Michelle Plusquin

List of Publications by Year
in descending order

114 papers	5,790 citations	117453 34 h-index	79541 73 g-index
116 all docs	116 docs citations	116 times ranked	9130 citing authors

#	Article	IF	Citations
1	Cadmium stress: an oxidative challenge. BioMetals, 2010, 23, 927-940.	1.8	823
2	Environmental exposure to cadmium and risk of cancer: a prospective population-based study. Lancet Oncology, The, 2006, 7, 119-126.	5.1	517
3	Ambient black carbon particles reach the fetal side of human placenta. Nature Communications, 2019, 10, 3866.	5.8	383
4	The need for transparency and good practices in the qPCR literature. Nature Methods, 2013, 10, 1063-1067.	9.0	251
5	House dust as possible route of environmental exposure to cadmium and lead in the adult general population. Environmental Research, 2007, 103, 30-37.	3.7	185
6	Prenatal Air Pollution and Newborns' Predisposition to Accelerated Biological Aging. JAMA Pediatrics, 2017, 171, 1160.	3.3	180
7	Placental DNA hypomethylation in association with particulate air pollution in early life. Particle and Fibre Toxicology, 2013, 10, 22.	2.8	161
8	Maternal Gestational Diabetes Mellitus and Newborn DNA Methylation: Findings From the Pregnancy and Childhood Epigenetics Consortium. Diabetes Care, 2020, 43, 98-105.	4.3	145
9	An epidemiological appraisal of the association between heart rate variability and particulate air pollution: a meta-analysis. Heart, 2012, 98, 1127-1135.	1.2	143
10	Meta-analysis of epigenome-wide association studies in neonates reveals widespread differential DNA methylation associated with birthweight. Nature Communications, 2019, 10, 1893.	5.8	140
11	Maternal pre-pregnancy body mass index and newborn telomere length. BMC Medicine, 2016, 14, 148.	2.3	116
12	Prenatal Particulate Air Pollution and DNA Methylation in Newborns: An Epigenome-Wide Meta-Analysis. Environmental Health Perspectives, 2019, 127, 57012.	2.8	111
13	DNA methylation and exposure to ambient air pollution in two prospective cohorts. Environment International, 2017, 108, 127-136.	4.8	110
14	Cohort Profile: Pregnancy And Childhood Epigenetics (PACE) Consortium. International Journal of Epidemiology, 2018, 47, 22-23u.	0.9	105
15	Long-Term Exposure to Ambient Air Pollution and Incidence of Postmenopausal Breast Cancer in 15 European Cohorts within the ESCAPE Project. Environmental Health Perspectives, 2017, 125, 107005.	2.8	104
16	In Utero Fine Particle Air Pollution and Placental Expression of Genes in the Brain-Derived Neurotrophic Factor Signaling Pathway: An ENVIR ON AGE Birth Cohort Study. Environmental Health Perspectives, 2015, 123, 834-840.	2.8	102
17	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.	2.8	96
18	Reactive Oxygen Species in Planarian Regeneration: An Upstream Necessity for Correct Patterning and Brain Formation. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-19.	1.9	96

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19	Biomolecular Markers within the Core Axis of Aging and Particulate Air Pollution Exposure in the Elderly: A Cross-Sectional Study. Environmental Health Perspectives, 2016, 124, 943-950.	2.8	95
20	Correlates of Peripheral Blood Mitochondrial DNA Content in a General Population. American Journal of Epidemiology, 2016, 183, kwv175.	1.6	91
21	Three cycles of human biomonitoring in Flanders â˜' Time trends observed in the Flemish Environment and Health Study. International Journal of Hygiene and Environmental Health, 2017, 220, 36-45.	2.1	83
22	Epigenome-wide meta-analysis of blood DNA methylation in newborns and children identifies numerous loci related to gestational age. Genome Medicine, 2020, 12, 25.	3.6	81
23	Association of total cancer and lung cancer with environmental exposure to cadmium: the meta-analytical evidence. Cancer Causes and Control, 2015, 26, 1281-1288.	0.8	75
24	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.	3.7	71
25	Cohort Profile: The ENVIRonmental influenceONearly AGEing (ENVIRONAGE): a birth cohort study. International Journal of Epidemiology, 2017, 46, dyw269.	0.9	66
26	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.	1.1	57
27	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.	2.3	57
28	The Impact of Air Pollution on Our Epigenome: How Far Is the Evidence? (A Systematic Review). Current Environmental Health Reports, 2018, 5, 544-578.	3.2	54
29	Telomere tracking from birth to adulthood and residential traffic exposure. BMC Medicine, 2017, 15, 205.	2.3	50
30	Cord Blood Metabolic Signatures of Birth Weight: A Population-Based Study. Journal of Proteome Research, 2018, 17, 1235-1247.	1.8	46
31	Outdoor air pollution and risk for kidney parenchyma cancer in 14 European cohorts. International Journal of Cancer, 2017, 140, 1528-1537.	2.3	44
32	Exposure to Environmental Pollutants and Their Association with Biomarkers of Aging: A Multipollutant Approach. Environmental Science & Technology, 2019, 53, 5966-5976.	4.6	41
33	Socioeconomic position during pregnancy and DNA methylation signatures at three stages across early life: epigenome-wide association studies in the ALSPAC birth cohort. International Journal of Epidemiology, 2019, 48, 30-44.	0.9	41
34	Association of Parental Socioeconomic Status and Newborn Telomere Length. JAMA Network Open, 2020, 3, e204057.	2.8	41
35	Neonatal exposure to environmental pollutants and placental mitochondrial DNA content: A multi-pollutant approach. Environment International, 2017, 106, 60-68.	4.8	37
36	Is There an Association Between Ambient Air Pollution and Bladder Cancer Incidence? Analysis of 15 European Cohorts. European Urology Focus, 2018, 4, 113-120.	1.6	33

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37	Physiological and molecular characterisation of cadmium stress in Schmidtea mediterranea. International Journal of Developmental Biology, 2012, 56, 183-191.	0.3	32
38	Cord plasma insulin and in utero exposure to ambient air pollution. Environment International, 2017, 105, 126-132.	4.8	32
39	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.	2.2	31
40	Tree pollen allergy risks and changes across scenarios in urban green spaces in Brussels, Belgium. Landscape and Urban Planning, 2021, 207, 104001.	3.4	30
41	Recent exposure to ultrafine particles in school children alters miR-222 expression in the extracellular fraction of saliva. Environmental Health, 2016, 15, 80.	1.7	28
42	Neonatal Cord Blood Oxylipins and Exposure to Particulate Matter in the Early-Life Environment: An ENVIR ON AGE Birth Cohort Study. Environmental Health Perspectives, 2017, 125, 691-698.	2.8	27
43	Sex-Specific Associations between Particulate Matter Exposure and Gene Expression in Independent Discovery and Validation Cohorts of Middle-Aged Men and Women. Environmental Health Perspectives, 2017, 125, 660-669.	2.8	27
44	A Co-expression Analysis of the Placental Transcriptome in Association With Maternal Pre-pregnancy BMI and Newborn Birth Weight. Frontiers in Genetics, 2019, 10, 354.	1.1	27
45	Residential green space and medication sales for childhood asthma: A longitudinal ecological study in Belgium. Environmental Research, 2020, 189, 109914.	3.7	27
46	A systematic review of metabolomic studies of childhood obesity: State of the evidence for metabolic determinants and consequences. Obesity Reviews, 2022, 23, e13384.	3.1	26
47	A multi-omic analysis of birthweight in newborn cord blood reveals new underlying mechanisms related to cholesterol metabolism. Metabolism: Clinical and Experimental, 2020, 110, 154292.	1.5	25
48	Toxicity profiles and solventâ€“toxicant interference in the planarian Schmidtea mediterranea after dimethylsulfoxide (DMSO) exposure. Journal of Applied Toxicology, 2015, 35, 319-326.	1.4	24
49	Peripheral blood mitochondrial DNA content in relation to circulating metabolites and inflammatory markers: A population study. PLoS ONE, 2017, 12, e0181036.	1.1	24
50	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.	2.4	24
51	Transcriptome-wide analyses indicate mitochondrial responses to particulate air pollution exposure. Environmental Health, 2017, 16, 87.	1.7	22
52	Early Biological Aging and Fetal Exposure to High and Low Ambient Temperature: A Birth Cohort Study. Environmental Health Perspectives, 2019, 127, 117001.	2.8	22
53	DNA Methylome Marks of Exposure to Particulate Matter at Three Time Points in Early Life. Environmental Science & Technology, 2018, 52, 5427-5437.	4.6	21
54	Prenatal Exposure to Multiple Air Pollutants, Mediating Molecular Mechanisms, and Shifts in Birthweight. Environmental Science & Technology, 2020, 54, 14502-14513.	4.6	21

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55	DNA methylation of insulin-like growth factor 2 and H19 cluster in cord blood and prenatal air pollution exposure to fine particulate matter. Environmental Health, 2020, 19, 129.	1.7	21
56	Association Between Maternal Prepregnancy Body Mass Index and Anthropometric Parameters, Blood Pressure, and Retinal Microvasculature in Children Age 4 to 6 Years. JAMA Network Open, 2020, 3, e204662.	2.8	21
57	Association between long-term air pollution exposure and DNA methylation: The REGICOR study. Environmental Research, 2019, 176, 108550.	3.7	19
58	Maternal Glycemic Dysregulation During Pregnancy and Neonatal Blood DNA Methylation: Meta-analyses of Epigenome-Wide Association Studies. Diabetes Care, 2022, 45, 614-623.	4.3	19
59	Early life exposure to residential green space impacts cognitive functioning in children aged 4 to 6â€¯years. Environment International, 2022, 161, 107094.	4.8	19
60	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.	3.7	19
61	Adverse Effects of fine particulate matter on human kidney functioning: a systematic review. Environmental Health, 2022, 21, 24.	1.7	18
62	Early life tobacco exposure and childrenâ€™s telomere length: The HELIX project. Science of the Total Environment, 2020, 711, 135028.	3.9	17
63	Residential green space and mental health-related prescription medication sales: An ecological study in Belgium. Environmental Research, 2022, 211, 113056.	3.7	17
64	Reference genes for qPCR assays in toxic metal and salinity stress in two flatworm model organisms. Ecotoxicology, 2012, 21, 475-484.	1.1	16
65	Perspectives and challenges of epigenetic determinants of childhood obesity: A systematic review. Obesity Reviews, 2022, 23, e13389.	3.1	16
66	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.	2.8	16
67	Child's buccal cell mitochondrial DNA content modifies the association between heart rate variability and recent air pollution exposure at school. Environment International, 2019, 123, 39-49.	4.8	15
68	Child buccal telomere length and mitochondrial DNA content as biomolecular markers of ageing in association with air pollution. Environment International, 2021, 147, 106332.	4.8	15
69	Cord blood metabolic signatures predictive of childhood overweight and rapid growth. International Journal of Obesity, 2021, 45, 2252-2260.	1.6	14
70	Different epigenetic signatures of newborn telomere length and telomere attrition rate in early life. Aging, 2021, 13, 14630-14650.	1.4	13
71	In utero exposure to parabens and early childhood BMI z-scores â€“ Associations between placental ethyl paraben, longitudinal BMI trajectories and cord blood metabolic biomarkers. Environment International, 2021, 157, 106845.	4.8	13
72	Urinary t,t -muconic acid as a proxy-biomarker of car exhaust and neurobehavioral performance in 15-year olds. Environmental Research, 2016, 151, 521-527.	3.7	11

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73	Determinants of placental iodine concentrations in a mild-to-moderate iodine-deficient population: an ENVIRONAGE cohort study. Journal of Translational Medicine, 2020, 18, 426.	1.8	11
74	Refinement of a Methodology for Untargeted Detection of Serum Albumin Adducts in Human Populations. Chemical Research in Toxicology, 2017, 30, 2120-2129.	1.7	10
75	Association of Retinal Microvascular Characteristics With Short-term Memory Performance in Children Aged 4 to 5 Years. JAMA Network Open, 2020, 3, e2011537.	2.8	10
76	Childrenâ€™s microvascular traits and ambient air pollution exposure during pregnancy and early childhood: prospective evidence to elucidate the developmental origin of particle-induced disease. BMC Medicine, 2020, 18, 128.	2.3	10
77	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.	2.1	10
78	Planarians Customize Their Stem Cell Responses Following Genotoxic Stress as a Function of Exposure Time and Regenerative State. Toxicological Sciences, 2018, 162, 251-263.	1.4	9
79	Cord blood leptin and insulin levels in association with mitochondrial DNA content. Journal of Translational Medicine, 2018, 16, 224.	1.8	9
80	Pooled analysis of genotoxicity markers in relation to exposure in the Flemish Environment and Health Studies (FLEHS) between 1999 and 2018. Environmental Research, 2020, 190, 110002.	3.7	9
81	Lower iodine storage in the placenta is associated with gestational diabetes mellitus. BMC Medicine, 2021, 19, 47.	2.3	9
82	The telomere-mitochondrial axis of aging in newborns. Aging, 2022, 14, 1627-1650.	1.4	9
83	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.	2.1	8
84	The Cord Blood Insulin and Mitochondrial DNA Content Related Methylome. Frontiers in Genetics, 2019, 10, 325.	1.1	7
85	Dynamics of skin microvascular blood flow in 4â€“6-year-old children in association with pre- and postnatal black carbon and particulate air pollution exposure. Environment International, 2021, 157, 106799.	4.8	7
86	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). ISEE Conference Abstracts, 2016, 2016, .	0.0	7
87	Childrenâ€™s screen time alters the expression of saliva extracellular miR-222 and miR-146a. Scientific Reports, 2018, 8, 8209.	1.6	6
88	Epigenetics and the Exposome. , 2019, , 127-146.		6
89	Reply to â€˜Fetal sideâ€™ of the placenta: Anatomical mis-annotation of carbon particle â€˜transferâ€™ across the human placenta. Nature Communications, 2021, 12, 7050.	5.8	6
90	Stem cell proliferation patterns as an alternative for in vivo prediction and discrimination of carcinogenic compounds. Scientific Reports, 2017, 7, 45616.	1.6	5

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91	Retinal microcirculation and leukocyte telomere length in the general population. Scientific Reports, 2018, 8, 7095.	1.6	5
92	Establishing reference values for macro- and microvascular measurements in 4-to-5 year-old children of the ENVIRONAGE prospective birth cohort. Scientific Reports, 2020, 10, 5107.	1.6	5
93	Toxic effects of cadmium on flatworm stem cell dynamics: A transcriptomic and ultrastructural elucidation of underlying mechanisms. Environmental Toxicology, 2016, 31, 1217-1228.	2.1	4
94	Monitoring indoor exposure to combustion-derived particles using plants. Environmental Pollution, 2020, 266, 115261.	3.7	4
95	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.	1.6	4
96	Residential green space in association with the methylation status in a CpG site within the promoter region of the placental serotonin receptor HTR2A. Epigenetics, 2022, 17, 1863-1874.	1.3	4
97	Methylome-wide analysis of IVF neonates that underwent embryo culture in different media revealed no significant differences. Npj Genomic Medicine, 2022, 7, .	1.7	4
98	Breastfeeding predicts blood mitochondrial DNA content in adolescents. Scientific Reports, 2020, 10, 387.	1.6	3
99	An Adult Stem Cell Proliferation Assay in the Flatworm Model Macrostomum lignano to Predict the Carcinogenicity of Compounds. Applied in Vitro Toxicology, 2015, 1, 213-219.	0.6	2
100	Commentary: Data Processing Thresholds for Abundance and Sparsity and Missed Biological Insights in an Untargeted Chemical Analysis of Blood Specimens for Exposomics. Frontiers in Public Health, 2021, 9, 755837.	1.3	2
101	Prevention â€“ Passive smoking and pregnancy. European Journal of Cancer, Supplement, 2013, 11, 242-247.	2.2	1
102	Prenatal Air Pollution and Newborns' Predisposition to Accelerated Biological Aging. Obstetrical and Gynecological Survey, 2018, 73, 259-260.	0.2	1
103	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
104	Altered neonatal cord blood oxylipidome in association with exposure to particulate matter in the early life environment. Archives of Public Health, 2015, 73, .	1.0	0
105	{In utero} paraben exposure and evidence of obesogenic effects - Associations between placental ethyl paraben and cord blood metabolic biomarkers. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
106	Blood gene expression of candidate genes in environmental carcinogenesis in association with particulate air pollution. ISEE Conference Abstracts, 2013, 2013, 5352.	0.0	0
107	Epigenome-Wide Dna Methylation Profiles And Exposure To Ambient Air Pollution. ISEE Conference Abstracts, 2015, 2015, 816.	0.0	0
108	Recent exposure to ultrafine particles in school children alters miR-222 expression in the extracellular fraction of saliva. ISEE Conference Abstracts, 2016, 2016, .	0.0	0

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109	Placental mtDNA content and environmental exposure: a multipollutant approach. ISEE Conference Abstracts, 2016, 2016, .	0.0	0
110	Air pollution and incidence of gastric and upper aerodigestive tract cancer in 15 European cohorts. ISEE Conference Abstracts, 2016, 2016, .	0.0	0
111	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
112	Outdoor air pollution and risk for kidney parenchyma cancer in 14 European cohorts. ISEE Conference Abstracts, 2016, 2016, .	0.0	0
113	A sex-specific blood transcriptome signature predicts particulate matter exposure among middle-aged men and women. ISEE Conference Abstracts, 2016, 2016, .	0.0	0
114	A Multi-Omic Analysis of Birthweight in Newborn Cord Blood. SSRN Electronic Journal, 0, , .	0.4	0