

Aurelien Thomas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/856546/publications.pdf>

Version: 2024-02-01

105
papers

4,087
citations

109321

35
h-index

128289

60
g-index

116
all docs

116
docs citations

116
times ranked

6136
citing authors

#	ARTICLE	IF	CITATIONS
1	Current approaches and challenges for the metabolite profiling of complex natural extracts. <i>Journal of Chromatography A</i> , 2015, 1382, 136-164.	3.7	430
2	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, 2048-2054.	6.5	288
3	Intraocular implants for extended drug delivery: Therapeutic applications. <i>Advanced Drug Delivery Reviews</i> , 2006, 58, 1182-1202.	13.7	206
4	Silver-Assisted Laser Desorption Ionization For High Spatial Resolution Imaging Mass Spectrometry of Olefins from Thin Tissue Sections. <i>Analytical Chemistry</i> , 2013, 85, 3318-3324.	6.5	124
5	Elevated endocannabinoid plasma levels are associated with coronary circulatory dysfunction in obesity. <i>European Heart Journal</i> , 2011, 32, 1369-1378.	2.2	123
6	Direct analysis of dried blood spots coupled with mass spectrometry: concepts and biomedical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2485-2498.	3.7	120
7	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.	19.0	112
8	Toxicity Assessment of Refill Liquids for Electronic Cigarettes. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 4796-4815.	2.6	105
9	New Microfluidic-Based Sampling Procedure for Overcoming the Hematocrit Problem Associated with Dried Blood Spot Analysis. <i>Analytical Chemistry</i> , 2015, 87, 2068-2071.	6.5	93
10	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, 2063-2073.	2.2	90
11	On-line desorption of dried blood spot: A novel approach for the direct LC/MS analysis of 1/4-whole blood samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 1034-1039.	2.8	87
12	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, 873-879.	2.5	79
13	Weed or Wheel! fMRI, Behavioural, and Toxicological Investigations of How Cannabis Smoking Affects Skills Necessary for Driving. <i>PLoS ONE</i> , 2013, 8, e52545.	2.5	77
14	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, 359-367.	2.8	73
15	Coronary Vasomotor Control in Obesity and Morbid Obesity. <i>JACC: Cardiovascular Imaging</i> , 2012, 5, 805-815.	5.3	69
16	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, 2860-2866.	6.5	66
17	Drug vaping applied to cannabis: Is "Cannavaping" a therapeutic alternative to marijuana?. <i>Scientific Reports</i> , 2016, 6, 25599.	3.3	65
18	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, 817-824.	2.4	61

#	ARTICLE	IF	CITATIONS
19	Advances in tissue section preparation for MALDI imaging MS. <i>Bioanalysis</i> , 2014, 6, 967-982.	1.5	56
20	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, 565-575.	2.3	56
21	Monitoring time-dependent degradation of phospholipids in sectioned tissues by MALDI imaging mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2014, 49, 622-627.	1.6	55
22	Fatty Acid Amide Hydrolase Deficiency Enhances Intraplaque Neutrophil Recruitment in Atherosclerotic Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 215-223.	2.4	52
23	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, 629-638.	1.5	51
24	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.	2.8	49
25	Iron is neurotoxic in retinal detachment and transferrin confers neuroprotection. <i>Science Advances</i> , 2019, 5, eaau9940.	10.3	48
26	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, 1337-1350.	1.5	47
27	Three-dimensional imaging MS of lipids in atherosclerotic plaques: Open-source methods for reconstruction and analysis. <i>Proteomics</i> , 2016, 16, 1642-1651.	2.2	47
28	Constant rate infusion of vancomycin in premature neonates: a new dosage schedule. <i>British Journal of Clinical Pharmacology</i> , 1998, 46, 163-167.	2.4	46
29	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, 2523-2532.	3.7	46
30	Impact of <i>CYP2D6</i> Functional Allelic Variations on Phenoconversion and Drug-Drug Interactions. <i>Clinical Pharmacology and Therapeutics</i> , 2018, 104, 148-157.	4.7	45
31	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, 284-290.	2.5	43
32	Improving Reconstituted HDL Composition for Efficient Post-Ischemic Reduction of Ischemia Reperfusion Injury. <i>PLoS ONE</i> , 2015, 10, e0119664.	2.5	40
33	Phenotyping of Human CYP450 Enzymes by Endobiotics: Current Knowledge and Methodological Approaches. <i>Clinical Pharmacokinetics</i> , 2019, 58, 1373-1391.	3.5	40
34	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.	0.7	40
35	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.	6.5	39
36	Mass spectrometry for the evaluation of cardiovascular diseases based on proteomics and lipidomics. <i>Thrombosis and Haemostasis</i> , 2011, 106, 20-33.	3.4	39

#	ARTICLE	IF	CITATIONS
37	A systematic review of passive exposure to cannabis. <i>Forensic Science International</i> , 2016, 269, 97-112.	2.2	39
38	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, 42-48.	1.6	37
39	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, 124-139.	3.4	34
40	Assessment of pathological response to therapy using lipid mass spectrometry imaging. <i>Scientific Reports</i> , 2016, 6, 36814.	3.3	34
41	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.	2.2	34
42	2-Arachidonoylglycerol mobilizes myeloid cells and worsens heart function after acute myocardial infarction. <i>Cardiovascular Research</i> , 2019, 115, 602-613.	3.8	30
43	Isotonitazene: Fatal intoxication in three cases involving this unreported novel psychoactive substance in Switzerland. <i>Forensic Science International</i> , 2021, 320, 110686.	2.2	30
44	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, 838-850.	3.4	29
45	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.	5.4	29
46	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.	3.7	28
47	Effect of progesterone on hypothalamic oxytocin messenger ribonucleic acid levels in the lactating rat. <i>Endocrinology</i> , 1995, 136, 4188-4194.	2.8	27
48	Oral Flurbiprofen Metabolic Ratio Assessment Using a Single-Point Dried Blood Spot. <i>Clinical Pharmacology and Therapeutics</i> , 2012, 91, 489-496.	4.7	27
49	Molecular imaging of matrix metalloproteinases in atherosclerotic plaques. <i>Thrombosis and Haemostasis</i> , 2012, 107, 409-416.	3.4	27
50	Metabolomics as a Tool to Understand Pathophysiological Processes. <i>Methods in Molecular Biology</i> , 2018, 1730, 3-28.	0.9	27
51	In vivo neurochemical measurements in cerebral tissues using a droplet-based monitoring system. <i>Nature Communications</i> , 2017, 8, 1239.	12.8	26
52	Trace element intakes should be revisited in burn nutrition protocols: A cohort study. <i>Clinical Nutrition</i> , 2018, 37, 958-964.	5.0	25
53	Endogenous cannabinoid receptor CB1 activation promotes vascular smooth-muscle cell proliferation and neointima formation. <i>Journal of Lipid Research</i> , 2013, 54, 1360-1368.	4.2	23
54	Separation of blood microsamples by exploiting sedimentation at the microscale. <i>Scientific Reports</i> , 2018, 8, 14101.	3.3	22

#	ARTICLE	IF	CITATIONS
55	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.	5.4	22
56	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.	5.4	20
57	Triangulating evidence from longitudinal and Mendelian randomization studies of metabolomic biomarkers for type 2 diabetes. <i>Scientific Reports</i> , 2021, 11, 6197.	3.3	18
58	Molecular composition of fingermarks: 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	17
59	In vitro and in vivo pharmacology of synthetic olivetol- or resorcinol-derived cannabinoid receptor ligands. <i>British Journal of Pharmacology</i> , 2006, 149, 431-440.	5.4	16
60	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.	3.4	16
61	Will Widespread Synthetic Opioid Consumption Induce Epigenetic Consequences in Future Generations?. <i>Frontiers in Pharmacology</i> , 2018, 9, 702.	3.5	16
62	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.	3.3	16
63	Functional characterization of the human prion protein promoter in neuronal and endothelial cells. <i>Journal of Molecular Medicine</i> , 2001, 79, 529-535.	3.9	15
64	Effect of acute physical exercise on motor sequence memory. <i>Scientific Reports</i> , 2020, 10, 15322.	3.3	15
65	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.	3.3	14
66	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.	3.4	13
67	Multiplex quantitative imaging of human myocardial infarction by mass spectrometry-immunohistochemistry. <i>International Journal of Legal Medicine</i> , 2018, 132, 1675-1684.	2.2	13
68	Potential missing steps for a wide use of dried matrix spots in biomedical analysis. <i>Bioanalysis</i> , 2015, 7, 2375-2385.	1.5	12
69	French cross-cultural adaptation of the Organizational Readiness for Implementing Change (ORIC). <i>BMC Health Services Research</i> , 2019, 19, 535.	2.2	12
70	Plasma palmitoylethanolamide (PEA) as a potential biomarker for impaired coronary function. <i>International Journal of Cardiology</i> , 2017, 231, 1-5.	1.7	11
71	Effect of progesterone on hypothalamic oxytocin messenger ribonucleic acid levels in the lactating rat. <i>Endocrinology</i> , 1995, 136, 4188-4194.	2.8	11
72	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, 81, 105333.	2.4	11

#	ARTICLE	IF	CITATIONS
73	Imaging mass spectrometry of elements in forensic cases by LA-ICP-MS. <i>International Journal of Legal Medicine</i> , 2017, 131, 497-500.	2.2	10
74	Parallel Reaction Monitoring-Based Quantification of Cannabinoids in Whole Blood. <i>Journal of Analytical Toxicology</i> , 2020, 44, 541-548.	2.8	10
75	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.	2.3	10
76	Cadmium acute exposure induces metabolic and transcriptomic perturbations in human mature adipocytes. <i>Toxicology</i> , 2022, 470, 153153.	4.2	10
77	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.	3.4	9
78	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.	4.3	9
79	In situ metabolomic changes in rat hippocampus after acute cocaine administration. <i>International Journal of Mass Spectrometry</i> , 2019, 437, 87-91.	1.5	8
80	Ambulatory Blood Pressure in Relation to Plasma and Urinary Manganese. <i>Hypertension</i> , 2020, 75, 1133-1139.	2.7	8
81	Consommation de cannabis: quels sont les risques? <i>Toxicologie Analytique Et Clinique</i> , 2008, 20, 183-205.	0.1	8
82	High-Throughput Qualitative and Quantitative Drug Checking by MALDI HRMS. <i>Frontiers in Chemistry</i> , 2020, 8, 695.	3.6	7
83	Development of a printed quality control test strip for the analysis and imaging of fingerprint composition. <i>Forensic Science International</i> , 2021, 329, 111063.	2.2	7
84	Beneficial Effects of Human Mesenchymal Stromal Cells on Porcine Hepatocyte Viability and Albumin Secretion. <i>Journal of Immunology Research</i> , 2018, 2018, 1-13.	2.2	6
85	Detecting early myocardial ischemia in rat heart by MALDI imaging mass spectrometry. <i>Scientific Reports</i> , 2021, 11, 5135.	3.3	6
86	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.	2.3	6
87	Toxicity and Metabolomic Impact of Cobalt, Chromium, and Nickel Exposure on HepaRG Hepatocytes. <i>Chemical Research in Toxicology</i> , 2022, 35, 807-816.	3.3	6
88	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.	2.2	5
89	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.	6.5	5
90	A cheminformatics 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.	5.5	5

#	ARTICLE	IF	CITATIONS
91	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.	5.2	4
92	Driving Under the Influence of Drugs: A Single Parallel Monitoring-Based Quantification Approach on Whole Blood. <i>Frontiers in Chemistry</i> , 2020, 8, 626.	3.6	4
93	Local Cisplatin Delivery in Mouse Reliably Models Sensorineural Ototoxicity Without Systemic Adverse Effects. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 701783.	3.7	4
94	Chemical composition of the fingermark residue: Assessment of the intravariability over one year using MALDI-MSI. <i>Forensic Science International</i> , 2022, 338, 111380.	2.2	4
95	High-density lipoprotein-associated sphingosine-1-phosphate activity in heterozygous familial hypercholesterolaemia. <i>European Journal of Clinical Investigation</i> , 2017, 47, 38-43.	3.4	3
96	The 1 β -Hydroxy-Deoxycholic Acid to Deoxycholic Acid Urinary Metabolic Ratio: Toward a Phenotyping of CYP3A Using an Endogenous Marker?. <i>Journal of Personalized Medicine</i> , 2021, 11, 150.	2.5	3
97	Evaluation of CYP1A2 activity: Relationship between the endogenous urinary 6-hydroxymelatonin to melatonin ratio and paraxanthine to caffeine ratio in dried blood spots. <i>Clinical and Translational Science</i> , 2022, 15, 1482-1491.	3.1	3
98	The Allelic Variant A391T of Metal Ion Transporter ZIP8 (SLC39A8) Leads to Hypotension and Enhanced Insulin Resistance. <i>Frontiers in Physiology</i> , 0, 13, .	2.8	3
99	(MA)LDI MS Imaging at High Specificity and Sensitivity. , 2016, , 129-147.		2
100	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.	3.1	2
101	Sphingosine-1-phosphate as a key player of insulin secretion induced by high-density lipoprotein treatment. <i>Physiological Reports</i> , 2021, 9, e14786.	1.7	1
102	Evaluation of antiretroviral therapy on metabolomics and atherogenic markers in HIV patients. <i>European Heart Journal</i> , 2020, 41, .	2.2	1
103	HIV-infected patients display increased proatherogenic anti-apolipoprotein A1 autoantibodies, inflammatory and metabolomic markers. <i>European Heart Journal</i> , 2021, 42, .	2.2	1
104	Omics in Forensic Toxicology a Bridge Towards Forensic Medicine. , 2017, , 475-485.		0
105	D π sorption en ligne de spots de sang s π ch π : une approche int π ressante pour l π analyse par LC-MS/MS de micro π chantillons de sang. <i>Toxicologie Analytique Et Clinique</i> , 2010, 22, 103-107.	0.1	0