Flemming R Cassee

List of Publications by Citations

191 papers	12,026 citations	64 h-index	107 g-index
219 ext. papers	13,585 ext. citations	6.1 avg, IF	6.02 L-index

#	Paper	IF	Citations
191	Black carbon as an additional indicator of the adverse health effects of airborne particles compared with PM10 and PM2.5. *Environmental Health Perspectives*, **2011**, 119, 1691-9	8.4	666
190	Adverse cardiovascular effects of air pollution. *Nature Clinical Practice Cardiovascular Medicine*, **2009**, 6, 36-44		503
189	Evaluating the toxicity of airborne particulate matter and nanoparticles by measuring oxidative stress potential--a workshop report and consensus statement. *Inhalation Toxicology*, **2008**, 20, 75-99	2.7	407
188	What do we (need to) know about the kinetic properties of nanoparticles in the body?. *Regulatory Toxicology and Pharmacology*, **2007**, 49, 217-29	3.4	307
187	Particulate matter beyond mass: recent health evidence on the role of fractions, chemical constituents and sources of emission. *Inhalation Toxicology*, **2013**, 25, 802-12	2.7	288
186	Inhaled Nanoparticles Accumulate at Sites of Vascular Disease. *ACS Nano*, **2017**, 11, 4542-4552	16.7	287
185	Exposure, health and ecological effects review of engineered nanoscale cerium and cerium oxide associated with its use as a fuel additive. *Critical Reviews in Toxicology*, **2011**, 41, 213-29	5.7	262
184	Do inhaled carbon nanoparticles translocate directly into the circulation in humans?. *American Journal of Respiratory and Critical Care Medicine*, **2006**, 173, 426-31	10.2	247
183	Respiratory health effects of airborne particulate matter: the role of particle size, composition, and oxidative potential-the RAPTES project. *Environmental Health Perspectives*, **2012**, 120, 1183-9	8.4	238
182	Diesel exhaust inhalation increases thrombus formation in man. *European Heart Journal*, **2008**, 29, 3043-51	9.5	223
181	Urban air quality: the challenge of traffic non-exhaust emissions. *Journal of Hazardous Materials*, **2014**, 275, 31-6	12.8	221
180	In-vitro cell exposure studies for the assessment of nanoparticle toxicity in the lung—A dialog between aerosol science and biology. *Journal of Aerosol Science*, **2011**, 42, 668-692	4.3	215
179	In vitro toxicity of particulate matter (PM) collected at different sites in the Netherlands is associated with PM composition, size fraction and oxidative potential--the RAPTES project. *Particle and Fibre Toxicology*, **2011**, 8, 26	8.4	211
178	Nanomaterials Versus Ambient Ultrafine Particles: An Opportunity to Exchange Toxicology Knowledge. *Environmental Health Perspectives*, **2017**, 125, 106002	8.4	210
177	Physicochemical characteristics of nanomaterials that affect pulmonary inflammation. *Particle and Fibre Toxicology*, **2014**, 11, 18	8.4	201
176	Oxidative potential of particulate matter collected at sites with different source characteristics. *Science of the Total Environment*, **2014**, 472, 572-81	10.2	184
175	Reducing personal exposure to particulate air pollution improves cardiovascular health in patients with coronary heart disease. *Environmental Health Perspectives*, **2012**, 120, 367-72	8.4	177

174	Toxicological evaluation and risk assessment of chemical mixtures. *Critical Reviews in Toxicology*, **1998**, 28, 73-101	5.7	177
173	Neurodegenerative and neurological disorders by small inhaled particles. *NeuroToxicology*, **2016**, 56, 94-106	4.4	175
172	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. *ALTEX: Alternatives To Animal Experimentation*, **2016**, 33, 272-321	4.3	161
171	Combustion-derived nanoparticulate induces the adverse vascular effects of diesel exhaust inhalation. *European Heart Journal*, **2011**, 32, 2660-71	9.5	149
170	Short-term effects of PM2.5, PM10 and PM2.5-10 on daily mortality in The Netherlands. *Science of the Total Environment*, **2013**, 463-464, 20-6	10.2	146
169	Chemical characteristics and oxidative potential of particulate matter emissions from gasoline, diesel, and biodiesel cars. *Environmental Science & Technology*, **2009**, 43, 6334-40	10.3	144
168	Response of human alveolar macrophages to ultrafine, fine, and coarse urban air pollution particles. *Experimental Lung Research*, **2003**, 29, 29-44	2.3	143
167	Beneficial cardiovascular effects of reducing exposure to particulate air pollution with a simple facemask. *Particle and Fibre Toxicology*, **2009**, 6, 8	8.4	141
166	Particle traps prevent adverse vascular and prothrombotic effects of diesel engine exhaust inhalation in men. *Circulation*, **2011**, 123, 1721-8	16.7	140
165	Oxidative potential of semi-volatile and non volatile particulate matter (PM) from heavy-duty vehicles retrofitted with emission control technologies. *Environmental Science & Technology*, **2009**, 43, 3905-12	10.3	140
164	Considerations on the EU definition of a nanomaterial: science to support policy making. *Regulatory Toxicology and Pharmacology*, **2013**, 65, 119-25	3.4	132
163	Particle size dependent deposition and pulmonary inflammation after short-term inhalation of silver nanoparticles. *Particle and Fibre Toxicology*, **2014**, 11, 49	8.4	130
162	Expert elicitation on ultrafine particles: likelihood of health effects and causal pathways. *Particle and Fibre Toxicology*, **2009**, 6, 19	8.4	130
161	Impact of agglomeration state of nano- and submicron sized gold particles on pulmonary inflammation. *Particle and Fibre Toxicology*, **2010**, 7, 37	8.4	130
160	Physicochemical and toxicological profiles of particulate matter in Los Angeles during the October 2007 southern California wildfires. *Environmental Science & Technology*, **2009**, 43, 954-60	10.3	124
159	Tissue distribution of inhaled micro- and nano-sized cerium oxide particles in rats: results from a 28-day exposure study. *Toxicological Sciences*, **2012**, 127, 463-73	4.4	122
158	The policy relevance of wear emissions from road transport, now and in the future--an international workshop report and consensus statement. *Journal of the Air and Waste Management Association*, **2013**, 63, 136-49	2.4	122
157	Cytokine release from alveolar macrophages exposed to ambient particulate matter: heterogeneity in relation to size, city and season. *Particle and Fibre Toxicology*, **2005**, 2, 4	8.4	121

156	Atmospheric secondary inorganic particulate matter: the toxicological perspective as a basis for health effects risk assessment. *Inhalation Toxicology*, **2003**, 15, 197-235	2.7	118
155	A perspective on the developmental toxicity of inhaled nanoparticles. *Reproductive Toxicology*, **2015**, 56, 118-40	3.4	117
154	Effect of prolonged exposure to diesel engine exhaust on proinflammatory markers in different regions of the rat brain. *Particle and Fibre Toxicology*, **2010**, 7, 12	8.4	117
153	Diesel exhaust particles induce CYP1A1 and pro-inflammatory responses via differential pathways in human bronchial epithelial cells. *Particle and Fibre Toxicology*, **2010**, 7, 41	8.4	114
152	Measurement of the oxidative potential of PM2.5 and its constituents: The effect of extraction solvent and filter type. *Atmospheric Environment*, **2014**, 83, 35-42	5.3	113
151	Health effects and time course of particulate matter on the cardiopulmonary system in rats with lung inflammation. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2002**, 65, 1571-95	2.2	109
150	Physicochemical characterisation of combustion particles from vehicle exhaust and residential wood smoke. *Particle and Fibre Toxicology*, **2006**, 3, 1	8.4	107
149	Exposure to concentrated ambient particles does not affect vascular function in patients with coronary heart disease. *Environmental Health Perspectives*, **2008**, 116, 709-15	8.4	97
148	A Multilaboratory Toxicological Assessment of a Panel of 10 Engineered Nanomaterials to Human Health--ENPRA Project--The Highlights, Limitations, and Current and Future Challenges. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews*, **2016**, 19, 1-28	8.6	96
147	Children's respiratory health and oxidative potential of PM2.5: the PIAMA birth cohort study. *Occupational and Environmental Medicine*, **2016**, 73, 154-60	2.1	94
146	Particle size-dependent total mass deposition in lungs determines inhalation toxicity of cadmium chloride aerosols in rats. Application of a multiple path dosimetry model. *Archives of Toxicology*, **2002**, 76, 277-86	5.8	91
145	Towards a nanospecific approach for risk assessment. *Regulatory Toxicology and Pharmacology*, **2016**, 80, 46-59	3.4	88
144	The Yin: An adverse health perspective of nanoceria: uptake, distribution, accumulation, and mechanisms of its toxicity. *Environmental Science: Nano*, **2014**, 1, 406-428	7.1	88
143	Organ burden and pulmonary toxicity of nano-sized copper (II) oxide particles after short-term inhalation exposure. *Nanotoxicology*, **2016**, 10, 1084-95	5.3	87
142	Particle toxicology and health - where are we?. *Particle and Fibre Toxicology*, **2019**, 16, 19	8.4	83
141	Neurobehavioral effects of exposure to traffic-related air pollution and transportation noise in primary schoolchildren. *Environmental Research*, **2012**, 115, 18-25	7.9	83
140	Associations between three specific a-cellular measures of the oxidative potential of particulate matter and markers of acute airway and nasal inflammation in healthy volunteers. *Occupational and Environmental Medicine*, **2015**, 72, 49-56	2.1	81
139	Contrasts in oxidative potential and other particulate matter characteristics collected near major streets and background locations. *Environmental Health Perspectives*, **2012**, 120, 185-91	8.4	78

138	Effects of ambient air pollution on hemostasis and inflammation. *Environmental Health Perspectives* , **2009**, 117, 995-1001	8.4	77
137	Toxicity of coarse and fine particulate matter from sites with contrasting traffic profiles. *Inhalation Toxicology*, **2007**, 19, 1055-69	2.7	77
136	Physicochemical characterization of airborne particulate matter at a mainline underground railway station. *Environmental Science & Technology*, **2013**, 47, 3614-22	10.3	74
135	Impact of low emission zones and local traffic policies on ambient air pollution concentrations. *Science of the Total Environment*, **2012**, 435-436, 132-40	10.2	73
134	Associations of urban air particulate composition with inflammatory and cytotoxic responses in RAW 246.7 cell line. *Inhalation Toxicology*, **2009**, 21, 994-1006	2.7	73
133	Silver nanoparticles inhaled during pregnancy reach and affect the placenta and the foetus. *Nanotoxicology*, **2017**, 11, 687-698	5.3	70
132	Particle induced toxicity in relation to transition metal and polycyclic aromatic hydrocarbon contents. *Environmental Science & Technology*, **2009**, 43, 4729-36	10.3	70
131	Considerations for Safe Innovation: The Case of Graphene. *ACS Nano*, **2017**, 11, 9574-9593	16.7	68
130	The biological effects of subacute inhalation of diesel exhaust following addition of cerium oxide nanoparticles in atherosclerosis-prone mice. *Environmental Research*, **2012**, 115, 1-10	7.9	67
129	Relation between sources of particulate air pollution and biological effect parameters in samples from four European cities: an exploratory study. *Inhalation Toxicology*, **2006**, 18, 333-46	2.7	65
128	International issues on human health effects of exposure to chemical mixtures. *Environmental Health Perspectives*, **2002**, 110 Suppl 6, 893-9	8.4	65
127	Air pollution exposure affects circulating white blood cell counts in healthy subjects: the role of particle composition, oxidative potential and gaseous pollutants - the RAPTES project. *Inhalation Toxicology*, **2014**, 26, 141-65	2.7	61
126	Comparative evaluation of the effects of short-term inhalation exposure to diesel engine exhaust on rat lung and brain. *Archives of Toxicology*, **2010**, 84, 553-62	5.8	61
125	Wood smoke particles from different combustion phases induce similar pro-inflammatory effects in a co-culture of monocyte and pneumocyte cell lines. *Particle and Fibre Toxicology*, **2012**, 9, 45	8.4	58
124	Maternal exposure to diluted diesel engine exhaust alters placental function and induces intergenerational effects in rabbits. *Particle and Fibre Toxicology*, **2016**, 13, 39	8.4	56
123	Cell toxicity and oxidative potential of engine exhaust particles: impact of using particulate filter or biodiesel fuel blend. *Environmental Science & Technology*, **2013**, 47, 5931-8	10.3	56
122	Identification of the appropriate dose metric for pulmonary inflammation of silver nanoparticles in an inhalation toxicity study. *Nanotoxicology*, **2016**, 10, 63-73	5.3	54
121	Differential proinflammatory responses induced by diesel exhaust particles with contrasting PAH and metal content. *Environmental Toxicology*, **2015**, 30, 188-96	4.2	51

120	Diesel engine exhaust accelerates plaque formation in a mouse model of Alzheimer's disease. *Particle and Fibre Toxicology*, **2017**, 14, 35	8.4	51
119	Comparative hazard identification of nano- and micro-sized cerium oxide particles based on 28-day inhalation studies in rats. *Nanotoxicology*, **2014**, 8, 643-53	5.3	51
118	The effects on bronchial epithelial mucociliary cultures of coarse, fine, and ultrafine particulate matter from an underground railway station. *Toxicological Sciences*, **2015**, 145, 98-107	4.4	50
117	Spatial Variation and Land Use Regression Modeling of the Oxidative Potential of Fine Particles. *Environmental Health Perspectives*, **2015**, 123, 1187-92	8.4	50
116	Toxicity of copper oxide and basic copper carbonate nanoparticles after short-term oral exposure in rats. *Nanotoxicology*, **2019**, 13, 50-72	5.3	48
115	Comparative hazard identification by a single dose lung exposure of zinc oxide and silver nanomaterials in mice. *PLoS ONE*, **2015**, 10, e0126934	3.7	45
114	Air pollution and health: bridging the gap from sources to health outcomes: conference summary. *Air Quality, Atmosphere and Health*, **2012**, 5, 9-62	5.6	44
113	Composition of PM affects acute vascular inflammatory and coagulative markers - the RAPTES project. *PLoS ONE*, **2013**, 8, e58944	3.7	42
112	Impact of serum as a dispersion agent for in vitro and in vivo toxicological assessments of TiO nanoparticles. *Archives of Toxicology*, **2017**, 91, 353-363	5.8	41
111	Determinants of the proinflammatory action of ambient particulate matter in immortalized murine macrophages. *Environmental Health Perspectives*, **2010**, 118, 1728-34	8.4	41
110	Vascular effects of ambient particulate matter instillation in spontaneous hypertensive rats. *Toxicology and Applied Pharmacology*, **2004**, 197, 29-39	4.6	38
109	Effects of particulate matter on the pulmonary and vascular system: time course in spontaneously hypertensive rats. *Particle and Fibre Toxicology*, **2005**, 2, 2	8.4	37
108	Acute nasal pro-inflammatory response to air pollution depends on characteristics other than particle mass concentration or oxidative potential: the RAPTES project. *Occupational and Environmental Medicine*, **2013**, 70, 341-8	2.1	36
107	Transcriptional profiling reveals gene expression changes associated with inflammation and cell proliferation following short-term inhalation exposure to copper oxide nanoparticles. *Journal of Applied Toxicology*, **2018**, 38, 385-397	4.1	32
106	Grouping nanomaterials to predict their potential to induce pulmonary inflammation. *Toxicology and Applied Pharmacology*, **2016**, 299, 3-7	4.6	32
105	Intrinsic hydroxyl radical generation measurements directly from sampled filters as a metric for the oxidative potential of ambient particulate matter. *Journal of Aerosol Science*, **2014**, 72, 47-55	4.3	30
104	Variation in characteristics of ambient particulate matter at eight locations in the Netherlands The RAPTES project. *Atmospheric Environment*, **2011**, 45, 4442-4453	5.3	30
103	Trends in relative risk estimates for the association between air pollution and mortality in The Netherlands, 1992-2006. *Environmental Research*, **2011**, 111, 94-100	7.9	28

102	Recent outcomes in European multicentre projects on ambient particulate air pollution. *Toxicology and Applied Pharmacology*, **2005**, 207, 261-8	4.6	28
101	Inhalation of concentrated particulate matter produces pulmonary inflammation and systemic biological effects in compromised rats. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2005**, 68, 773-96	3.2	27
100	Aggregation State of Metal-Based Nanomaterials at the Pulmonary Surfactant Film Determines Biophysical Inhibition. *Environmental Science & Technology*, **2018**, 52, 8920-8929	10.3	26
99	Controlled exposures to air pollutants and risk of cardiac arrhythmia. *Environmental Health Perspectives*, **2014**, 122, 747-53	8.4	26
98	Towards a Consensus View on Understanding Nanomaterials Hazards and Managing Exposure: Knowledge Gaps and Recommendations. *Materials*, **2013**, 6, 1090-1117	3.5	25
97	Ambient particulate matter affects cardiac recovery in a Langendorff ischemia model. *Inhalation Toxicology*, **2006**, 18, 633-43	2.7	25
96	Response of spontaneously hypertensive rats to inhalation of fine and ultrafine particles from traffic: experimental controlled study. *Particle and Fibre Toxicology*, **2006**, 3, 7	8.4	25
95	Temporal and spatial variation of the metal-related oxidative potential of PM 2.5 and its relation to PM 2.5 mass and elemental composition. *Atmospheric Environment*, **2015**, 102, 62-69	5.3	24
94	Respiratory effects of a reduction in outdoor air pollution concentrations. *Epidemiology*, **2013**, 24, 753-61	3.1	23
93	Oxidative stress and DNA damage responses in rat and mouse lung to inhaled carbon nanoparticles. *Nanotoxicology*, **2011**, 5, 66-78	5.3	23
92	The effect of particulate matter on resistance and conductance vessels in the rat. *Inhalation Toxicology*, **2004**, 16, 431-6	2.7	23
91	Biochemical and histopathological changes in nasal epithelium of rats after 3-day intermittent exposure to formaldehyde and ozone alone or in combination. *Toxicology Letters*, **1994**, 72, 257-68	4.4	23
90	Pro-inflammatory responses to PM from airport and urban traffic emissions. *Science of the Total Environment*, **2018**, 640-641, 997-1003	10.2	21
89	Fine ambient particles from various sites in europe exerted a greater IgE adjuvant effect than coarse ambient particles in a mouse model. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2009**, 72, 1-13	3.2	21
88	Components of ambient air pollution affect thrombin generation in healthy humans: the RAPTES project. *Occupational and Environmental Medicine*, **2013**, 70, 332-40	2.1	20
87	Particulate air pollution, coronary heart disease and individual risk assessment: a general overview. *European Journal of Cardiovascular Prevention and Rehabilitation*, **2009**, 16, 10-5		20
86	Combined oral benzo[a]pyrene and inhalatory ozone exposure have no effect on lung tumor development in DNA repair-deficient Xpa mice. *Carcinogenesis*, **2003**, 24, 613-9	4.6	20
85	Pulmonary and cardiovascular effects of traffic-related particulate matter: 4-week exposure of rats to roadside and diesel engine exhaust particles. *Inhalation Toxicology*, **2010**, 22, 1162-73	2.7	19

84	Toxicity of formaldehyde and acrolein mixtures: in vitro studies using nasal epithelial cells. *Experimental and Toxicologic Pathology*, **1996**, 48, 481-3		19
83	A single-particle characterization of a mobile Versatile Aerosol Concentration Enrichment System for exposure studies. *Particle and Fibre Toxicology*, **2006**, 3, 8	8.4	18
82	Multi-omics approaches confirm metal ions mediate the main toxicological pathways of metal-bearing nanoparticles in lung epithelial A549 cells. *Environmental Science: Nano*, **2018**, 5, 1506-1517	7.1	18
81	Quantitative human health risk assessment along the lifecycle of nano-scale copper-based wood preservatives. *Nanotoxicology*, **2018**, 12, 747-765	5.3	17
80	Deciphering the Impact of Early-Life Exposures to Highly Variable Environmental Factors on Foetal and Child Health: Design of SEPAGES Couple-Child Cohort. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	17
79	Differences in the toxicity of cerium dioxide nanomaterials after inhalation can be explained by lung deposition, animal species and nanoforms. *Inhalation Toxicology*, **2018**, 30, 273-286	2.7	17
78	Repeated gestational exposure to diesel engine exhaust affects the fetal olfactory system and alters olfactory-based behavior in rabbit offspring. *Particle and Fibre Toxicology*, **2019**, 16, 5	8.4	16
77	Radical scavenging reaction kinetics with multiwalled carbon nanotubes. *Carbon*, **2015**, 83, 232-239	10.4	16
76	Nanoparticle exposure and hazard in the ceramic industry: an overview of potential sources, toxicity and health effects. *Environmental Research*, **2020**, 184, 109297	7.9	16
75	Brain suppression of AP-1 by inhaled diesel exhaust and reversal by cerium oxide nanoparticles. *Inhalation Toxicology*, **2014**, 26, 636-41	2.7	15
74	Microbiome composition of airborne particulate matter from livestock farms and their effect on innate immune receptors and cells. *Science of the Total Environment*, **2019**, 688, 1298-1307	10.2	13
73	The inflammatory response in lungs of rats exposed on the airborne particles collected during different seasons in four European cities. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2011**, 46, 1469-81	2.3	13
72	The impact of frying aerosol on human brain activity. *NeuroToxicology*, **2019**, 74, 149-161	4.4	12
71	Pulmonary toxicity in rats following inhalation exposure to poorly soluble particles: The issue of impaired clearance and the relevance for human health hazard and risk assessment. *Regulatory Toxicology and Pharmacology*, **2019**, 109, 104498	3.4	12
70	Comparative toxicity of ultrafine particles around a major airport in human bronchial epithelial (Calu-3) cell model at the air-liquid interface. *Toxicology in Vitro*, **2020**, 68, 104950	3.6	12
69	Relative contributions of a major international airport activities and other urban sources to the particle number concentrations (PNCs) at a nearby monitoring site. *Environmental Pollution*, **2020**, 260, 114027	9.3	11
68	The effect of zirconium doping of cerium dioxide nanoparticles on pulmonary and cardiovascular toxicity and biodistribution in mice after inhalation. *Nanotoxicology*, **2017**, 11, 794-808	5.3	11
67	Black Smoke as an Additional Indicator to Evaluate the Health Benefits of Traffic-related Policy Measures: A Systematic Review of the Health Effects of Black Smoke Compared to PM Mass. *Epidemiology*, **2011**, 22, S199-S200	3.1	10

66	Differences in cytotoxicity of lung epithelial cells exposed to titanium dioxide nanofibers and nanoparticles: Comparison of air-liquid interface and submerged cell cultures. *Toxicology in Vitro*, **2020**, 65, 104798	3.6	9
65	Nitrogen dioxide exposure attenuates cigarette smoke-induced cytokine production in mice. *Inhalation Toxicology*, **2008**, 20, 183-9	2.7	9
64	Optimization of an air-liquid interface cell co-culture model to estimate the hazard of aerosol exposures. *Journal of Aerosol Science*, **2021**, 153, 105703	4.3	9
63	Evaluation of neurological effects of cerium dioxide nanoparticles doped with different amounts of zirconium following inhalation exposure in mouse models of Alzheimer's and vascular disease. *Neurochemistry International*, **2020**, 138, 104755	4.4	8
62	An Air-liquid Interface Bronchial Epithelial Model for Realistic, Repeated Inhalation Exposure to Airborne Particles for Toxicity Testing. *Journal of Visualized Experiments*, **2020**,	1.6	8
61	Agreement of central site measurements and land use regression modeled oxidative potential of PM2.5 with personal exposure. *Environmental Research*, **2015**, 140, 397-404	7.9	7
60	Effects of first-generation in utero exposure to diesel engine exhaust on second-generation placental function, fatty acid profiles and foetal metabolism in rabbits: preliminary results. *Scientific Reports*, **2019**, 9, 9710	4.9	7
59	Diesel engine exhaust initiates a sequence of pulmonary and cardiovascular effects in rats. *Journal of Toxicology*, **2010**, 2010, 206057	3.1	7
58	Ozone induces clear cellular and molecular responses in the mouse lung independently of the transcription-coupled repair status. *Journal of Applied Physiology*, **2007**, 102, 1185-92	3.7	7
57	Lung inflammation and thrombogenic responses in a time course study of Csb mice exposed to ozone. *Journal of Applied Toxicology*, **2008**, 28, 779-87	4.1	7
56	Mixtures **1999**, 257-270		7
55	A new approach to design safe CNTs with an understanding of redox potential. *Particle and Fibre Toxicology*, **2013**, 10, 44	8.4	5
54	Absence of trends in relative risk estimates for the association between Black Smoke and daily mortality over a 34 years period in The Netherlands. *Atmospheric Environment*, **2009**, 43, 481-485	5.3	5
53	Livestock farm particulate matter enhances airway inflammation in mice with or without allergic airway disease. *World Allergy Organization Journal*, **2020**, 13, 100114	5.2	4
52	Role of chemical composition and redox modification of poorly soluble nanomaterials on their ability to enhance allergic airway sensitisation in mice. *Particle and Fibre Toxicology*, **2019**, 16, 39	8.4	4
51	Human Exposure Studies **2011**, 217-239		4
50	Toxicity of inhaled traffic related particulate matter. *Journal of Physics: Conference Series*, **2009**, 151, 012049	0.3	4
49	Development and Evaluation of a Compact, Highly Efficient Coarse Particle Concentrator for Toxicological Studies. *Aerosol Science and Technology*, **2002**, 36, 492-501	3.4	4

48	Toxicity assessment of industrial engineered and airborne process-generated nanoparticles in a 3D human airway epithelial model. *Nanotoxicology*, **2021**, 15, 542-557	5.3	4
47	Pulmonary toxicity and gene expression changes after short-term inhalation exposure to surface-modified copper oxide nanoparticles.. *NanoImpact*, **2021**, 22, 100313	5.6	4
46	Airborne particulate matter and acute lung inflammation: Strak et al. Respond. *Environmental Health Perspectives*, **2013**, 121, A11-2	8.4	3
45	High and low volume sampling of particulate matter at sites with different traffic profiles in the Netherlands and Germany: Results from the HEPMEAP study. *Atmospheric Environment*, **2008**, 42, 1110-1120	5.3	3
44	International Workshop on the Design and Analysis of Experimental Studies using PM Concentrator Technologies, Boston, May 5, 2004. *Inhalation Toxicology*, **2005**, 17, 839-50	2.7	3
43	Changes in the Nasal Epithelium of Rats Exposed by Inhalation to Mixtures of Formaldehyde, Acetaldehyde, and Acrolein. *Toxicological Sciences*, **1996**, 29, 208-218	4.4	3
42	Upregulation of epithelial metallothioneins by metal-rich ultrafine particulate matter from an underground railway. *Metallomics*, **2020**, 12, 1070-1082	4.5	3
41	The Road to Achieving the European Commission's Chemicals Strategy for Nanomaterial Sustainability-A PATROLS Perspective on New Approach Methodologies.. *Small*, **2022**, e2200231	11	3
40	Ex vivo innate responses to particulate matter from livestock farms in asthma patients and healthy individuals. *Environmental Health*, **2020**, 19, 78	6	2
39	Particles and the Vascular Endothelium **2011**, 379-402		2
38	Chronic Effects of Air Pollution on Cardiovascular Health **2011**, 45-57		2
37	Gold nanoparticles translocate from the lung into the blood in man and accumulate at sites of vascular inflammation in apolipoproteinE knockout mice **2015**,		2
36	Prenatal air pollution exposure to diesel exhaust induces cardiometabolic disorders in adulthood in a sex-specific manner. *Environmental Research*, **2021**, 200, 111690	7.9	2
35	Ken Donaldson: retirement of a young mind. *Particle and Fibre Toxicology*, **2013**, 10, 8	8.4	1
34	Experimental Studies in Animals **2011**, 185-215		1
33	Panel Studies **2011**, 241-248		1
32	Effects of Nanoparticles on the Pulmonary Vasculature **2011**, 317-350		1
31	Particulate Matter, Hypertension, and the Metabolic Syndrome **2011**, 351-377		1

30	Acute Effects of Particulate Matter on the Risk of Myocardial Infarction **2011**, 23-43		1
29	Particle Characterization **2011**, 59-87		1
28	Translocation of Inhaled Nanoparticles **2011**, 125-143		1
27	Role of Chemical Composition in Determining the Cardiovascular Effects of Particles **2011**, 145-167		1
26	Physical, Chemical, and Oxidative Characterization of Particles From Locations With Contrast in Local Source Emissions: Exposure and Health Assessment in the Raptes Study. *Epidemiology*, **2011**, 22, S219	3.1	1
25	The Impact of Short-Term Exposure to Air Pollution on the Exhaled Breath of Healthy Adults. *Sensors*, **2021**, 21,	3.8	1
24	Silica encapsulation of ZnO nanoparticles reduces their toxicity for cumulus cell-oocyte-complex expansion. *Particle and Fibre Toxicology*, **2021**, 18, 33	8.4	1
23	In vitro hazard characterization of simulated aircraft cabin bleed-air contamination in lung models using an air-liquid interface (ALI) exposure system. *Environment International*, **2021**, 156, 106718	12.9	1
22	TUBE Project: Transport-Derived Ultrafines and the Brain Effects.. *International Journal of Environmental Research and Public Health*, **2021**, 19,	4.6	1
21	Relationship Between Particle Properties and Immunotoxicological Effects of Environmentally-Sourced Microplastics. *Frontiers in Water*, **2022**, 4,	2.6	1
20	From Ambient Ultrafine Particles to Nanotechnology and Nanotoxicology **2011**, 525-543		0
19	From small to clever: What does the future hold for the safety and sustainability of advanced materials?. *Nano Today*, **2022**, 42, 101364	17.9	0
18	Household air pollution from, and fuel efficiency of, different coal types following local cooking practices in Xuanwei, China. *Environmental Pollution*, **2021**, 290, 117949	9.3	0
17	Airborne particulate matter from goat farm increases acute allergic airway responses in mice. *Inhalation Toxicology*, **2020**, 32, 265-277	2.7	
16	Response to letter to editor "Pulmonary toxicity in rats following inhalation exposure to poorly soluble particles of low toxicity: Testing at excessive concentrations overwhelming lung clearance"?. *Regulatory Toxicology and Pharmacology*, **2020**, 112, 104593	3.4	
15	Particulates and Oxidative Stress **2011**, 249-271		
14	Role of Inflammation in the Atherogenic Effects of Particulate Matter **2011**, 273-285		
13	Inhaled Particles, Postprandial Lipids, and their Possible Contribution to Atherogenesisc: The Trojan Horse Hypothesis **2011**, 287-293		

12 Inhaled Particulate Matter and Atherosclerosis in Humans **2011**, 295-316

11 Particles, Coagulation, and Thrombosis **2011**, 403-420

10 Particles and the Pathogenesis of Atherothrombosis **2011**, 421-437

9 Particles and the Autonomic Nervous System **2011**, 439-466

8 Air Pollution and Arrhythmia **2011**, 467-482

7 Environmental Regulation of Particulate Matter **2011**, 497-523

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