Elizabeth J Want

List of Publications by Year
in descending order

68	12,810	109264 35	95218 68
papers	citations	h-index	g-index

69	69	69	17305
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	XCMS:â€‰ Processing Mass Spectrometry Data for Metabolite Profiling Using Nonlinear Peak Alignment, Matching, and Identification. Analytical Chemistry, 2006, 78, 779-787.	3.2	4,128
2	METLIN. Therapeutic Drug Monitoring, 2005, 27, 747-751.	1.0	1,960
3	Global metabolic profiling procedures for urine using UPLCâ€“MS. Nature Protocols, 2010, 5, 1005-1018.	5.5	867
4	Global metabolic profiling of animal and human tissues via UPLC-MS. Nature Protocols, 2013, 8, 17-32.	5.5	774
5	Liquid chromatographyâ€“mass spectrometry based global metabolite profiling: A review. Analytica Chimica Acta, 2012, 711, 7-16.	2.6	452
6	Solvent-Dependent Metabolite Distribution, Clustering, and Protein Extraction for Serum Profiling with Mass Spectrometry. Analytical Chemistry, 2006, 78, 743-752.	3.2	414
7	Colonization-Induced Host-Gut Microbial Metabolic Interaction. MBio, 2011, 2, e00271-10.	1.8	342
8	Assignment of Endogenous Substrates to Enzymes by Global Metabolite Profiling. Biochemistry, 2004, 43, 14332-14339.	1.2	302
9	The Human Early-Life Exposome (HELIX): Project Rationale and Design. Environmental Health Perspectives, 2014, 122, 535-544.	2.8	280
10	From Exogenous to Endogenous:Â The Inevitable Imprint of Mass Spectrometry in Metabolomics. Journal of Proteome Research, 2007, 6, 459-468.	1.8	254
11	Optimized Preprocessing of Ultra-Performance Liquid Chromatography/Mass Spectrometry Urinary Metabolic Profiles for Improved Information Recovery. Analytical Chemistry, 2011, 83, 5864-5872.	3.2	240
12	The Expanding Role of Mass Spectrometry in Metabolite Profiling and Characterization. ChemBioChem, 2005, 6, 1941-1951.	1.3	198
13	Multiple Ionization Mass Spectrometry Strategy Used To Reveal the Complexity of Metabolomics. Analytical Chemistry, 2008, 80, 421-429.	3.2	182
14	Untargeted UPLC-MS Profiling Pipeline to Expand Tissue Metabolome Coverage: Application to Cardiovascular Disease. Analytical Chemistry, 2015, 87, 4184-4193.	3.2	161
15	Optimization and Evaluation of Metabolite Extraction Protocols for Untargeted Metabolic Profiling of Liver Samples by UPLC-MS. Analytical Chemistry, 2010, 82, 7779-7786.	3.2	160
16	HILIC-UPLC-MS for Exploratory Urinary Metabolic Profiling in Toxicological Studies. Analytical Chemistry, 2011, 83, 382-390.	3.2	135
17	Optimizing the Use of Quality Control Samples for Signal Drift Correction in Large-Scale Urine Metabolic Profiling Studies. Analytical Chemistry, 2012, 84, 2670-2677.	3.2	127
18	Cross-Platform Comparison of Caenorhabditis elegans Tissue Extraction Strategies for Comprehensive Metabolome Coverage. Analytical Chemistry, 2011, 83, 3730-3736.	3.2	112

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19	The Metabolomic Responses of Caenorhabditis elegans to Cadmium Are Largely Independent of Metallothionein Status, but Dominated by Changes in Cystathionine and Phytochelatins. Journal of Proteome Research, 2009, 8, 3512-3519.	1.8	107
20	Determinants of the urinary and serum metabolome in children from six European populations. BMC Medicine, 2018, 16, 202.	2.3	107
21	Sexual transfer of the steroid hormone 20E induces the postmating switch in Anopheles gambiae. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16353-16358.	3.3	102
22	UPLC-MS metabolic profiling of second trimester amniotic fluid and maternal urine and comparison with NMR spectral profiling for the identification of pregnancy disorder biomarkers. Molecular BioSystems, 2012, 8, 1243.	2.9	94
23	Ultra Performance Liquid Chromatography-Mass Spectrometry Profiling of Bile Acid Metabolites in Biofluids: Application to Experimental Toxicology Studies. Analytical Chemistry, 2010, 82, 5282-5289.	3.2	89
24	Multivariate metabotyping of plasma predicts survival in patients with decompensated cirrhosis. Journal of Hepatology, 2016, 64, 1058-1067.	1.8	77
25	Processing and Analysis of GC/LC-MS-Based Metabolomics Data. Methods in Molecular Biology, 2011, 708, 277-298.	0.4	71
26	Metabolic Phenotyping of Atherosclerotic Plaques Reveals Latent Associations between Free Cholesterol and Ceramide Metabolism in Atherogenesis. Journal of Proteome Research, 2015, 14, 1389-1399.	1.8	65
27	A randomised trial of a medium-chain TAG diet as treatment for dogs with idiopathic epilepsy. British Journal of Nutrition, 2015, 114, 1438-1447.	1.2	61
28	From Samples to Insights into Metabolism: Uncovering Biologically Relevant Information in LC-HRMS Metabolomics Data. Metabolites, 2019, 9, 308.	1.3	61
29	Sepsis Plasma Protein Profiling with Immunodepletion, Three-Dimensional Liquid Chromatography Tandem Mass Spectrometry, and Spectrum Counting. Journal of Proteome Research, 2006, 5, 3154-3160.	1.8	58
30	Technical and Biological Variation in UPLCâ^'MS-Based Untargeted Metabolic Profiling of Liver Extracts: Application in an Experimental Toxicity Study on Galactosamine. Analytical Chemistry, 2011, 83, 1116-1123.	3.2	53
31	Intra- and Interlaboratory Reproducibility of Ultra Performance Liquid Chromatographyâ€“Time-of-Flight Mass Spectrometry for Urinary Metabolic Profiling. Analytical Chemistry, 2012, 84, 2424-2432.	3.2	44
32	Systematic Evaluation of Extraction Methods for Multiplatform-Based Metabotyping: Application to the Fasciola hepatica Metabolome. Analytical Chemistry, 2012, 84, 6963-6972.	3.2	41
33	Hirmi Valley liver disease: A disease associated with exposure to pyrrolizidine alkaloids and DDT. Journal of Hepatology, 2014, 60, 96-102.	1.8	41
34	Mechanistic Aspects and Novel Biomarkers of Responder and Non-Responder Phenotypes in Galactosamine-Induced Hepatitis. Journal of Proteome Research, 2009, 8, 5175-5187.	1.8	39
35	Heart 7-Hydroperoxycholesterol and Oxysterols Are Elevated in Chronically Ethanol-Fed Rats. Journal of Nutrition, 2001, 131, 2916-2920.	1.3	37
36	In Vitro Modeling of Bile Acid Processing by the Human Fecal Microbiota. Frontiers in Microbiology, 2018, 9, 1153.	1.5	36

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37	Plasma Metabolomic Profiles of Breast Cancer Patients after Short-term Limonene Intervention. Cancer Prevention Research, 2015, 8, 86-93.	0.7	34
38	Efficacy of arginine depletion by ADI-PEG20 in an intracranial model of GBM. Cell Death and Disease, 2018, 9, 1192.	2.7	34
39	Large-Scale Human Metabolic Phenotyping and Molecular Epidemiological Studies via ¹H NMR Spectroscopy of Urine: Investigation of Borate Preservation. Analytical Chemistry, 2009, 81, 4847-4856.	3.2	32
40	Biomarkers for NeuroAIDS: The Widening Scope of Metabolomics. Journal of NeuroImmune Pharmacology, 2007, 2, 72-80.	2.1	31
41	Optimization of metabolite extraction of human vein tissue for ultra performance liquid chromatography-mass spectrometry and nuclear magnetic resonance-based untargeted metabolic profiling. Analyst, The, 2015, 140, 7586-7597.	1.7	30
42	Assessment of metabolic phenotypic variability in childrenâ€™s urine using 1H NMR spectroscopy. Scientific Reports, 2017, 7, 46082.	1.6	30
43	Metabolic perturbations associated with the consumption of a ketogenic medium-chain TAG diet in dogs with idiopathic epilepsy. British Journal of Nutrition, 2018, 120, 484-490.	1.2	30
44	Perturbations in fatty acid metabolism and apoptosis are manifested in calcific coronary artery disease: An exploratory lipidomic study. International Journal of Cardiology, 2015, 197, 192-199.	0.8	29
45	LC-MS Untargeted Analysis. Methods in Molecular Biology, 2018, 1738, 99-116.	0.4	27
46	A Statistically Rigorous Test for the Identification of Parentâ^'Fragment Pairs in LC-MS Datasets. Analytical Chemistry, 2010, 82, 1766-1778.	3.2	26
47	Systems Biology of Human Atherosclerosis. Vascular and Endovascular Surgery, 2014, 48, 5-17.	0.3	26
48	Seminal Oligouridinosis: Low Uridine Secretion as a Biomarker for Infertility in Spinal Neurotrauma. Clinical Chemistry, 2008, 54, 2063-2066.	1.5	21
49	Metabolomics relative quantitation with mass spectrometry using chemical derivatization and isotope labeling. Spectroscopy, 2008, 22, 327-343.	0.8	18
50	Automated Annotation of Untargeted All-Ion Fragmentation LCâ€“MS Metabolomics Data with MetaboAnnotatoR. Analytical Chemistry, 2022, 94, 3446-3455.	3.2	18
51	Challenges in applying chemometrics to LCâ€“MS-based global metabolite profile data. Bioanalysis, 2009, 1, 805-819.	0.6	16
52	Intra-operative, real-time, three-dimensional ultrasound assisted positioning of catheters in the microdialysis of glial tumours. Journal of Clinical Neuroscience, 2010, 17, 506-510.	0.8	14
53	Hippocampal Proteomic and Metabonomic Abnormalities in Neurotransmission, Oxidative Stress, and Apoptotic Pathways in a Chronic Phencyclidine Rat Model. Journal of Proteome Research, 2015, 14, 3174-3187.	1.8	14
54	The Effects of a Ketogenic Medium-Chain Triglyceride Diet on the Feces in Dogs With Idiopathic Epilepsy. Frontiers in Veterinary Science, 2020, 7, 541547.	0.9	14

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55	Metabolic Profiling in Disease Diagnosis, Toxicology and Personalized Healthcare. Current Pharmaceutical Biotechnology, 2011, 12, 976-995.	0.9	12
56	Development of a novel UHPLC-MS/MS-based platform to quantify amines, amino acids and methylarginines for applications in human disease phenotyping. Scientific Reports, 2018, 8, 13987.	1.6	12
57	Metabolomic profiling of amines in sepsis predicts changes in NOS canonical pathways. PLoS ONE, 2017, 12, e0183025.	1.1	12
58	Construction of Confidence Regions for Isotopic Abundance Patterns in LC/MS Data Sets for Rigorous Determination of Molecular Formulas. Analytical Chemistry, 2010, 82, 7319-7328.	3.2	10
59	Plasma Lipid Profiling in a Rat Model of Hepatocellular Carcinoma: Potential Modulation Through Quinolone Administration. Journal of Clinical and Experimental Hepatology, 2015, 5, 286-294.	0.4	10
60	Microdialysis Workflow for Metabotyping Superficial Pathologies: Application to Burn Injury. Analytical Chemistry, 2019, 91, 6541-6548.	3.2	9
61	The application of mass spectrometry in pharmacokinetics studies. Spectroscopy, 2003, 17, 681-691.	0.8	5
62	Leptin and fractalkine: Novel subcutaneous cytokines in burn injury. DMM Disease Models and Mechanisms, 2020, 13, .	1.2	5
63	Lipid profiling of mouse intestinal organoids for studying APC mutations. Bioscience Reports, 2021, 41, .	1.1	5
64	Ion-Pairing Chromatography and Amine Derivatization Provide Complementary Approaches for the Targeted LC-MS Analysis of the Polar Metabolome. Journal of Proteome Research, 2022, 21, 1428-1437.	1.8	5
65	Response to Comment on â€œOptimized Preprocessing of Ultra-Performance Liquid Chromatography/Mass Spectrometry Urinary Metabolic Profiles for Improved Information Recoveryâ€• Analytical Chemistry, 2011, 83, 9721-9722.	3.2	2
66	Mass spectrometry in high throughput analysis. Spectroscopy, 2003, 17, 663-680.	0.8	1
67	Global metabolic changes induced by plant-derived pyrrolizidine alkaloids following a human poisoning outbreak and in a mouse model. Toxicology Research, 2016, 5, 1594-1603.	0.9	1
68	Metabolomics in Advanced Liver Disease. Current Treatment Options in Gastroenterology, 2021, 19, 380-397.	0.3	1