

Michelle Plusquin

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

5,790
citations

117625
34
h-index

79698
73
g-index

116
all docs

116
docs citations

116
times ranked

9130
citing authors

#	ARTICLE	IF	CITATIONS
1	Introducing nature at the work floor: A nature-based intervention to reduce stress and improve cognitive performance. International Journal of Hygiene and Environmental Health, 2022, 240, 113884.	4.3	10
2	Perspectives and challenges of epigenetic determinants of childhood obesity: A systematic review. Obesity Reviews, 2022, 23, e13389.	6.5	16
3	A systematic review of metabolomic studies of childhood obesity: State of the evidence for metabolic determinants and consequences. Obesity Reviews, 2022, 23, e13384.	6.5	26
4	Glyphosate and AMPA exposure in relation to markers of biological aging in an adult population-based study. International Journal of Hygiene and Environmental Health, 2022, 240, 113895.	4.3	8
5	Maternal Glycemic Dysregulation During Pregnancy and Neonatal Blood DNA Methylation: Meta-analyses of Epigenome-Wide Association Studies. Diabetes Care, 2022, 45, 614-623.	8.6	19
6	Early life exposure to residential green space impacts cognitive functioning in children aged 4 to 6 years. Environment International, 2022, 161, 107094.	10.0	19
7	Residential green space is associated with a buffering effect on stress responses during the COVID-19 pandemic in mothers of young children, a prospective study.. Environmental Research, 2022, 208, 112603.	7.5	19
8	Adverse Effects of fine particulate matter on human kidney functioning: a systematic review. Environmental Health, 2022, 21, 24.	4.0	18
9	Meta-analysis of epigenome-wide association studies in newborns and children show widespread sex differences in blood DNA methylation. Mutation Research - Reviews in Mutation Research, 2022, 789, 108415.	5.5	24
10	Residential green space and mental health-related prescription medication sales: An ecological study in Belgium. Environmental Research, 2022, 211, 113056.	7.5	17
11	The telomere-mitochondrial axis of aging in newborns. Aging, 2022, 14, 1627-1650.	3.1	9
12	Cord blood metabolites and rapid postnatal growth as multiple mediators in the prenatal propensity to childhood overweight. International Journal of Obesity, 2022, 46, 1384-1393.	3.4	4
13	Residential Exposure to Urban Trees and Medication Sales for Mood Disorders and Cardiovascular Disease in Brussels, Belgium: An Ecological Study. Environmental Health Perspectives, 2022, 130, 57003.	6.0	16
14	Residential green space in association with the methylation status in a CpG site within the promoter region of the placental serotonin receptor <i>HTR2A</i> . Epigenetics, 2022, 17, 1863-1874.	2.7	4
15	Methylome-wide analysis of IVF neonates that underwent embryo culture in different media revealed no significant differences. Npj Genomic Medicine, 2022, 7, .	3.8	4
16	Tree pollen allergy risks and changes across scenarios in urban green spaces in Brussels, Belgium. Landscape and Urban Planning, 2021, 207, 104001.	7.5	30
17	Lower iodine storage in the placenta is associated with gestational diabetes mellitus. BMC Medicine, 2021, 19, 47.	5.5	9
18	Child buccal telomere length and mitochondrial DNA content as biomolecular markers of ageing in association with air pollution. Environment International, 2021, 147, 106332.	10.0	15

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19	Different epigenetic signatures of newborn telomere length and telomere attrition rate in early life. <i>Aging</i> , 2021, 13, 14630-14650.	3.1	13
20	Cord blood metabolic signatures predictive of childhood overweight and rapid growth. <i>International Journal of Obesity</i> , 2021, 45, 2252-2260.	3.4	14
21	{In utero} paraben exposure and evidence of obesogenic effects - Associations between placental ethyl paraben and cord blood metabolic biomarkers. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
22	Dynamics of skin microvascular blood flow in 4-6-year-old children in association with pre- and postnatal black carbon and particulate air pollution exposure. <i>Environment International</i> , 2021, 157, 106799.	10.0	7
23	In utero exposure to parabens and early childhood BMI z-scores – Associations between placental ethyl paraben, longitudinal BMI trajectories and cord blood metabolic biomarkers. <i>Environment International</i> , 2021, 157, 106845.	10.0	13
24	Commentary: Data Processing Thresholds for Abundance and Sparsity and Missed Biological Insights in an Untargeted Chemical Analysis of Blood Specimens for Exposomics. <i>Frontiers in Public Health</i> , 2021, 9, 755837.	2.7	2
25	Reply to “Fetal side” of the placenta: Anatomical mis-annotation of carbon particle “transfer” across the human placenta. <i>Nature Communications</i> , 2021, 12, 7050.	12.8	6
26	Maternal Gestational Diabetes Mellitus and Newborn DNA Methylation: Findings From the Pregnancy and Childhood Epigenetics Consortium. <i>Diabetes Care</i> , 2020, 43, 98-105.	8.6	145
27	Early life tobacco exposure and children’s telomere length: The HELIX project. <i>Science of the Total Environment</i> , 2020, 711, 135028.	8.0	17
28	Residential green space and medication sales for childhood asthma: A longitudinal ecological study in Belgium. <i>Environmental Research</i> , 2020, 189, 109914.	7.5	27
29	Determinants of placental iodine concentrations in a mild-to-moderate iodine-deficient population: an ENVIRONAGE cohort study. <i>Journal of Translational Medicine</i> , 2020, 18, 426.	4.4	11
30	Pooled analysis of genotoxicity markers in relation to exposure in the Flemish Environment and Health Studies (FLEHS) between 1999 and 2018. <i>Environmental Research</i> , 2020, 190, 110002.	7.5	9
31	Monitoring indoor exposure to combustion-derived particles using plants. <i>Environmental Pollution</i> , 2020, 266, 115261.	7.5	4
32	Prenatal Exposure to Multiple Air Pollutants, Mediating Molecular Mechanisms, and Shifts in Birthweight. <i>Environmental Science & Technology</i> , 2020, 54, 14502-14513.	10.0	21
33	DNA methylation of insulin-like growth factor 2 and H19 cluster in cord blood and prenatal air pollution exposure to fine particulate matter. <i>Environmental Health</i> , 2020, 19, 129.	4.0	21
34	Association of Retinal Microvascular Characteristics With Short-term Memory Performance in Children Aged 4 to 5 Years. <i>JAMA Network Open</i> , 2020, 3, e2011537.	5.9	10
35	Association Between Maternal Prepregnancy Body Mass Index and Anthropometric Parameters, Blood Pressure, and Retinal Microvasculature in Children Age 4 to 6 Years. <i>JAMA Network Open</i> , 2020, 3, e204662.	5.9	21
36	Children’s microvascular traits and ambient air pollution exposure during pregnancy and early childhood: prospective evidence to elucidate the developmental origin of particle-induced disease. <i>BMC Medicine</i> , 2020, 18, 128.	5.5	10

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37	A multi-omic analysis of birthweight in newborn cord blood reveals new underlying mechanisms related to cholesterol metabolism. <i>Metabolism: Clinical and Experimental</i> , 2020, 110, 154292.	3.4	25
38	Establishing reference values for macro- and microvascular measurements in 4-to-5 year-old children of the ENVIRONAGE prospective birth cohort. <i>Scientific Reports</i> , 2020, 10, 5107.	3.3	5
39	Epigenome-wide meta-analysis of blood DNA methylation in newborns and children identifies numerous loci related to gestational age. <i>Genome Medicine</i> , 2020, 12, 25.	8.2	81
40	Association of Parental Socioeconomic Status and Newborn Telomere Length. <i>JAMA Network Open</i> , 2020, 3, e204057.	5.9	41
41	Breastfeeding predicts blood mitochondrial DNA content in adolescents. <i>Scientific Reports</i> , 2020, 10, 387.	3.3	3
42	Early Biological Aging and Fetal Exposure to High and Low Ambient Temperature: A Birth Cohort Study. <i>Environmental Health Perspectives</i> , 2019, 127, 117001.	6.0	22
43	Ambient black carbon particles reach the fetal side of human placenta. <i>Nature Communications</i> , 2019, 10, 3866.	12.8	383
44	Association between long-term air pollution exposure and DNA methylation: The REGICOR study. <i>Environmental Research</i> , 2019, 176, 108550.	7.5	19
45	Prenatal Particulate Air Pollution and DNA Methylation in Newborns: An Epigenome-Wide Meta-Analysis. <i>Environmental Health Perspectives</i> , 2019, 127, 57012.	6.0	111
46	A Co-expression Analysis of the Placental Transcriptome in Association With Maternal Pre-pregnancy BMI and Newborn Birth Weight. <i>Frontiers in Genetics</i> , 2019, 10, 354.	2.3	27
47	Exposure to Environmental Pollutants and Their Association with Biomarkers of Aging: A Multipollutant Approach. <i>Environmental Science & Technology</i> , 2019, 53, 5966-5976.	10.0	41
48	Meta-analysis of epigenome-wide association studies in neonates reveals widespread differential DNA methylation associated with birthweight. <i>Nature Communications</i> , 2019, 10, 1893.	12.8	140
49	The Cord Blood Insulin and Mitochondrial DNA Content Related Methylome. <i>Frontiers in Genetics</i> , 2019, 10, 325.	2.3	7
50	Socioeconomic position during pregnancy and DNA methylation signatures at three stages across early life: epigenome-wide association studies in the ALSPAC birth cohort. <i>International Journal of Epidemiology</i> , 2019, 48, 30-44.	1.9	41
51	Epigenetics and the Exposome. , 2019, , 127-146.		6
52	Child's buccal cell mitochondrial DNA content modifies the association between heart rate variability and recent air pollution exposure at school. <i>Environment International</i> , 2019, 123, 39-49.	10.0	15
53	Cord Blood Metabolic Signatures of Birth Weight: A Population-Based Study. <i>Journal of Proteome Research</i> , 2018, 17, 1235-1247.	3.7	46
54	Planarians Customize Their Stem Cell Responses Following Genotoxic Stress as a Function of Exposure Time and Regenerative State. <i>Toxicological Sciences</i> , 2018, 162, 251-263.	3.1	9

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55	Air pollution and incidence of cancers of the stomach and the upper aerodigestive tract in the European Study of Cohorts for Air Pollution Effects (ESCAPE). International Journal of Cancer, 2018, 143, 1632-1643.	5.1	57
56	DNA Methylome Marks of Exposure to Particulate Matter at Three Time Points in Early Life. Environmental Science & Technology, 2018, 52, 5427-5437.	10.0	21
57	Is There an Association Between Ambient Air Pollution and Bladder Cancer Incidence? Analysis of 15 European Cohorts. European Urology Focus, 2018, 4, 113-120.	3.1	33
58	Cohort Profile: Pregnancy And Childhood Epigenetics (PACE) Consortium. International Journal of Epidemiology, 2018, 47, 22-23u.	1.9	105
59	The Impact of Air Pollution on Our Epigenome: How Far Is the Evidence? (A Systematic Review). Current Environmental Health Reports, 2018, 5, 544-578.	6.7	54
60	Prenatal Air Pollution and Newborns' Predisposition to Accelerated Biological Aging. Obstetrical and Gynecological Survey, 2018, 73, 259-260.	0.4	1
61	Children's screen time alters the expression of saliva extracellular miR-222 and miR-146a. Scientific Reports, 2018, 8, 8209.	3.3	6
62	Retinal microcirculation and leukocyte telomere length in the general population. Scientific Reports, 2018, 8, 7095.	3.3	5
63	Cord blood leptin and insulin levels in association with mitochondrial DNA content. Journal of Translational Medicine, 2018, 16, 224.	4.4	9
64	Air pollution and the fetal origin of disease: A systematic review of the molecular signatures of air pollution exposure in human placenta. Environmental Research, 2018, 166, 310-323.	7.5	71
65	Epigenome-Wide Meta-Analysis of DNA Methylation in Children related to Prenatal Particulate Air Pollution Exposure. ISEE Conference Abstracts, 2018, 2017, 172.	0.0	1
66	Three cycles of human biomonitoring in Flanders – Time trends observed in the Flemish Environment and Health Study. International Journal of Hygiene and Environmental Health, 2017, 220, 36-45.	4.3	83
67	Outdoor air pollution and risk for kidney parenchyma cancer in 14 European cohorts. International Journal of Cancer, 2017, 140, 1528-1537.	5.1	44
68	Cohort Profile: The ENVIRONMENTAL influence ON early AGEing (ENVIRON AGE): a birth cohort study. International Journal of Epidemiology, 2017, 46, dyw269.	1.9	66
69	Stem cell proliferation patterns as an alternative for in vivo prediction and discrimination of carcinogenic compounds. Scientific Reports, 2017, 7, 45616.	3.3	5
70	Neonatal exposure to environmental pollutants and placental mitochondrial DNA content: A multi-pollutant approach. Environment International, 2017, 106, 60-68.	10.0	37
71	Cord plasma insulin and in utero exposure to ambient air pollution. Environment International, 2017, 105, 126-132.	10.0	32
72	Prenatal Air Pollution and Newborns' Predisposition to Accelerated Biological Aging. JAMA Pediatrics, 2017, 171, 1160.	6.2	180

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73	DNA methylation and exposure to ambient air pollution in two prospective cohorts. <i>Environment International</i> , 2017, 108, 127-136.	10.0	110
74	Refinement of a Methodology for Untargeted Detection of Serum Albumin Adducts in Human Populations. <i>Chemical Research in Toxicology</i> , 2017, 30, 2120-2129.	3.3	10
75	Telomere tracking from birth to adulthood and residential traffic exposure. <i>BMC Medicine</i> , 2017, 15, 205.	5.5	50
76	Transcriptome-wide analyses indicate mitochondrial responses to particulate air pollution exposure. <i>Environmental Health</i> , 2017, 16, 87.	4.0	22
77	Neonatal Cord Blood Oxylipins and Exposure to Particulate Matter in the Early-Life Environment: An ENVIR <i>ON</i> AGE Birth Cohort Study. <i>Environmental Health Perspectives</i> , 2017, 125, 691-698.	6.0	27
78	Long-Term Exposure to Ambient Air Pollution and Incidence of Postmenopausal Breast Cancer in 15 European Cohorts within the ESCAPE Project. <i>Environmental Health Perspectives</i> , 2017, 125, 107005.	6.0	104
79	Sex-Specific Associations between Particulate Matter Exposure and Gene Expression in Independent Discovery and Validation Cohorts of Middle-Aged Men and Women. <i>Environmental Health Perspectives</i> , 2017, 125, 660-669.	6.0	27
80	Peripheral blood mitochondrial DNA content in relation to circulating metabolites and inflammatory markers: A population study. <i>PLoS ONE</i> , 2017, 12, e0181036.	2.5	24
81	Correlates of Peripheral Blood Mitochondrial DNA Content in a General Population. <i>American Journal of Epidemiology</i> , 2016, 183, kww175.	3.4	91
82	Biomolecular Markers within the Core Axis of Aging and Particulate Air Pollution Exposure in the Elderly: A Cross-Sectional Study. <i>Environmental Health Perspectives</i> , 2016, 124, 943-950.	6.0	95
83	Recent exposure to ultrafine particles in school children alters miR-222 expression in the extracellular fraction of saliva. <i>Environmental Health</i> , 2016, 15, 80.	4.0	28
84	Urinary t,t -muconic acid as a proxy-biomarker of car exhaust and neurobehavioral performance in 15-year olds. <i>Environmental Research</i> , 2016, 151, 521-527.	7.5	11
85	Maternal pre-pregnancy body mass index and newborn telomere length. <i>BMC Medicine</i> , 2016, 14, 148.	5.5	116
86	Toxic effects of cadmium on flatworm stem cell dynamics: A transcriptomic and ultrastructural elucidation of underlying mechanisms. <i>Environmental Toxicology</i> , 2016, 31, 1217-1228.	4.0	4
87	Long-term Exposure to Ambient Air Pollution and Incidence of Postmenopausal Breast Cancer in 15 European Cohorts: the European Study of Cohorts for Air Pollution Effects (ESCAPE). <i>ISEE Conference Abstracts</i> , 2016, 2016, .	0.0	7
88	Recent exposure to ultrafine particles in school children alters miR-222 expression in the extracellular fraction of saliva. <i>ISEE Conference Abstracts</i> , 2016, 2016, .	0.0	0
89	Placental mtDNA content and environmental exposure: a multipollutant approach. <i>ISEE Conference Abstracts</i> , 2016, 2016, .	0.0	0
90	Air pollution and incidence of gastric and upper aerodigestive tract cancer in 15 European cohorts. <i>ISEE Conference Abstracts</i> , 2016, 2016, .	0.0	0

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91	Urinary t,t-muconic acid as a proxy-biomarker of car exhaust and neurobehavioral performance in 15-year olds. ISEE Conference Abstracts, 2016, 2016, .	0.0	0
92	Outdoor air pollution and risk for kidney parenchyma cancer in 14 European cohorts. ISEE Conference Abstracts, 2016, 2016, .	0.0	0
93	A sex-specific blood transcriptome signature predicts particulate matter exposure among middle-aged men and women. ISEE Conference Abstracts, 2016, 2016, .	0.0	0
94	Altered neonatal cord blood oxylipidome in association with exposure to particulate matter in the early life environment. Archives of Public Health, 2015, 73, .	2.4	0
95	Toxicity profiles and solventâ€“toxicant interference in the planarian <i>Schmidtea mediterranea</i> after dimethylsulfoxide (DMSO) exposure. Journal of Applied Toxicology, 2015, 35, 319-326.	2.8	24
96	<i>In Utero</i> Fine Particle Air Pollution and Placental Expression of Genes in the Brain-Derived Neurotrophic Factor Signaling Pathway: An ENVIR <i>ON</i> AGE Birth Cohort Study. Environmental Health Perspectives, 2015, 123, 834-840.	6.0	102
97	Blood Pressure and Same-Day Exposure to Air Pollution at School: Associations with Nano-Sized to Coarse PM in Children. Environmental Health Perspectives, 2015, 123, 737-742.	6.0	96
98	Reactive Oxygen Species in Planarian Regeneration: An Upstream Necessity for Correct Patterning and Brain Formation. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-19.	4.0	96
99	An Adult Stem Cell Proliferation Assay in the Flatworm Model <i>Macrostomum lignano</i> to Predict the Carcinogenicity of Compounds. Applied in Vitro Toxicology, 2015, 1, 213-219.	1.1	2
100	Molecular responses in the telomere-mitochondrial axis of ageing in the elderly: A candidate gene approach. Mechanisms of Ageing and Development, 2015, 145, 51-57.	4.6	31
101	Association of total cancer and lung cancer with environmental exposure to cadmium: the meta-analytical evidence. Cancer Causes and Control, 2015, 26, 1281-1288.	1.8	75
102	Epigenome-Wide Dna Methylation Profiles And Exposure To Ambient Air Pollution. ISEE Conference Abstracts, 2015, 2015, 816.	0.0	0
103	Placental DNA hypomethylation in association with particulate air pollution in early life. Particle and Fibre Toxicology, 2013, 10, 22.	6.2	161
104	Prevention â€“ Passive smoking and pregnancy. European Journal of Cancer, Supplement, 2013, 11, 242-247.	2.2	1
105	The need for transparency and good practices in the qPCR literature. Nature Methods, 2013, 10, 1063-1067.	19.0	251
106	Decreased Mitochondrial DNA Content in Association with Exposure to Polycyclic Aromatic Hydrocarbons in House Dust during Wintertime: From a Population Enquiry to Cell Culture. PLoS ONE, 2013, 8, e63208.	2.5	57
107	Blood gene expression of candidate genes in environmental carcinogenesis in association with particulate air pollution. ISEE Conference Abstracts, 2013, 2013, 5352.	0.0	0
108	An epidemiological appraisal of the association between heart rate variability and particulate air pollution: a meta-analysis. Heart, 2012, 98, 1127-1135.	2.9	143

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109	Physiological and molecular characterisation of cadmium stress in <i>Schmidtea mediterranea</i> . <i>International Journal of Developmental Biology</i> , 2012, 56, 183-191.	0.6	32
110	Reference genes for qPCR assays in toxic metal and salinity stress in two flatworm model organisms. <i>Ecotoxicology</i> , 2012, 21, 475-484.	2.4	16
111	Cadmium stress: an oxidative challenge. <i>BioMetals</i> , 2010, 23, 927-940.	4.1	823
112	House dust as possible route of environmental exposure to cadmium and lead in the adult general population. <i>Environmental Research</i> , 2007, 103, 30-37.	7.5	185
113	Environmental exposure to cadmium and risk of cancer: a prospective population-based study. <i>Lancet Oncology</i> , The, 2006, 7, 119-126.	10.7	517
114	A Multi-Omic Analysis of Birthweight in Newborn Cord Blood. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0