

Douglas I Walker

List of Publications by Year in descending order

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83
papers

3,828
citations

117571

34
h-index

138417

58
g-index

87
all docs

87
docs citations

87
times ranked

4723
citing authors

#	ARTICLE	IF	CITATIONS
1	Honokiol blocks and reverses cardiac hypertrophy in mice by activating mitochondrial Sirt3. <i>Nature Communications</i> , 2015, 6, 6656.	5.8	336
2	xMSannotator: An R Package for Network-Based Annotation of High-Resolution Metabolomics Data. <i>Analytical Chemistry</i> , 2017, 89, 1063-1067.	3.2	231
3	Computational Metabolomics: A Framework for the Million Metabolome. <i>Chemical Research in Toxicology</i> , 2016, 29, 1956-1975.	1.7	191
4	Reference Standardization for Mass Spectrometry and High-resolution Metabolomics Applications to Exposome Research. <i>Toxicological Sciences</i> , 2015, 148, 531-543.	1.4	186
5	The Exposome: Molecules to Populations. <i>Annual Review of Pharmacology and Toxicology</i> , 2019, 59, 107-127.	4.2	144
6	Plasma Metabolomics in Human Pulmonary Tuberculosis Disease: A Pilot Study. <i>PLoS ONE</i> , 2014, 9, e108854.	1.1	140
7	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.	2.8	128
8	Reference Standardization for Quantification and Harmonization of Large-Scale Metabolomics. <i>Analytical Chemistry</i> , 2020, 92, 8836-8844.	3.2	116
9	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.	4.8	113
10	Perfluoroalkyl substances and severity of nonalcoholic fatty liver in Children: An untargeted metabolomics approach. <i>Environment International</i> , 2020, 134, 105220.	4.8	110
11	Serum Metabolomics of Slow vs. Rapid Motor Progression Parkinson's Disease: a Pilot Study. <i>PLoS ONE</i> , 2013, 8, e77629.	1.1	110
12	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.	4.8	105
13	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> , 2020, 12, 1.	3.0	91
14	High-resolution metabolomics of occupational exposure to trichloroethylene. <i>International Journal of Epidemiology</i> , 2016, 45, 1517-1527.	0.9	87
15	Dysregulated lipid and fatty acid metabolism link perfluoroalkyl substances exposure and impaired glucose metabolism in young adults. <i>Environment International</i> , 2020, 145, 106091.	4.8	83
16	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.	4.8	78
17	Human Suction Blister Fluid Composition Determined Using High-Resolution Metabolomics. <i>Analytical Chemistry</i> , 2018, 90, 3786-3792.	3.2	72
18	Metabolomic assessment of exposure to near-highway ultrafine particles. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019, 29, 469-483.	1.8	65

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19	Metabolome-Wide Association Study of Primary Open Angle Glaucoma. , 2015, 56, 5020.		63
20	Maternal serum metabolome and traffic-related air pollution exposure in pregnancy. Environment International, 2019, 130, 104872.	4.8	60
21	High-Resolution Metabolomics Assessment of Military Personnel. Journal of Occupational and Environmental Medicine, 2016, 58, S53-S61.	0.9	58
22	The Metabolome: a Key Measure for Exposome Research in Epidemiology. Current Epidemiology Reports, 2019, 6, 93-103.	1.1	57
23	Defining the Scope of Exposome Studies and Research Needs from a Multidisciplinary Perspective. Environmental Science and Technology Letters, 2021, 8, 839-852.	3.9	55
24	Exposure to the polybrominated diphenyl ether mixture DE-71 damages the nigrostriatal dopamine system: Role of dopamine handling in neurotoxicity. Experimental Neurology, 2013, 241, 138-147.	2.0	53
25	Metabolomics of childhood exposure to perfluoroalkyl substances: a cross-sectional study. Metabolomics, 2019, 15, 95.	1.4	52
26	Plasma metabolomics in adults with cystic fibrosis during a pulmonary exacerbation: A pilot randomized study of high-dose vitamin D 3 administration. Metabolism: Clinical and Experimental, 2017, 70, 31-41.	1.5	50
27	Disturbed flow induces systemic changes in metabolites in mouse plasma: a metabolomics study using ApoE ^{-/-} mice with partial carotid ligation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R62-R72.	0.9	48
28	ADAP-GC 4.0: Application of Clustering-Assisted Multivariate Curve Resolution to Spectral Deconvolution of Gas Chromatography-Mass Spectrometry Metabolomics Data. Analytical Chemistry, 2019, 91, 9069-9077.	3.2	44
29	High-resolution plasma metabolomics analysis to detect Mycobacterium tuberculosis-associated metabolites that distinguish active pulmonary tuberculosis in humans. PLoS ONE, 2018, 13, e0205398.	1.1	42
30	High-resolution metabolomic profiling of Alzheimer's disease in plasma. Annals of Clinical and Translational Neurology, 2020, 7, 36-45.	1.7	42
31	Towards a comprehensive characterisation of the human internal chemical exposome: Challenges and perspectives. Environment International, 2021, 156, 106630.	4.8	39
32	Metabolome-wide association study of phenylalanine in plasma of common marmosets. Amino Acids, 2015, 47, 589-601.	1.2	38
33	High-Resolution Metabolomics for Nutrition and Health Assessment of Armed Forces Personnel. Journal of Occupational and Environmental Medicine, 2016, 58, S80-S88.	0.9	37
34	Particulate metal exposures induce plasma metabolome changes in a commuter panel study. PLoS ONE, 2018, 13, e0203468.	1.1	37
35	Metabolomic profiles of plasma, exhaled breath condensate, and saliva are correlated with potential for air toxics detection. Journal of Breath Research, 2018, 12, 016008.	1.5	36
36	Deployment-Associated Exposure Surveillance With High-Resolution Metabolomics. Journal of Occupational and Environmental Medicine, 2016, 58, S12-S21.	0.9	34

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37	Metabolome-wide association study of anti-epileptic drug treatment during pregnancy. <i>Toxicology and Applied Pharmacology</i> , 2019, 363, 122-130.	1.3	33
38	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-S52.	0.9	32
39	Air Pollution and Adverse Pregnancy and Birth Outcomes: Mediation Analysis Using Metabolomic Profiles. <i>Current Environmental Health Reports</i> , 2020, 7, 231-242.	3.2	31
40	A scalable workflow to characterize the human exposome. <i>Nature Communications</i> , 2021, 12, 5575.	5.8	31
41	An annotation database for chemicals of emerging concern in exposome research. <i>Environment International</i> , 2021, 152, 106511.	4.8	29
42	Addressing the batch effect issue for LC/MS metabolomics data in data preprocessing. <i>Scientific Reports</i> , 2020, 10, 13856.	1.6	28
43	Association of Untargeted Urinary Metabolomics and Lung Cancer Risk Among Never-Smoking Women in China. <i>JAMA Network Open</i> , 2019, 2, e1911970.	2.8	24
44	ADAP-GC 3.2: Graphical Software Tool for Efficient Spectral Deconvolution of Gas Chromatographyâ€”High-Resolution Mass Spectrometry Metabolomics Data. <i>Journal of Proteome Research</i> , 2018, 17, 470-478.	1.8	23
45	Population Screening for Biological and Environmental Properties of the Human Metabolic Phenotype. , 2016, , 167-211.		21
46	Exposure to Perfluoroalkyl Substances and Glucose Homeostasis in Youth. <i>Environmental Health Perspectives</i> , 2021, 129, 97002.	2.8	19
47	Untargeted metabolomics reveals multiple metabolites influencing smoking-related DNA methylation. <i>Epigenomics</i> , 2018, 10, 379-393.	1.0	18
48	Studying the Exposome to Understand the Environmental Determinants of Complex Liver Diseases. <i>Hepatology</i> , 2020, 71, 352-362.	3.6	18
49	The metabolome: A key measure for exposome research in epidemiology. <i>Current Epidemiology Reports</i> , 2019, 6, 93-103.	1.1	18
50	Merging the exposome into an integrated framework for â€œomicsâ€”sciences. <i>IScience</i> , 2022, 25, 103976.	1.9	18
51	Multigenerational metabolic profiling in the Michigan PBB registry. <i>Environmental Research</i> , 2019, 172, 182-193.	3.7	17
52	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.	4.8	17
53	Untargeted Metabolomics Screen of Midâ€”pregnancy Maternal Serum and Autism in Offspring. <i>Autism Research</i> , 2020, 13, 1258-1269.	2.1	17
54	Hydrolyzed Poly(acrylonitrile) Electrospun Ion-Exchange Fibers. <i>Environmental Engineering Science</i> , 2014, 31, 288-299.	0.8	16

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55	Child serum metabolome and traffic-related air pollution exposure in pregnancy. <i>Environmental Research</i> , 2022, 203, 111907.	3.7	16
56	Metabolome-wide association study of occupational exposure to benzene. <i>Carcinogenesis</i> , 2021, 42, 1326-1336.	1.3	14
57	High-Resolution Metabolomic Assessment of Pesticide Exposure in Central Valley, California. <i>Chemical Research in Toxicology</i> , 2021, 34, 1337-1347.	1.7	14
58	Comparative Proteomic Analysis of Carbonylated Proteins from the Striatum and Cortex of Pesticide-Treated Mice. <i>Parkinson's Disease</i> , 2015, 2015, 1-11.	0.6	12
59	Discovery of metabolic alterations in the serum of patients infected with <i>Plasmodium</i> spp. by high-resolution metabolomics. <i>Metabolomics</i> , 2020, 16, 9.	1.4	11
60	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.	1.6	11
61	High-Resolution Exposomics and Metabolomics Reveals Specific Associations in Cholestatic Liver Diseases. <i>Hepatology Communications</i> , 2022, 6, 965-979.	2.0	11
62	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.	3.7	10
63	Unsupervised dimensionality reduction for exposome research. <i>Current Opinion in Environmental Science and Health</i> , 2020, 15, 32-38.	2.1	10
64	Determination of thiocyanate in exhaled breath condensate. <i>Free Radical Biology and Medicine</i> , 2018, 126, 334-340.	1.3	9
65	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.	1.3	9
66	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.	0.9	9
67	Plasma concentrations of lipophilic persistent organic pollutants and glucose homeostasis in youth populations. <i>Environmental Research</i> , 2022, 212, 113296.	3.7	9
68	Operationalizing the Exposome Using Passive Silicone Samplers. <i>Current Pollution Reports</i> , 2022, 8, 1-29.	3.1	7
69	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, S45-S54.	0.9	6
70	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.	1.4	6
71	Plasma metabolomics of autism spectrum disorder and influence of shared components in proband families. <i>Exposome</i> , 2021, 1, osab004.	1.2	5
72	Integrated molecular response of exposure to traffic-related pollutants in the US trucking industry. <i>Environment International</i> , 2022, 158, 106957.	4.8	5

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73	Cross-species metabolomic analysis of tau- and DDT-related toxicity. , 2022, 1, .		5
74	Untargeted metabolomics reveals that multiple reproductive toxicants are present at the endometrium. Science of the Total Environment, 2022, 843, 157005.	3.9	3
75	A randomized crossover trial of HEPA air filtration to reduce cardiovascular risk for near highway residents: Methods and approach. Contemporary Clinical Trials, 2021, 108, 106520.	0.8	2
76	P4480: WESTERN DIET PROMOTES CENTRAL INSULIN IMPAIRMENT AND THE DYSREGULATION OF METABOLITES ASSOCIATED WITH ALZHEIMER'S DISEASE: THE ROLE OF SOLUBLE TNF. Alzheimer's and Dementia, 2019, 15, P1496.	0.4	1
77	Exposure to perfluoroalkyl substances (PFAS) and liver injury: a systematic review and meta-analysis. ISEE Conference Abstracts, 2021, 2021, .	0.0	1
78	Exposure to lipophilic chemicals and glucose homeostasis in youth. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
79	The impact of occupational exposure to dioxins and dioxin-like compounds on the blood metabolome. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
80	Towards epigenomic and metabolomic profiles of chronic organophosphate exposure in residents of Californiaâ€™ Central Valley. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
81	Untargeted Metabolomics Reveals that Multiple Reproductive Toxicants are Present in the Endometrium. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
82	Gestational Perfluorooctanoate Exposure and Childhood Metabolome at Age 8 Years. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
83	Associations between liver PFAS concentrations and plasma extracellular miRNAs in a cohort of adolescents undergoing bariatric surgery. ISEE Conference Abstracts, 2021, 2021, .	0.0	0