Caroline H Johnson

List of Publications by Year
in descending order

78 papers	6,563 citations	93792 39 h-index	81351 76 g-index
90 all docs	90 docs citations	90 times ranked	11545 citing authors

#	Article	IF	Citations
1	Metabolomics: beyond biomarkers and towards mechanisms. Nature Reviews Molecular Cell Biology, 2016, 17, 451-459.	16.1	1,723
2	Liquid chromatography quadrupole time-of-flight mass spectrometry characterization of metabolites guided by the METLIN database. Nature Protocols, 2013, 8, 451-460.	5.5	379
3	Interactive XCMS Online: Simplifying Advanced Metabolomic Data Processing and Subsequent Statistical Analyses. Analytical Chemistry, 2014, 86, 6931-6939.	3.2	332
4	Metabolism Links Bacterial Biofilms and Colon Carcinogenesis. Cell Metabolism, 2015, 21, 891-897.	7.2	288
5	Toward â€˜Omic Scale Metabolite Profiling: A Dual Separationâ€“Mass Spectrometry Approach for Coverage of Lipid and Central Carbon Metabolism. Analytical Chemistry, 2013, 85, 6876-6884.	3.2	242
6	Challenges and opportunities of metabolomics. Journal of Cellular Physiology, 2012, 227, 2975-2981.	2.0	211
7	Xenobiotic Metabolomics: Major Impact on the Metabolome. Annual Review of Pharmacology and Toxicology, 2012, 52, 37-56.	4.2	209
8	Systems biology guided by XCMS Online metabolomics. Nature Methods, 2017, 14, 461-462.	9.0	168
9	Autonomous Metabolomics for Rapid Metabolite Identification in Global Profiling. Analytical Chemistry, 2015, 87, 884-891.	3.2	157
10	Microsomal triglyceride transfer protein lipidation and control of CD1d on antigen-presenting cells. Journal of Experimental Medicine, 2005, 202, 529-539.	4.2	142
11	Thermal Degradation of Small Molecules: A Global Metabolomic Investigation. Analytical Chemistry, 2015, 87, 10935-10941.	3.2	112
12	Bioinformatics: The Next Frontier of Metabolomics. Analytical Chemistry, 2015, 87, 147-156.	3.2	112
13	Optimization of harvesting, extraction, and analytical protocols for UPLC-ESI-MS-based metabolomic analysis of adherent mammalian cancer cells. Analytical and Bioanalytical Chemistry, 2013, 405, 5279-5289.	1.9	106
14	Exposome-Scale Investigations Guided by Global Metabolomics, Pathway Analysis, and Cognitive Computing. Analytical Chemistry, 2017, 89, 11505-11513.	3.2	106
15	Spontaneous DNA damage to the nuclear genome promotes senescence, redox imbalance and aging. Redox Biology, 2018, 17, 259-273.	3.9	103
16	Radiation Metabolomics. 4. UPLC-ESI-QTOFMS-Based Metabolomics for Urinary Biomarker Discovery in Gamma-Irradiated Rats. Radiation Research, 2011, 175, 473-484.	0.7	92
17	Radiation Metabolomics. 5. Identification of Urinary Biomarkers of Ionizing Radiation Exposure in Nonhuman Primates by Mass Spectrometry-Based Metabolomics. Radiation Research, 2012, 178, 328.	0.7	88
18	A View from Above: Cloud Plots to Visualize Global Metabolomic Data. Analytical Chemistry, 2013, 85, 798-804.	3.2	85

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19	Metabolite and Microbiome Interplay in Cancer Immunotherapy. Cancer Research, 2016, 76, 6146-6152.	0.4	85
20	1,4-Dioxane as an emerging water contaminant: State of the science and evaluation of research needs. Science of the Total Environment, 2019, 690, 853-866.	3.9	85
21	Global metabolomics reveals metabolic dysregulation in ischemic retinopathy. Metabolomics, 2016, 12, 15.	1.4	80
22	Beyond genomics: understanding exposotypes through metabolomics. Human Genomics, 2018, 12, 4.	1.4	73
23	Metabolic dysregulation in vitaminÂE and carnitine shuttle energy mechanisms associate with human frailty. Nature Communications, 2019, 10, 5027.	5.8	70
24	Arteriovenous Blood Metabolomics: A Readout of Intra-Tissue Metabostasis. Scientific Reports, 2015, 5, 12757.	1.6	62
25	Implication of intestinal VDR deficiency in inflammatory bowel disease. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 2118-2128.	1.1	60
26	Intratumour microbiome associated with the infiltration of cytotoxic CD8+ T cells and patient survival in cutaneous melanoma. European Journal of Cancer, 2021, 151, 25-34.	1.3	59
27	Kynurenic acid may underlie sex-specific immune responses to COVID-19. Science Signaling, 2021, 14, .	1.6	58
28	Carnitine palmitoyltransferase 1C regulates cancer cell senescence through mitochondria-associated metabolic reprograming. Cell Death and Differentiation, 2018, 25, 735-748.	5.0	53
29	Metabolomics Reveals that Dietary Xenoestrogens Alter Cellular Metabolism Induced by Palbociclib/Letrozole Combination Cancer Therapy. Cell Chemical Biology, 2018, 25, 291-300.e3.	2.5	52
30	N-methylnicotinamide and nicotinamide N-methyltransferase are associated with microRNA-1291-altered pancreatic carcinoma cell metabolome and suppressed tumorigenesis. Carcinogenesis, 2014, 35, 2264-2272.	1.3	51
31	Transfer of cholesteryl esters and phospholipids as well as net deposition by microsomal triglyceride transfer protein. Journal of Lipid Research, 2005, 46, 1779-1785.	2.0	50
32	Comprehensive bioimaging with fluorinated nanoparticles using breathable liquids. Nature Communications, 2015, 6, 5998.	5.8	50
33	Novel metabolites and roles for Î±-tocopherol in humans and mice discovered by mass spectrometryâ€“based metabolomics. American Journal of Clinical Nutrition, 2012, 96, 818-830.	2.2	49
34	Evaluation of potential carcinogenicity of organic chemicals in synthetic turf crumb rubber. Environmental Research, 2019, 169, 163-172.	3.7	48
35	Environmental Influences in the Etiology of Colorectal Cancer: the Premise of Metabolomics. Current Pharmacology Reports, 2017, 3, 114-125.	1.5	46
36	PPARÎ± regulates tumor cell proliferation and senescence via a novel target gene carnitine palmitoyltransferase 1C. Carcinogenesis, 2017, 38, 474-483.	1.3	46

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37	NMR Spectroscopic Studies on the in Vitro Acyl Glucuronide Migration Kinetics of Ibuprofen ((Â±)-(R,S)-2-(4-Isobutylphenyl) Propanoic Acid), Its Metabolites, and Analogues. Analytical Chemistry, 2007, 79, 8720-8727.	3.2	45
38	Metabolomic data streaming for biology-dependent data acquisition. Nature Biotechnology, 2014, 32, 524-527.	9.4	45
39	Monitoring metabolic responses to chemotherapy in single cells and tumors using nanostructure-initiator mass spectrometry (NIMS) imaging. Cancer & Metabolism, 2013, 1, 4.	2.4	43
40	Defining Early-Onset Colon and Rectal Cancers. Frontiers in Oncology, 2018, 8, 504.	1.3	43
41	Immune landscape and prognostic immune-related genes in KRAS-mutant colorectal cancer patients. Journal of Translational Medicine, 2021, 19, 27.	1.8	43
42	Non-targeted metabolomics and associations with per- and polyfluoroalkyl substances (PFAS) exposure in humans: A scoping review. Environment International, 2022, 162, 107159.	4.8	43
43	Sex Differences in Colon Cancer Metabolism Reveal A Novel Subphenotype. Scientific Reports, 2020, 10, 4905.	1.6	41
44	Targeted Metabolomics of Serum Acylcarnitines Evaluates Hepatoprotective Effect of Wuzhi Tablet (Schisandra sphenantheraExtract) against Acute Acetaminophen Toxicity. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-13.	0.5	35
45	Kinetic and J-Resolved Statistical Total Correlation NMR Spectroscopy Approaches to Structural Information Recovery in Complex Reacting Mixtures: Application to Acyl Glucuronide Intramolecular Transacylation Reactions. Analytical Chemistry, 2008, 80, 4886-4895.	3.2	32
46	Normalizing Untargeted Periconceptional Urinary Metabolomics Data: A Comparison of Approaches. Metabolites, 2019, 9, 198.	1.3	30
47	Integrated HPLC-MS and¹H-NMR spectroscopic studies on acyl migration reaction kinetics of model drug ester glucuronides. Xenobiotica, 2010, 40, 9-23.	0.5	26
48	Synthesis, transacylation kinetics and computational chemistry of a set of arylacetic acid 1Î²-O-acyl glucuronides. Organic and Biomolecular Chemistry, 2009, 7, 2525.	1.5	25
49	Cytochrome P450 Regulation by Î±-Tocopherol in Pxr-Null and PXR-Humanized Mice. Drug Metabolism and Disposition, 2013, 41, 406-413.	1.7	25
50	Synthesis of a series of phenylacetic acid 1-Î²-O-acyl glucosides and comparison of their acyl migration and hydrolysis kinetics with the corresponding acyl glucuronides. Organic and Biomolecular Chemistry, 2011, 9, 926-934.	1.5	20
51	Use of Untargeted Metabolomics to Explore the Air Pollution-Related Disease Continuum. Current Environmental Health Reports, 2021, 8, 7-22.	3.2	19
52	Global Metabolomics Reveals Urinary Biomarkers of Breast Cancer in a MCF-7 Xenograft Mouse Model. Metabolites, 2013, 3, 658-672.	1.3	18
53	Metabolomics guided pathway analysis reveals link between cancer metastasis, cholesterol sulfate, and phospholipids. Cancer & Metabolism, 2017, 5, 9.	2.4	18
54	Molecular Mechanisms of Alcohol-Induced Colorectal Carcinogenesis. Cancers, 2021, 13, 4404.	1.7	18

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55	Tumor Tissue-Specific Biomarkers of Colorectal Cancer by Anatomic Location and Stage. Metabolites, 2020, 10, 257.	1.3	16
56	Evaluation of Racial Disparities in Quality of Care for Patients With Gastrointestinal Tract Cancer Treated With Surgery. JAMA Network Open, 2022, 5, e225664.	2.8	16
57	Metabolomics reveals mycoplasma contamination interferes with the metabolism of PANC-1 cells. Analytical and Bioanalytical Chemistry, 2016, 408, 4267-4273.	1.9	15
58	Molecular Pathway Analysis Indicates a Distinct Metabolic Phenotype in Women With Right-Sided Colon Cancer. Translational Oncology, 2020, 13, 42-56.	1.7	14
59	Highâ€performance liquid chromatography/mass spectrometric and proton nuclear magnetic resonance spectroscopic studies of the transacylation and hydrolysis of the acyl glucuronides of a series of phenylacetic acids in buffer and human plasma. Rapid Communications in Mass Spectrometry, 2010, 24, 3043-3051.	0.7	13
60	YIV-906 potentiated anti-PD1 action against hepatocellular carcinoma by enhancing adaptive and innate immunity in the tumor microenvironment. Scientific Reports, 2021, 11, 13482.	1.6	13
61	Gene Alterations of N6-Methyladenosine (m6A) Regulators in Colorectal Cancer: A TCGA Database Study. BioMed Research International, 2020, 2020, 1-13.	0.9	13
62	Re-engineering and evaluation of anti-DNA autoantibody 3E10 for therapeutic applications. Biochemical and Biophysical Research Communications, 2018, 496, 858-864.	1.0	12
63	Distinctive features of gastrointestinal stromal tumors arising from the colon and rectum. Journal of Gastrointestinal Oncology, 2018, 9, 231-240.	0.6	11
64	Palbociclib and Fulvestrant Act in Synergy to Modulate Central Carbon Metabolism in Breast Cancer Cells. Metabolites, 2019, 9, 7.	1.3	10
65	Identification of Dose-Dependent DNA Damage and Repair Responses From Subchronic Exposure to 1,4-Dioxane in Mice Using a Systems Analysis Approach. Toxicological Sciences, 2021, 183, 338-351.	1.4	10
66	Joint effect of pre-operative anemia and perioperative blood transfusion on outcomes of colon-cancer patients undergoing colectomy. Gastroenterology Report, 2020, 8, 151-157.	0.6	9
67	Analyzing Metabolomics Data for Environmental Health and Exposome Research. Methods in Molecular Biology, 2020, 2104, 447-467.	0.4	9
68	Alterations in Spinal Cord Metabolism during Treatment of Neuropathic Pain. Journal of NeuroImmune Pharmacology, 2015, 10, 396-401.	2.1	8
69	Determining conserved metabolic biomarkers from a million database queries. Bioinformatics, 2015, 31, 3721-3724.	1.8	8
70	Asparagine Metabolism in Tumors Is Linked to Poor Survival in Females with Colorectal Cancer: A Cohort Study. Metabolites, 2022, 12, 164.	1.3	8
71	Development of an Accessible Gene Expression Bioinformatics Pipeline to Study Driver Mutations of Colorectal Cancer. ATLA Alternatives To Laboratory Animals, 2022, 50, 282-292.	0.7	6
72	Luciferase does not alter metabolism in cancer cells. Metabolomics, 2014, 10, 354-360.	1.4	5

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73	ENT2 facilitates brain endothelial cell penetration and blood-brain barrier transport by a tumor-targeting anti-DNA autoantibody. JCI Insight, 2021, 6, .	2.3	4
74	Accounting for urinary dilution in peri-implantation samples: implications for creatinine adjustment and specimen pooling. Journal of Exposure Science and Environmental Epidemiology, 2021, 31, 356-365.	1.8	4
75	The -Omics in Drug Development. , 2011, , 145-173.		1
76	64. AN ENT2-DEPENDENT, CELL-PENETRATING, AND DNA-DAMAGING LUPUS AUTOANTIBODY CROSSES THE BLOOD-BRAIN BARRIER TO TARGET BRAIN TUMORS. Neuro-Oncology Advances, 2020, 2, ii13-ii13.	0.4	0
77	Non-targeted metabolomics in evaluating alterations associated with per-fluoroalkyl and polyfluoroalkyl substances (PFAS) exposure in human studies: a scoping review. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
78	HSR22-125: Quality of Gastrointestinal Surgical Oncology Care According to Insurance Status. Journal of the National Comprehensive Cancer Network: JNCCN, 2022, 20, HSR22-125.	2.3	0