardial infarction by mass spectrometry-immunohistochemistry. <i>International Journal of Legal Medicine</i> , 2018 , 132, 1675-1684	3.1	10
40	Potential missing steps for a wide use of dried matrix spots in biomedical analysis. <i>Bioanalysis</i> , 2015 , 7, 2375-2385	2.1	9
39	Imaging mass spectrometry of elements in forensic cases by LA-ICP-MS. <i>International Journal of Legal Medicine</i> , 2017 , 131, 497-500	3.1	9
38	Isotonitazene: Fatal intoxication in three cases involving this unreported novel psychoactive substance in Switzerland. <i>Forensic Science International</i> , 2021 , 320, 110686	2.6	9
37	Deficiency of Monoacylglycerol Lipase Enhances IgM Plasma Levels and Limits Atherogenesis in a CB2-Dependent Manner. <i>Thrombosis and Haemostasis</i> , 2019 , 119, 348-351	7	7
36	Consommation de cannabis: quels sont les risques?. <i>Toxicologie Analytique Et Clinique</i> , 2008 , 20, 183-205	5.4	7
35	Effect of acute physical exercise on motor sequence memory. <i>Scientific Reports</i> , 2020 , 10, 15322	4.9	7
34	French cross-cultural adaptation of the Organizational Readiness for Implementing Change (ORIC). <i>BMC Health Services Research</i> , 2019 , 19, 535	2.9	6
33	High-Throughput Qualitative and Quantitative Drug Checking by MALDI HRMS. <i>Frontiers in Chemistry</i> , 2020 , 8, 695	5	6
32	Triangulating evidence from longitudinal and Mendelian randomization studies of metabolomic biomarkers for type 2 diabetes. <i>Scientific Reports</i> , 2021 , 11, 6197	4.9	6
31	Enantiomeric methadone quantitation on real post-mortem dried matrix spots samples: Comparison of liquid chromatography and supercritical fluid chromatography coupled to mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021 , 1177, 122755	3.2	6

30	Effects of a Weight Loss Program on Metabolic Syndrome, Eating Disorders and Psychological Outcomes: Mediation by Endocannabinoids?. <i>Obesity Facts</i> , 2018 , 11, 144-156	5.1	5
29	Parallel Reaction Monitoring-Based Quantification of Cannabinoids in Whole Blood. <i>Journal of Analytical Toxicology</i> , 2020 , 44, 541-548	2.9	5
28	In situ metabolomic changes in rat hippocampus after acute cocaine administration. <i>International Journal of Mass Spectrometry</i> , 2019 , 437, 87-91	1.9	4
27	DBnorm as an R package for the comparison and selection of appropriate statistical methods for batch effect correction in metabolomic studies. <i>Scientific Reports</i> , 2021 , 11, 5657	4.9	4
26	Beneficial Effects of Human Mesenchymal Stromal Cells on Porcine Hepatocyte Viability and Albumin Secretion. <i>Journal of Immunology Research</i> , 2018 , 2018, 1078547	4.5	4
25	Metabolomics reveals biomarkers in human urine and plasma to predict cytochrome P450 2D6 (CYP2D6) activity. <i>British Journal of Pharmacology</i> , 2021 , 178, 4708-4725	8.6	4
24	Pharmacokinetics and biodistribution study of self-assembled Gd-micelles demonstrating blood-pool contrast enhancement for MRI. <i>International Journal of Pharmaceutics</i> , 2019 , 568, 118496	6.5	3
23	Visualization and normalization of drift effect across batches in metabolome-wide association studies		3
22	(MA)LDI MS Imaging at High Specificity and Sensitivity 2016 , 129-147		2
21	High-density lipoprotein-associated sphingosine-1-phosphate activity in heterozygous familial hypercholesterolaemia. <i>European Journal of Clinical Investigation</i> , 2017 , 47, 38-43	4.6	2
20	Acute physical exercise improves memory consolidation in humans via BDNF and endocannabinoid signaling		2
19	Detecting early myocardial ischemia in rat heart by MALDI imaging mass spectrometry. <i>Scientific Reports</i> , 2021 , 11, 5135	4.9	2
18	A single session of moderate intensity exercise influences memory, endocannabinoids and brain derived neurotrophic factor levels in men. <i>Scientific Reports</i> , 2021 , 11, 14371	4.9	2
17	Ambulatory Blood Pressure in Relation to Plasma and Urinary Manganese. <i>Hypertension</i> , 2020 , 75, 1133-1139	8.5	2
16	Vascular-targeted micelles as a specific MRI contrast agent for molecular imaging of fibrin clots and cancer cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 158, 347-358	5.7	2
15	Simultaneous determination of melatonin and 6-hydroxymelatonin in human overnight urine by LC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021 , 1181, 122938	3.2	2
14	High-throughput phospholipidic fingerprinting by online desorption of dried spots and quadrupole-linear ion trap mass spectrometry: evaluation of atherosclerosis biomarkers in mouse plasma. <i>Analytical Chemistry</i> , 2010 , 82, 6687-94	7.8	2
13	Suspicion of driving under the influence of alcohol or drugs: Cross sectional analysis of drug prevalence in the context of the Swiss legislation. <i>Forensic Science International</i> , 2021 , 329, 111081	2.6	1

12	Driving Under the Influence of Drugs: A Single Parallel Monitoring-Based Quantification Approach on Whole Blood. <i>Frontiers in Chemistry</i> , 2020 , 8, 626	5	1
11	Metabolomic alteration induced by psychotropic drugs: Short-term metabolite profile as a predictor of weight gain evolution. <i>Clinical and Translational Science</i> , 2021 , 14, 2544-2555	4.9	1
10	A chemoinformatics search for peroxisome proliferator-activated receptors ligands revealed a new pan-agonist able to reduce lipid accumulation and improve insulin sensitivity.. <i>European Journal of Medicinal Chemistry</i> , 2022 , 235, 114240	6.8	1
9	Development of a printed quality control test strip for the analysis and imaging of fingerprint composition. <i>Forensic Science International</i> , 2021 , 329, 111063	2.6	0
8	Sphingosine-1-phosphate as a key player of insulin secretion induced by high-density lipoprotein treatment. <i>Physiological Reports</i> , 2021 , 9, e14786	2.6	0
7	Local Cisplatin Delivery in Mouse Reliably Models Sensorineural Ototoxicity Without Systemic Adverse Effects. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 701783	6.1	0
6	Cadmium acute exposure induces metabolic and transcriptomic perturbations in human mature adipocytes.. <i>Toxicology</i> , 2022 , 153153	4.4	0
5	An in vitro strategy using multiple human induced pluripotent stem cell-derived models to assess the toxicity of chemicals: A case study on paraquat.. <i>Toxicology in Vitro</i> , 2022 , 105333	3.6	0
4	Métabolomique et autres omiques en toxicologie : approches, applications et défis. <i>Toxicologie Analytique Et Clinique</i> , 2018 , 30, S30	0.4	
3	Omics in Forensic Toxicology a Bridge Towards Forensic Medicine 2017 , 475-485		
2	Désorption en ligne de spots de sang séché : une approche intéressante pour l'analyse par LC-MS/MS de microéchantillons de sang. <i>Toxicologie Analytique Et Clinique</i> , 2010 , 22, 103-107	0.4	
1	XCMS-MRM et METLIN-MRM : outils bio-informatiques pour l'analyse ciblée de petites molécules appliqués à la toxicologie. <i>Toxicologie Analytique Et Clinique</i> , 2020 , 32, S42-S43	0.4	