

Douglas I Walker

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.

75
papers

2,207
citations

28
h-index

45
g-index

87
ext. papers

3,022
ext. citations

6.5
avg, IF

5.14
L-index

#	Paper	IF	Citations
75	Honokiol blocks and reverses cardiac hypertrophy in mice by activating mitochondrial Sirt3. <i>Nature Communications</i> , 2015 , 6, 6656	17.4	241
74	xMSannotator: An R Package for Network-Based Annotation of High-Resolution Metabolomics Data. <i>Analytical Chemistry</i> , 2017 , 89, 1063-1067	7.8	155
73	Computational Metabolomics: A Framework for the Million Metabolome. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1956-1975	4	130
72	Reference Standardization for Mass Spectrometry and High-resolution Metabolomics Applications to Exposome Research. <i>Toxicological Sciences</i> , 2015 , 148, 531-43	4.4	123
71	Plasma metabolomics in human pulmonary tuberculosis disease: a pilot study. <i>PLoS ONE</i> , 2014 , 9, e108854	3.7	98
70	The Exposome: Molecules to Populations. <i>Annual Review of Pharmacology and Toxicology</i> , 2019 , 59, 107-127	12.7	92
69	Serum metabolomics of slow vs. rapid motor progression Parkinson's disease: a pilot study. <i>PLoS ONE</i> , 2013 , 8, e77629	3.7	87
68	High-resolution metabolomics of occupational exposure to trichloroethylene. <i>International Journal of Epidemiology</i> , 2016 , 45, 1517-1527	7.8	68
67	Use of high-resolution metabolomics for the identification of metabolic signals associated with traffic-related air pollution. <i>Environment International</i> , 2018 , 120, 145-154	12.9	67
66	Perfluoroalkyl substances, metabolomic profiling, and alterations in glucose homeostasis among overweight and obese Hispanic children: A proof-of-concept analysis. <i>Environment International</i> , 2019 , 126, 445-453	12.9	54
65	Perturbations of the arginine metabolome following exposures to traffic-related air pollution in a panel of commuters with and without asthma. <i>Environment International</i> , 2019 , 127, 503-513	12.9	48
64	Perfluoroalkyl substances and severity of nonalcoholic fatty liver in Children: An untargeted metabolomics approach. <i>Environment International</i> , 2020 , 134, 105220	12.9	48
63	Metabolomic assessment of exposure to near-highway ultrafine particles. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019 , 29, 469-483	6.7	46
62	Exposure to the polybrominated diphenyl ether mixture DE-71 damages the nigrostriatal dopamine system: role of dopamine handling in neurotoxicity. <i>Experimental Neurology</i> , 2013 , 241, 138-47	5.7	45
61	Reference Standardization for Quantification and Harmonization of Large-Scale Metabolomics. <i>Analytical Chemistry</i> , 2020 , 92, 8836-8844	7.8	44
60	Metabolome-Wide Association Study of Primary Open Angle Glaucoma 2015 , 56, 5020-8		41
59	Human Suction Blister Fluid Composition Determined Using High-Resolution Metabolomics. <i>Analytical Chemistry</i> , 2018 , 90, 3786-3792	7.8	39

58	High-Resolution Metabolomics Assessment of Military Personnel: Evaluating Analytical Strategies for Chemical Detection. <i>Journal of Occupational and Environmental Medicine</i> , 2016 , 58, S53-61	2	39
57	Targeting soluble tumor necrosis factor as a potential intervention to lower risk for late-onset Alzheimer's disease associated with obesity, metabolic syndrome, and type 2 diabetes. <i>Alzheimer's Research and Therapy</i> , 2019 , 12, 1	9	39
56	Maternal serum metabolome and traffic-related air pollution exposure in pregnancy. <i>Environment International</i> , 2019 , 130, 104872	12.9	37
55	Metabolome-wide association study of phenylalanine in plasma of common marmosets. <i>Amino Acids</i> , 2015 , 47, 589-601	3.5	36
54	Disturbed flow induces systemic changes in metabolites in mouse plasma: a metabolomics study using ApoE ^{-/-} mice with partial carotid ligation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 308, R62-72	3.2	35
53	High-Resolution Metabolomics for Nutrition and Health Assessment of Armed Forces Personnel. <i>Journal of Occupational and Environmental Medicine</i> , 2016 , 58, S80-8	2	32
52	Plasma metabolomics in adults with cystic fibrosis during a pulmonary exacerbation: A pilot randomized study of high-dose vitamin D administration. <i>Metabolism: Clinical and Experimental</i> , 2017 , 70, 31-41	12.7	30
51	Deployment-Associated Exposure Surveillance With High-Resolution Metabolomics. <i>Journal of Occupational and Environmental Medicine</i> , 2016 , 58, S12-21	2	30
50	The Metabolome: a Key Measure for Exposome Research in Epidemiology. <i>Current Epidemiology Reports</i> , 2019 , 6, 93-103	2.9	29
49	Metabolomics of childhood exposure to perfluoroalkyl substances: a cross-sectional study. <i>Metabolomics</i> , 2019 , 15, 95	4.7	28
48	Particulate metal exposures induce plasma metabolome changes in a commuter panel study. <i>PLoS ONE</i> , 2018 , 13, e0203468	3.7	28
47	Dysregulated lipid and fatty acid metabolism link perfluoroalkyl substances exposure and impaired glucose metabolism in young adults. <i>Environment International</i> , 2020 , 145, 106091	12.9	27
46	Pilot Metabolome-Wide Association Study of Benzo(a)pyrene in Serum From Military Personnel. <i>Journal of Occupational and Environmental Medicine</i> , 2016 , 58, S44-52	2	26
45	Metabolomic profiles of plasma, exhaled breath condensate, and saliva are correlated with potential for air toxics detection. <i>Journal of Breath Research</i> , 2017 , 12, 016008	3.1	24
44	High-resolution metabolomic profiling of Alzheimer's disease in plasma. <i>Annals of Clinical and Translational Neurology</i> , 2020 , 7, 36-45	5.3	24
43	High-resolution plasma metabolomics analysis to detect Mycobacterium tuberculosis-associated metabolites that distinguish active pulmonary tuberculosis in humans. <i>PLoS ONE</i> , 2018 , 13, e0205398	3.7	24
42	Metabolome-wide association study of anti-epileptic drug treatment during pregnancy. <i>Toxicology and Applied Pharmacology</i> , 2019 , 363, 122-130	4.6	23
41	ADAP-GC 4.0: Application of Clustering-Assisted Multivariate Curve Resolution to Spectral Deconvolution of Gas Chromatography-Mass Spectrometry Metabolomics Data. <i>Analytical Chemistry</i> , 2019 , 91, 9069-9077	7.8	21

40	Population Screening for Biological and Environmental Properties of the Human Metabolic Phenotype 2016 , 167-211		18
39	ADAP-GC 3.2: Graphical Software Tool for Efficient Spectral Deconvolution of Gas Chromatography-High-Resolution Mass Spectrometry Metabolomics Data. <i>Journal of Proteome Research</i> , 2018 , 17, 470-478	5.6	17
38	Untargeted metabolomics reveals multiple metabolites influencing smoking-related DNA methylation. <i>Epigenomics</i> , 2018 , 10, 379-393	4.4	16
37	Association of Untargeted Urinary Metabolomics and Lung Cancer Risk Among Never-Smoking Women in China. <i>JAMA Network Open</i> , 2019 , 2, e1911970	10.4	15
36	Hydrolyzed Poly(acrylonitrile) Electrospun Ion-Exchange Fibers. <i>Environmental Engineering Science</i> , 2014 , 31, 288-299	2	13
35	The metabolome: A key measure for exposome research in epidemiology. <i>Current Epidemiology Reports</i> , 2019 , 6, 93-103	2.9	12
34	Environmental chemical burden in metabolic tissues and systemic biological pathways in adolescent bariatric surgery patients: A pilot untargeted metabolomic approach. <i>Environment International</i> , 2020 , 143, 105957	12.9	11
33	Towards a comprehensive characterisation of the human internal chemical exposome: Challenges and perspectives. <i>Environment International</i> , 2021 , 156, 106630	12.9	11
32	Comparative Proteomic Analysis of Carbonylated Proteins from the Striatum and Cortex of Pesticide-Treated Mice. <i>Parkinsons Disease</i> , 2015 , 2015, 812532	2.6	10
31	Air Pollution and Adverse Pregnancy and Birth Outcomes: Mediation Analysis Using Metabolomic Profiles. <i>Current Environmental Health Reports</i> , 2020 , 7, 231-242	6.5	10
30	Defining the Scope of Exposome Studies and Research Needs from a Multidisciplinary Perspective. <i>Environmental Science and Technology Letters</i> , 2021 , 8, 839-852	11	10
29	Addressing the batch effect issue for LC/MS metabolomics data in data preprocessing. <i>Scientific Reports</i> , 2020 , 10, 13856	4.9	9
28	An annotation database for chemicals of emerging concern in exposome research. <i>Environment International</i> , 2021 , 152, 106511	12.9	9
27	Multigenerational metabolic profiling in the Michigan PBB registry. <i>Environmental Research</i> , 2019 , 172, 182-193	7.9	9
26	Unsupervised dimensionality reduction for exposome research. <i>Current Opinion in Environmental Science and Health</i> , 2020 , 15, 32-38	8.1	8
25	Exposure to per- and Polyfluoroalkyl Substances and Markers of Liver Injury: A Systematic Review and Meta-Analysis.. <i>Environmental Health Perspectives</i> , 2022 , 130, 46001	8.4	8
24	Determination of thiocyanate in exhaled breath condensate. <i>Free Radical Biology and Medicine</i> , 2018 , 126, 334-340	7.8	7
23	Studying the Exposome to Understand the Environmental Determinants of Complex Liver Diseases. <i>Hepatology</i> , 2020 , 71, 352-362	11.2	7

22	Toxic tall fescue grazing increases susceptibility of the Angus steer fecal microbiota and plasma/urine metabolome to environmental effects. <i>Scientific Reports</i> , 2020 , 10, 2497	4.9	6
21	A scalable workflow to characterize the human exposome. <i>Nature Communications</i> , 2021 , 12, 5575	17.4	6
20	Untargeted Metabolomics Screen of Mid-pregnancy Maternal Serum and Autism in Offspring. <i>Autism Research</i> , 2020 , 13, 1258-1269	5.1	5
19	Discovery of metabolic alterations in the serum of patients infected with Plasmodium spp. by high-resolution metabolomics. <i>Metabolomics</i> , 2019 , 16, 9	4.7	5
18	Alterations in immune and renal biomarkers among workers occupationally exposed to low levels of trichloroethylene below current regulatory standards. <i>Occupational and Environmental Medicine</i> , 2019 , 76, 376-381	2.1	4
17	Exposure to Perfluoroalkyl Substances and Glucose Homeostasis in Youth. <i>Environmental Health Perspectives</i> , 2021 , 129, 97002	8.4	3
16	High-Resolution Metabolomic Assessment of Pesticide Exposure in Central Valley, California. <i>Chemical Research in Toxicology</i> , 2021 , 34, 1337-1347	4	2
15	Analysis of Postdeployment Serum Samples Identifies Potential Biomarkers of Exposure to Burn Pits and Other Environmental Hazards. <i>Journal of Occupational and Environmental Medicine</i> , 2019 , 61 Suppl 12, S45-S54	2	2
14	Metabolome-wide association study of occupational exposure to benzene. <i>Carcinogenesis</i> , 2021 , 42, 1326-1336	4.1	2
13	Genetic or Toxicant-Induced Disruption of Vesicular Monoamine Storage and Global Metabolic Profiling in <i>Caenorhabditis elegans</i> . <i>Toxicological Sciences</i> , 2021 , 180, 313-324	4.4	2
12	Child serum metabolome and traffic-related air pollution exposure in pregnancy. <i>Environmental Research</i> , 2022 , 203, 111907	7.9	2
11	Merging the exposome into an integrated framework for "omics" sciences.. <i>IScience</i> , 2022 , 25, 103976	6.1	2
10	High-Resolution Exposomics and Metabolomics Reveals Specific Associations in Cholestatic Liver Diseases. <i>Hepatology Communications</i> , 2021 ,	6	1
9	Integrated molecular response of exposure to traffic-related pollutants in the US trucking industry. <i>Environment International</i> , 2021 , 158, 106957	12.9	1
8	Metabolomics analysis of maternal serum exposed to high air pollution during pregnancy and risk of autism spectrum disorder in offspring. <i>Environmental Research</i> , 2021 , 196, 110823	7.9	1
7	P4-480: WESTERN DIET PROMOTES CENTRAL INSULIN IMPAIRMENT AND THE DYSREGULATION OF METABOLITES ASSOCIATED WITH ALZHEIMERS DISEASE: THE ROLE OF SOLUBLE TNF 2019 , 15, P1496-P1497		1
6	Elevated urinary mutagenicity among those exposed to bituminous coal combustion emissions or diesel engine exhaust. <i>Environmental and Molecular Mutagenesis</i> , 2021 , 62, 458-470	3.2	1
5	A randomized crossover trial of HEPA air filtration to reduce cardiovascular risk for near highway residents: Methods and approach. <i>Contemporary Clinical Trials</i> , 2021 , 108, 106520	2.3	1

- 4 Plasma concentrations of lipophilic persistent organic pollutants and glucose homeostasis in youth populations.. *Environmental Research*, **2022**, 212, 113296 7.9 1
- 3 Operationalizing the Exposome Using Passive Silicone Samplers.. *Current Pollution Reports*, **2022**, 8, 1-297.6 0
- 2 Plasma metabolomics of autism spectrum disorder and influence of shared components in proband families. **2021**, 1, osab004 0
- 1 The Mitochondrial Exposome **2018**, 613-637