

Wolfgang Kreyling

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194
papers

20,357
citations

69
h-index

142
g-index

208
ext. papers

22,077
ext. citations

5.9
avg, IF

6.34
L-index

#	Paper	IF	Citations
194	Translocation of inhaled ultrafine particles to the brain. <i>Inhalation Toxicology</i> , 2004 , 16, 437-45	2.7	1744
193	Principles for characterizing the potential human health effects from exposure to nanomaterials: elements of a screening strategy. <i>Particle and Fibre Toxicology</i> , 2005 , 2, 8	8.4	1418
192	Ultrafine particles cross cellular membranes by nonphagocytic mechanisms in lungs and in cultured cells. <i>Environmental Health Perspectives</i> , 2005 , 113, 1555-60	8.4	994
191	The potential risks of nanomaterials: a review carried out for ECETOC. <i>Particle and Fibre Toxicology</i> , 2006 , 3, 11	8.4	870
190	Extrapulmonary translocation of ultrafine carbon particles following whole-body inhalation exposure of rats. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2002 , 65, 1531-43 ²	3.2	741
189	Translocation of ultrafine insoluble iridium particles from lung epithelium to extrapulmonary organs is size dependent but very low. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2002 , 65, 1513-30	3.2	693
188	Deposition and biokinetics of inhaled nanoparticles. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 2	8.4	448
187	Particle size-dependent and surface charge-dependent biodistribution of gold nanoparticles after intravenous administration. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 77, 407-16	5.7	424
186	Biodistribution of PEG-modified gold nanoparticles following intratracheal instillation and intravenous injection. <i>Biomaterials</i> , 2010 , 31, 6574-81	15.6	411
185	Biodistribution of 1.4- and 18-nm gold particles in rats. <i>Small</i> , 2008 , 4, 2108-11	11	408
184	Particulate air pollution and risk of ST-segment depression during repeated submaximal exercise tests among subjects with coronary heart disease: the Exposure and Risk Assessment for Fine and Ultrafine Particles in Ambient Air (ULTRA) study. <i>Circulation</i> , 2002 , 106, 933-8	16.7	321
183	Long-term clearance kinetics of inhaled ultrafine insoluble iridium particles from the rat lung, including transient translocation into secondary organs. <i>Inhalation Toxicology</i> , 2004 , 16, 453-9	2.7	314
182	Health effects of particles in ambient air. <i>International Journal of Hygiene and Environmental Health</i> , 2004 , 207, 399-407	6.9	313
181	Multifunctional Nanocarriers for diagnostics, drug delivery and targeted treatment across blood-brain barrier: perspectives on tracking and neuroimaging. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 3	8.4	310
180	Size dependence of the translocation of inhaled iridium and carbon nanoparticle aggregates from the lung of rats to the blood and secondary target organs. <i>Inhalation Toxicology</i> , 2009 , 21 Suppl 1, 55-60 ²	2.7	295
179	Toxicological hazards of inhaled nanoparticles--potential implications for drug delivery. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 521-31	1.3	272
178	Size and surface charge of gold nanoparticles determine absorption across intestinal barriers and accumulation in secondary target organs after oral administration. <i>Nanotoxicology</i> , 2012 , 6, 36-46	5.3	270

177	In vivo integrity of polymer-coated gold nanoparticles. <i>Nature Nanotechnology</i> , 2015 , 10, 619-23	28.7	269
176	Deposition, retention, and translocation of ultrafine particles from the central airways and lung periphery. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008 , 177, 426-32	10.2	258
175	Ultrafine particle-lung interactions: does size matter??. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2006 , 19, 74-83		253
174	Epidemiological evidence on health effects of ultrafine particles. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2002 , 15, 189-201		249
173	Health implications of nanoparticles. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 543-562	2.3	222
172	In-vitro cell exposure studies for the assessment of nanoparticle toxicity in the lung: a dialog between aerosol science and biology. <i>Journal of Aerosol Science</i> , 2011 , 42, 668-692	4.3	215
171	Efficient elimination of inhaled nanoparticles from the alveolar region: evidence for interstitial uptake and subsequent reentrainment onto airways epithelium. <i>Environmental Health Perspectives</i> , 2007 , 115, 728-33	8.4	212
170	Nanomaterials Versus Ambient Ultrafine Particles: An Opportunity to Exchange Toxicology Knowledge. <i>Environmental Health Perspectives</i> , 2017 , 125, 106002	8.4	210
169	Increased asthma medication use in association with ambient fine and ultrafine particles. <i>European Respiratory Journal</i> , 2002 , 20, 691-702	13.6	210
168	A complementary definition of nanomaterial. <i>Nano Today</i> , 2010 , 5, 165-168	17.9	197
167	The role of macrophages in the clearance of inhaled ultrafine titanium dioxide particles. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008 , 38, 371-6	5.7	177
166	Daily mortality and particulate matter in different size classes in Erfurt, Germany. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2007 , 17, 458-67	6.7	170
165	Air-blood barrier translocation of tracheally instilled gold nanoparticles inversely depends on particle size. <i>ACS Nano</i> , 2014 , 8, 222-33	16.7	167
164	Concentrations of ultrafine, fine and PM2.5 particles in three European cities. <i>Atmospheric Environment</i> , 2001 , 35, 3729-3738	5.3	160
163	Effects of ultrafine and fine particulate and gaseous air pollution on cardiac autonomic control in subjects with coronary artery disease: the ULTRA study. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2006 , 16, 332-41	6.7	157
162	Distribution pattern of inhaled ultrafine gold particles in the rat lung. <i>Inhalation Toxicology</i> , 2006 , 18, 733-40	2.7	149
161	Differences in the biokinetics of inhaled nano- versus micrometer-sized particles. <i>Accounts of Chemical Research</i> , 2013 , 46, 714-22	24.3	147
160	Dosimetry and toxicology of ultrafine particles. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2004 , 17, 140-52		147

159	Polyethylenimines for RNAi-mediated gene targeting in vivo and siRNA delivery to the lung. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 77, 438-49	5.7	146
158	Evaluating the uptake and intracellular fate of polystyrene nanoparticles by primary and hepatocyte cell lines in vitro. <i>Toxicology and Applied Pharmacology</i> , 2010 , 242, 66-78	4.6	142
157	Effects of particulate air pollution on blood pressure and heart rate in subjects with cardiovascular disease: a multicenter approach. <i>Environmental Health Perspectives</i> , 2004 , 112, 369-77	8.4	138
156	Expert elicitation on ultrafine particles: likelihood of health effects and causal pathways. <i>Particle and Fibre Toxicology</i> , 2009 , 6, 19	8.4	130
155	Minimal analytical characterization of engineered nanomaterials needed for hazard assessment in biological matrices. <i>Nanotoxicology</i> , 2011 , 5, 1-11	5.3	126
154	Sources and elemental composition of ambient PM(2.5) in three European cities. <i>Science of the Total Environment</i> , 2005 , 337, 147-62	10.2	124
153	Effects of silver nanoparticles on the liver and hepatocytes in vitro. <i>Toxicological Sciences</i> , 2013 , 131, 537-47	4.4	120
152	Dosimetry and toxicology of inhaled ultrafine particles. <i>Biomarkers</i> , 2009 , 14 Suppl 1, 67-73	2.6	118
151	Engineered nanomaterial risk. Lessons learnt from completed nanotoxicology studies: potential solutions to current and future challenges. <i>Critical Reviews in Toxicology</i> , 2013 , 43, 1-20	5.7	116
150	Elemental composition and sources of fine and ultrafine ambient particles in Erfurt, Germany. <i>Science of the Total Environment</i> , 2003 , 305, 143-56	10.2	115
149	Concentration response functions for ultrafine particles and all-cause mortality and hospital admissions: results of a European expert panel elicitation. <i>Environmental Science & Technology</i> , 2010 , 44, 476-82	10.3	112
148	Biodistribution of gold nanoparticles in mouse lung following intratracheal instillation. <i>Chemistry Central Journal</i> , 2009 , 3, 16		111
147	Negligible clearance of ultrafine particles retained in healthy and affected human lungs. <i>European Respiratory Journal</i> , 2006 , 28, 286-90	13.6	107
146	Dose-controlled exposure of A549 epithelial cells at the air-liquid interface to airborne ultrafine carbonaceous particles. <i>Chemosphere</i> , 2006 , 65, 1784-90	8.4	107
145	Ultrafine particles exert prothrombotic but not inflammatory effects on the hepatic microcirculation in healthy mice in vivo. <i>Circulation</i> , 2004 , 109, 1320-5	16.7	105
144	The effect of primary particle size on biodistribution of inhaled gold nano-agglomerates. <i>Biomaterials</i> , 2013 , 34, 5439-52	15.6	104
143	PVP-coated, negatively charged silver nanoparticles: A multi-center study of their physicochemical characteristics, cell culture and in vivo experiments. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1944-63	3	102
142	Multifunctional nanoparticles for dual imaging. <i>Analytical Chemistry</i> , 2011 , 83, 2877-82	7.8	99

141	No significant translocation of inhaled 35-nm carbon particles to the circulation in humans. <i>Inhalation Toxicology</i> , 2006 , 18, 741-7	2.7	99
140	The allergen Bet v 1 in fractions of ambient air deviates from birch pollen counts. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2010 , 65, 850-8	9.3	96
139	A Multilaboratory Toxicological Assessment of a Panel of 10 Engineered Nanomaterials to Human Health--ENPRA Project--The Highlights, Limitations, and Current and Future Challenges. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2016 , 19, 1-28	8.6	96
138	Effects of fine and ultrafine particles on cardiorespiratory symptoms in elderly subjects with coronary heart disease: the ULTRA study. <i>American Journal of Epidemiology</i> , 2003 , 157, 613-23	3.8	93
137	Blood protein coating of gold nanoparticles as potential tool for organ targeting. <i>Biomaterials</i> , 2014 , 35, 3455-66	15.6	90
136	Serum protein identification and quantification of the corona of 5, 15 and 80 nm gold nanoparticles. <i>Nanotechnology</i> , 2013 , 24, 265103	3.4	85
135	Size dependent translocation and fetal accumulation of gold nanoparticles from maternal blood in the rat. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 33	8.4	84
134	Particle toxicology and health - where are we?. <i>Particle and Fibre Toxicology</i> , 2019 , 16, 19	8.4	83
133	Quantitative biokinetics of titanium dioxide nanoparticles after oral application in rats: Part 2. <i>Nanotoxicology</i> , 2017 , 11, 443-453	5.3	81
132	An interspecies comparison of the lung clearance of inhaled monodisperse cobalt oxide particles Part I: Objectives and summary of results. <i>Journal of Aerosol Science</i> , 1989 , 20, 169-188	4.3	81
131	Measurement techniques for respiratory tract deposition of airborne nanoparticles: a critical review. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2014 , 27, 229-54	3.8	78
130	Protein corona: implications for nanoparticle interactions with pulmonary cells. <i>Particle and Fibre Toxicology</i> , 2017 , 14, 42	8.4	75
129	Interlaboratory comparison of size and surface charge measurements on nanoparticles prior to biological impact assessment. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2675-2687	2.3	74
128	Silver nanoparticles inhaled during pregnancy reach and affect the placenta and the foetus. <i>Nanotoxicology</i> , 2017 , 11, 687-698	5.3	70
127	Comparison of two particle-size spectrometers for ambient aerosol measurements. <i>Atmospheric Environment</i> , 2000 , 34, 139-149	5.3	68
126	Source apportionment of ambient fine particle size distribution using positive matrix factorization in Erfurt, Germany. <i>Science of the Total Environment</i> , 2008 , 398, 133-44	10.2	64
125	Radiolabelling of engineered nanoparticles for in vitro and in vivo tracing applications using cyclotron accelerators. <i>Archives of Toxicology</i> , 2011 , 85, 751-73	5.8	60
124	Electron energy loss spectroscopy for analysis of inhaled ultrafine particles in rat lungs. <i>Microscopy Research and Technique</i> , 2004 , 63, 298-305	2.8	60

123	Short-term mortality rates during a decade of improved air quality in Erfurt, Germany. <i>Environmental Health Perspectives</i> , 2009 , 117, 448-54	8.4	59
122	Diverging long-term trends in ambient urban particle mass and number concentrations associated with emission changes caused by the German unification. <i>Atmospheric Environment</i> , 2003 , 37, 3841-3848	5.3	59
121	Inhalation of salt aerosol particles – Estimation of the temperature and relative humidity of the air in the human upper airways. <i>Journal of Aerosol Science</i> , 1988 , 19, 343-363	4.3	59
120	Toxic effects and biodistribution of ultrasmall gold nanoparticles. <i>Archives of Toxicology</i> , 2017 , 91, 3011-3037	3.037	58
119	Quantitative biokinetics of titanium dioxide nanoparticles after intravenous injection in rats: Part 1. <i>Nanotoxicology</i> , 2017 , 11, 434-442	5.3	57
118	Colloidal Stability and Surface Chemistry Are Key Factors for the Composition of the Protein Corona of Inorganic Gold Nanoparticles. <i>Advanced Functional Materials</i> , 2017 , 27, 1701956	15.6	53
117	Quantitative biokinetics of titanium dioxide nanoparticles after intratracheal instillation in rats: Part 3. <i>Nanotoxicology</i> , 2017 , 11, 454-464	5.3	52
116	Cellular uptake and localization of inhaled gold nanoparticles in lungs of mice with chronic obstructive pulmonary disease. <i>Particle and Fibre Toxicology</i> , 2013 , 10, 19	8.4	52
115	Nanoparticle delivery in infant lungs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5092-7	11.5	51
114	Ultrafine particles cause cytoskeletal dysfunctions in macrophages: role of intracellular calcium. <i>Particle and Fibre Toxicology</i> , 2005 , 2, 7	8.4	50
113	Fate and toxic effects of inhaled ultrafine cadmium oxide particles in the rat lung. <i>Inhalation Toxicology</i> , 2004 , 16 Suppl 1, 83-92	2.7	48
112	The influence of hydrogen peroxide and histamine on lung permeability and translocation of iridium nanoparticles in the isolated perfused rat lung. <i>Particle and Fibre Toxicology</i> , 2005 , 2, 3	8.4	47
111	In vitro and in vivo interactions of selected nanoparticles with rodent serum proteins and their consequences in biokinetics. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1699-711	3	46
110	Cytotoxic and proinflammatory effects of PVP-coated silver nanoparticles after intratracheal instillation in rats. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 933-40	3	45
109	The influence of pulmonary surfactant on nanoparticulate drug delivery systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 77, 350-2	5.7	45
108	Relationship between different size classes of particulate matter and meteorology in three European cities. <i>Journal of Environmental Monitoring</i> , 2005 , 7, 302-10		44
107	Change of the ambient particle size distribution in East Germany between 1993 and 1999. <i>Atmospheric Environment</i> , 2001 , 35, 4357-4366	5.3	43
106	Long-term measurements of size-segregated ambient aerosol in two German cities located 100 km apart. <i>Atmospheric Environment</i> , 2003 , 37, 4687-4700	5.3	42

105	Inter-laboratory comparison of nanoparticle size measurements using dynamic light scattering and differential centrifugal sedimentation. <i>NanoImpact</i> , 2018 , 10, 97-107	5.6	41
104	Metrics, dose, and dose concept: the need for a proper dose concept in the risk assessment of nanoparticles. <i>International Journal of Environmental Research and Public Health</i> , 2014 , 11, 4026-48	4.6	41
103	Daily variation in fine and ultrafine particulate air pollution and urinary concentrations of lung Clara cell protein CC16. <i>Occupational and Environmental Medicine</i> , 2004 , 61, 908-14	2.1	41
102	Topical drug delivery in chronic rhinosinusitis patients before and after sinus surgery using pulsating aerosols. <i>PLoS ONE</i> , 2013 , 8, e74991	3.7	39
101	Interspecies comparison of lung clearance after inhalation of monodisperse, solid cobalt oxide aerosol particles. <i>Journal of Aerosol Science</i> , 1991 , 22, 509-535	4.3	39
100	PM25 measurements in ambient aerosol: comparison between Harvard impactor (HI) and the tapered element oscillating microbalance (TEOM) system. <i>Science of the Total Environment</i> , 2001 , 278, 191-7	10.2	37
99	Age-Dependent Rat Lung Deposition Patterns of Inhaled 20 Nanometer Gold Nanoparticles and their Quantitative Biokinetics in Adult Rats. <i>ACS Nano</i> , 2018 , 12, 7771-7790	16.7	34
98	Pulmonary surfactant is indispensable in order to simulate the in vivo situation. <i>Particle and Fibre Toxicology</i> , 2013 , 10, 6	8.4	34
97	Radiolabelling of TiO2 nanoparticles for radiotracer studies. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2435-2443	2.3	34
96	Biodistribution of inhaled gold nanoparticles in mice and the influence of surfactant protein D. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2013 , 26, 24-30	3.8	32
95	Binding of polystyrene and carbon black nanoparticles to blood serum proteins. <i>Inhalation Toxicology</i> , 2011 , 23, 468-75	2.7	32
94	Interspecies Comparison of Phagolysosomal pH in Alveolar Macrophages. <i>Inhalation Toxicology</i> , 1991 , 3, 91-100	2.7	30
93	Surface modification and size dependence in particle translocation during early embryonic development. <i>Inhalation Toxicology</i> , 2009 , 21 Suppl 1, 92-6	2.7	29
92	Cardiovascular and inflammatory effects of intratracheally instilled ambient dust from Augsburg, Germany, in spontaneously hypertensive rats (SHRs). <i>Particle and Fibre Toxicology</i> , 2010 , 7, 27	8.4	29
91	Total and regional deposition of ultrafine particles in a mouse model of allergic inflammation of the lung. <i>Inhalation Toxicology</i> , 2008 , 20, 585-93	2.7	29
90	Postnatal lung function in the developing rat. <i>Journal of Applied Physiology</i> , 2008 , 104, 1167-76	3.7	29
89	Discovery of unique and ENM- specific pathophysiologic pathways: Comparison of the translocation of inhaled iridium nanoparticles from nasal epithelium versus alveolar epithelium towards the brain of rats. <i>Toxicology and Applied Pharmacology</i> , 2016 , 299, 41-6	4.6	29
88	Early pulmonary response is critical for extra-pulmonary carbon nanoparticle mediated effects: comparison of inhalation versus intra-arterial infusion exposures in mice. <i>Particle and Fibre Toxicology</i> , 2017 , 14, 19	8.4	28

87	Efficient internalization and intracellular translocation of inhaled gold nanoparticles in rat alveolar macrophages. <i>Nanomedicine</i> , 2012 , 7, 855-65	5.6	27
86	Occupational and consumer risk estimates for nanoparticles emitted by laser printers. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 91-99	2.3	27
85	Comparability of three spectrometers for monitoring urban aerosol. <i>Atmospheric Environment</i> , 2001 , 35, 2045-2051	5.3	27
84	Comparison of experimental and calculated data for the total and regional deposition in the human lung. <i>Journal of Aerosol Science</i> , 1985 , 16, 133-143	4.3	27
83	Biokinetics of nanoparticles and susceptibility to particulate exposure in a murine model of cystic fibrosis. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 19	8.4	26
82	Left-to-right asymmetry of aerosol deposition after shallow bolus inhalation depends on lung ventilation. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2009 , 22, 333-9	3.8	25
81	Generation and characterization of stable, highly concentrated titanium dioxide nanoparticle aerosols for rodent inhalation studies. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 511-524	2.3	23
80	Soluble iron modulates iron oxide particle-induced inflammatory responses via prostaglandin E(2) synthesis: In vitro and in vivo studies. <i>Particle and Fibre Toxicology</i> , 2009 , 6, 34	8.4	23
79	A generator for the production of radiolabelled ultrafine carbonaceous particles for deposition and clearance studies in the respiratory tract. <i>Journal of Aerosol Science</i> , 2006 , 37, 631-644	4.3	22
78	TOF-SIMS characterisation of spark-generated nanoparticles made from pairs of Ir ⁺ and Ir ⁰ electrodes. <i>International Journal of Mass Spectrometry</i> , 2006 , 254, 70-84	1.9	22
77	Particle Transport from the Lower Respiratory Tract. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 1988 , 1, 351-370		22
76	Aerosol particle parameters maintaining lung clearance by intracellular dissolution and translocation. <i>Journal of Aerosol Science</i> , 1990 , 21, 371-374	4.3	19
75	Biokinetic studies of non-complexed siRNA versus nano-sized PEI F25-LMW/siRNA polyplexes following intratracheal instillation into mice. <i>International Journal of Pharmaceutics</i> , 2016 , 500, 227-35	6.5	18
74	Macrophage functions measured by magnetic microparticles in vivo and in vitro. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 225, 218-225	2.8	18
73	Conditions for measuring supersaturation in the human lung using aerosols. <i>Journal of Aerosol Science</i> , 1984 , 15, 211-215	4.3	18
72	Numerical and experimental study on the deposition of nanoparticles in an extrathoracic oral airway model. <i>Journal of Aerosol Science</i> , 2013 , 57, 131-143	4.3	17
71	Corrections in dose assessment of 99mTc radiolabeled aerosol particles targeted to central human airways using planar gamma camera imaging. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2009 , 22, 45-54	3.8	17
70	Early Response of the Canine Respiratory Tract Following Long-Term Exposure to a Sulfur(IV) Aerosol at Low Concentration. V. Morphology and Morphometry. <i>Inhalation Toxicology</i> , 1992 , 4, 247-272 ^{2.7}		17

69	A novel assay for the quantification of internalized nanoparticles in macrophages. <i>Nanotoxicology</i> , 2008 , 2, 232-242	5.3	16
68	Lung clearance in Long-Evans rats after inhalation of porous, monodisperse cobalt oxide particles. <i>Experimental Lung Research</i> , 1993 , 19, 445-67	2.3	16
67	Proinflammatory and cytotoxic response to nanoparticles in precision-cut lung slices. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2440-9	3	15
66	Phagolysosomal morphology and dissolution of cobalt oxide particles by human and rabbit alveolar macrophages. <i>Experimental Lung Research</i> , 1995 , 21, 51-66	2.3	15
65	Design, operation and performance of whole body chambers for long-term aerosol exposure of large experimental animals. <i>Journal of Aerosol Science</i> , 1992 , 23, 279-290	4.3	15
64	Early Response of the Canine Respiratory Tract Following Long-Term Exposure to a Sulfur(IV) Aerosol at low Concentration. III. Macrophage-Mediated Long-Term Particle Clearance. <i>Inhalation Toxicology</i> , 1992 , 4, 197-233	2.7	14
63	To the editors: express concern about the recent paper by Song et al. <i>European Respiratory Journal</i> , 2010 , 35, 226-7	13.6	13
62	Aerosol delivery during mechanical ventilation to the rat. <i>Experimental Lung Research</i> , 2004 , 30, 635-51	2.3	13
61	An interspecies comparison of the lung clearance of inhaled monodisperse cobalt oxide particles Part IV: Lung clearance of inhaled cobalt oxide particles in Beagle dogs. <i>Journal of Aerosol Science</i> , 1989 , 20, 219-232	4.3	13
60	Pulmonary DWCNT exposure causes sustained local and low-level systemic inflammatory changes in mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 84, 412-20	5.7	12
59	The procoagulant effects of fine particulate matter in vivo. <i>Particle and Fibre Toxicology</i> , 2011 , 8, 12; author reply 12	8.4	12
58	Application of an informatics-based decision-making framework and process to the assessment of radiation safety in nanotechnology. <i>Health Physics</i> , 2015 , 108, 179-94	2.3	11
57	Quantitative biokinetics over a 28 day period of freshly generated, pristine, 20 nm titanium dioxide nanoparticle aerosols in healthy adult rats after a single two-hour inhalation exposure. <i>Particle and Fibre Toxicology</i> , 2019 , 16, 29	8.4	11
56	Intercomparison of Aerosol Spectrometers for Ambient Air Monitoring. <i>Aerosol Science and Technology</i> , 2002 , 36, 866-876	3.4	11
55	Aerosol particle growth in the human airways using a calculated humidity profile. <i>Journal of Aerosol Science</i> , 1983 , 14, 196-199	4.3	11
54	The influence of improved air quality on mortality risks in Erfurt, Germany. <i>Research Report (health Effects Institute)</i> , 2009 , 5-77; discussion 79-90	0.9	11
53	Quantitative biokinetics over a 28 day period of freshly generated, pristine, 20 nm silver nanoparticle aerosols in healthy adult rats after a single 1 h -hour inhalation exposure. <i>Particle and Fibre Toxicology</i> , 2020 , 17, 21	8.4	10
52	Gold nanoparticle aerosols for rodent inhalation and translocation studies. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	10

51	Interspecies Comparison of the Clearance of Ionic Cobalt from the Lungs. <i>Inhalation Toxicology</i> , 1994 , 6, 225-240	2.7	10
50	Production of ¹¹¹ In-labelled monodisperse aerosol particles. <i>Journal of Aerosol Science</i> , 1989 , 20, 1289-1292	4.3	8
49	Analysis of intraphagolysosomal dissolution of test particles in canine alveolar macrophages. <i>Journal of Aerosol Science</i> , 1988 , 19, 1071-1074	4.3	8
48	Macrophage Cellular Adaptation, Localization and Imaging of Different Size Polystyrene Particles. <i>Nano Biomedicine and Engineering</i> , 2009 , 1,	2.9	8
47	Intracellular particle dissolution in macrophages isolated from the lung of the Fischer (F-344) rat. <i>Experimental Lung Research</i> , 1994 , 20, 143-56	2.3	7
46	Long-term exposure of dogs to a sulphite aerosol: I. Rationale and design parameters. <i>Journal of Aerosol Science</i> , 1990 , 21, S471-S474	4.3	7
45	Advances in lung imaging techniques for the treatment of respiratory disease. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2008 , 5, 87-92		6
44	Improved ventricular function during inhalation of PGI(2) aerosol partly relies on enhanced myocardial contractility. <i>European Surgical Research</i> , 2005 , 37, 9-17	1.1	6
43	Long-term exposure of dogs to a sulphite aerosol: III. Effect of lung clearance. <i>Journal of Aerosol Science</i> , 1990 , 21, S479-S482	4.3	6
42	Estimation of the deposition of polydisperse hygroscopic aerosol particles in the respiratory tract. <i>Journal of Aerosol Science</i> , 1991 , 22, S863-S866	4.3	6
41	Facilities for chronic exposure of dogs to sulfite aerosols. <i>Journal of Aerosol Science</i> , 1988 , 19, 971-973	4.3	6
40	A scintillation counter for measuring removal of radioactive particles from dog lungs. <i>Journal of Aerosol Science</i> , 1989 , 20, 1297-1300	4.3	5
39	Continuous dispersion of aqueous solutions by a modified vibrating orifice aerosol generator. <i>Journal of Aerosol Science</i> , 1985 , 16, 261-263	4.3	5
38	Unpredictable Nanoparticle Retention in Commonly Used Plastic Syringes Introduces Dosage Uncertainties That May Compromise the Accuracy of Nanomedicine and Nanotoxicology Studies. <i>Frontiers in Pharmacology</i> , 2019 , 10, 1293	5.6	5
37	Long-term responses of canine lungs to acidic particles. <i>Inhalation Toxicology</i> , 2009 , 21, 920-32	2.7	4
36	Multimodal imaging for the detection of sub-micron particles in the gas-exchange region of the mammalian lung. <i>Journal of Physics: Conference Series</i> , 2009 , 186, 012040	0.3	4
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