# Wolfgang Kreyling

List of Publications by Year
in descending order



| 202 | 24,244 | 10956 71 | 7136 153 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 208 | 208 | 208 | 21986 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Translocation of Inhaled Ultrafine Particles to the Brain. Inhalation Toxicology, 2004, 16, 437-445. | 0.8 | 2,116 |
| 2 | Principles for characterizing the potential human health effects from exposure to nanomaterials: elements of a screening strategy. Particle and Fibre Toxicology, 2005, 2, 8. | 2.8 | 1,678 |
| 3 | Ultrafine Particles Cross Cellular Membranes by Nonphagocytic Mechanisms in Lungs and in Cultured Cells. Environmental Health Perspectives, 2005, 113, 1555-1560. | 2.8 | 1,155 |
| 4 | The potential risks of nanomaterials: a review carried out for ECETOC. Particle and Fibre Toxicology, 2006, 3, 11. | 2.8 | 1,067 |
| 5 | EXTRAPULMONARY TRANSLOCATION OF ULTRAFINE CARBON PARTICLES FOLLOWING WHOLE-BODY INHALATION EXPOSURE OF RATS. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2002, 65, 1531-1543. | 1.1 | 892 |
| 6 | TRANSLOCATION OF ULTRAFINE INSOLUBLE IRIDIUM PARTICLES FROM LUNG EPITHELIUM TO EXTRAPULMONARY ORGANS IS SIZE DEPENDENT BUT VERY LOW. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2002, 65, 1513-1530. | 1.1 | 805 |
| 7 | Nanotoxicology. Occupational and Environmental Medicine, 2004, 61, 727-728. | 1.3 | 664 |
| 8 | Deposition and biokinetics of inhaled nanoparticles. Particle and Fibre Toxicology, 2010, 7, 2. | 2.8 | 534 |
| 9 | Particle size-dependent and surface charge-dependent biodistribution of gold nanoparticles after intravenous administration. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 407-416. | 2.0 | 493 |
| 10 | Biodistribution of PEG-modified gold nanoparticles following intratracheal instillation and intravenous injection. Biomaterials, 2010, 31, 6574-6581. | 5.7 | 461 |
| 11 | Biodistribution of 1.4â€•and 18â€•nm Gold Particles in Rats. Small, 2008, 4, 2108-2111. | 5.2 | 459 |
| 12 | Health effects of particles in ambient air. International Journal of Hygiene and Environmental Health, 2004, 207, 399-407. | 2.1 | 394 |
| 13 | Multifunctional Nanocarriers for diagnostics, drug delivery and targeted treatment across blood-brain barrier: perspectives on tracking and neuroimaging. Particle and Fibre Toxicology, 2010, 7, 3. | 2.8 | 386 |
| 14 | Particulate Air Pollution and Risk of ST-Segment Depression During Repeated Submaximal Exercise Tests Among Subjects With Coronary Heart Disease. Circulation, 2002, 106, 933-938. | 1.6 | 361 |
| 15 | Long-Term Clearance Kinetics of Inhaled Ultrafine Insoluble Iridium Particles from the Rat Lung, Including Transient Translocation into Secondary Organs. Inhalation Toxicology, 2004, 16, 453-459. | 0.8 | 358 |
| 16 | Size dependence of the translocation of inhaled iridium and carbon nanoparticle aggregates from the lung of rats to the blood and secondary target organs. Inhalation Toxicology, 2009, 21, 55-60. | 0.8 | 340 |
| 17 | Toxicological Hazards of Inhaled Nanoparticlesâ€"Potential Implications for Drug Delivery. Journal of Nanoscience and Nanotechnology, 2004, 4, 521-531. | 0.9 | 333 |
| 18 | In vivo integrity of polymer-coated gold nanoparticles. Nature Nanotechnology, 2015, 10, 619-623. | 15.6 | 314 |

| # | Article | IF | Citations |
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| 19 | Size and surface charge of gold nanoparticles determine absorption across intestinal barriers and accumulation in secondary target organs after oral administration. Nanotoxicology, 2012, 6, 36-46. | 1.6 | 313 |
| 20 | Epidemiological Evidence on Health Effects of Ultrafine Particles. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2002, 15, 189-201. | 1.2 | 307 |
| 21 | Ultrafine Particleâ€"Lung Interactions: Does Size Matter?. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2006, 19, 74-83. | 1.2 | 306 |
| 22 | Deposition, Retention, and Translocation of Ultrafine Particles from the Central Airways and Lung Periphery. American Journal of Respiratory and Critical Care Medicine, 2008, 177, 426-432. | 2.5 | 303 |
| 23 | Nanomaterials Versus Ambient Ultrafine Particles: An Opportunity to Exchange Toxicology Knowledge. Environmental Health Perspectives, 2017, 125, 106002. | 2.8 | 274 |
| 24 | In-vitro cell exposure studies for the assessment of nanoparticle toxicity in the lungâ€"A dialog between aerosol science and biology. Journal of Aerosol Science, 2011, 42, 668-692. | 1.8 | 264 |
| 25 | Health implications of nanoparticles. Journal of Nanoparticle Research, 2006, 8, 543-562. | 0.8 | 251 |
| 26 | A complementary definition of nanomaterial. Nano Today, 2010, 5, 165-168. | 6.2 | 251 |
| 27 | Efficient Elimination of Inhaled Nanoparticles from the Alveolar Region: Evidence for Interstitial Uptake and Subsequent Reentrainment onto Airways Epithelium. Environmental Health Perspectives, 2007, 115, 728-733. | 2.8 | 245 |
| 28 | Increased asthma medication use in association with ambient fine and ultrafine particles. European Respiratory Journal, 2002, 20, 691-702. | 3.1 | 239 |
| 29 | Airâ€"Blood Barrier Translocation of Tracheally Instilled Gold Nanoparticles Inversely Depends on Particle Size. ACS Nano, 2014, 8, 222-233. | 7.3 | 211 |
| 30 | The Role of Macrophages in the Clearance of Inhaled Ultrafine Titanium Dioxide Particles. American Journal of Respiratory Cell and Molecular Biology, 2008, 38, 371-376. | 1.4 | 205 |
| 31 | Daily mortality and particulate matter in different size classes in Erfurt, Germany. Journal of Exposure Science and Environmental Epidemiology, 2007, 17, 458-467. | 1.8 | 204 |
| 32 | Evaluating the uptake and intracellular fate of polystyrene nanoparticles by primary and hepatocyte cell lines in vitro. Toxicology and Applied Pharmacology, 2010, 242, 66-78. | 1.3 | 177 |
| 33 | Dosimetry and Toxicology of Ultrafine Particles. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2004, 17, 140-152. | 1.2 | 174 |
| 34 | Concentrations of ultrafine, fine and PM2.5 particles in three European cities. Atmospheric Environment, 2001, 35, 3729-3738. | 1.9 | 173 |
| 35 | Distribution Pattern of Inhaled Ultrafine Gold Particles in the Rat Lung. Inhalation Toxicology, 2006, 18, 733-740. | 0.8 | 173 |
| 36 | Effects of ultrafine and fine particulate and gaseous air pollution on cardiac autonomic control in subjects with coronary artery disease: The ULTRA study. Journal of Exposure Science and Environmental Epidemiology, 2006, 16, 332-341. | 1.8 | 170 |

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| 37 | Polyethylenimines for RNAi-mediated gene targeting in vivo and siRNA delivery to the lung. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 438-449. | 2.0 | 166 |
| 38 | Differences in the Biokinetics of Inhaled Nano- versus Micrometer-Sized Particles. Accounts of Chemical Research, 2013, 46, 714-722. | 7.6 | 165 |
| 39 | Effects of particulate air pollution on blood pressure and heart rate in subjects with cardiovascular disease: a multicenter approach.. Environmental Health Perspectives, 2004, 112, 369-377. | 2.8 | 164 |
| 40 | Dosimetry and toxicology of inhaled ultrafine particles. Biomarkers, 2009, 14, 67-73. | 0.9 | 154 |
| 41 | Expert elicitation on ultrafine particles: likelihood of health effects and causal pathways. Particle and Fibre Toxicology, 2009, 6, 19. | 2.8 | 153 |
| 42 | Sources and elemental composition of ambient PM2.5 in three European cities. Science of the Total Environment, 2005, 337, 147-162. | 3.9 | 144 |
| 43 | Minimal analytical characterization of engineered nanomaterials needed for hazard assessment in biological matrices. Nanotoxicology, 2011, 5, 1-11. | 1.6 | 141 |
| 44 | Effects of Silver Nanoparticles on the Liver and Hepatocytes In Vitro. Toxicological Sciences, 2013, 131, 537-547. | 1.4 | 140 |
| 45 | Biodistribution of gold nanoparticles in mouse lung following intratracheal instillation. Chemistry Central Journal, 2009, 3, 16. | 2.6 | 133 |
| 46 | Particle toxicology and health - where are we?. Particle and Fibre Toxicology, 2019, 16, 19. | 2.8 | 133 |
| 47 | Engineered nanomaterial risk. Lessons learnt from completed nanotoxicology studies: potential solutions to current and future challenges. Critical Reviews in Toxicology, 2013, 43, 1-20. | 1.9 | 130 |
| 48 | Elemental composition and sources of fine and ultrafine ambient particles in Erfurt, Germany. Science of the Total Environment, 2003, 305, 143-156. | 3.9 | 129 |
| 49 | Concentration Response Functions for Ultrafine Particles and All-Cause Mortality and Hospital Admissions: Results of a European Expert Panel Elicitation. Environmental Science & Technology, 2010, 44, 476-482. | 4.6 | 129 |
| 50 | Dose-controlled exposure of A549 epithelial cells at the airâ€“liquid interface to airborne ultrafine carbonaceous particles. Chemosphere, 2006, 65, 1784-1790. | 4.2 | 125 |
| 51 | The effect of primary particle size on biodistribution of inhaled gold nano-agglomerates. Biomaterials, 2013, 34, 5439-5452. | 5.7 | 120 |
| 52 | Ultrafine Particles Exert Prothrombotic but Not Inflammatory Effects on the Hepatic Microcirculation in Healthy Mice In Vivo. Circulation, 2004, 109, 1320-1325. | 1.6 | 119 |
| 53 | PVP-coated, negatively charged silver nanoparticles: A multi-center study of their physicochemical characteristics, cell culture and in vivo experiments. Beilstein Journal of Nanotechnology, 2014, 5, 1944-1965. | 1.5 | 119 |
| 54 | Negligible clearance of ultrafine particles retained in healthy and affected human lungs. European Respiratory Journal, 2006, 28, 286-290. | 3.1 | 117 |

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| 55 | Effects of Fine and Ultrafine Particles on Cardiorespiratory Symptoms in Elderly Subjects with Coronary Heart Disease: The ULTRA Study. American Journal of Epidemiology, 2003, 157, 613-623. | 1.6 | 116 |
| 56 | Quantitative biokinetics of titanium dioxide nanoparticles after oral application in rats: Part 2. Nanotoxicology, 2017, 11, 443-453. | 1.6 | 115 |
| 57 | No Significant Translocation of Inhaled 35-nm Carbon Particles to the Circulation in Humans. Inhalation Toxicology, 2006, 18, 741-747. | 0.8 | 113 |
| 58 | The allergen Bet v 1 in fractions of ambient air deviates from birch pollen counts. Allergy: European Journal of Allergy and Clinical Immunology, 2010, 65, 850-858. | 2.7 | 113 |
| 59 | A Multilaboratory Toxicological Assessment of a Panel of 10 Engineered Nanomaterials to Human Healthâ€"ENPRA Projectâ€"The Highlights, Limitations, and Current and Future Challenges. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2016, 19, 1-28. | 2.9 | 112 |
| 60 | Blood protein coating of gold nanoparticles as potential tool for organ targeting. Biomaterials, 2014, 35, 3455-3466. | 5.7 | 111 |
| 61 | Measurement Techniques for Respiratory Tract Deposition of Airborne Nanoparticles: A Critical Review. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2014, 27, 229-254. | 0.7 | 111 |
| 62 | Multifunctional Nanoparticles for Dual Imaging. Analytical Chemistry, 2011, 83, 2877-2882. | 3.2 | 109 |
| 63 | Size dependent translocation and fetal accumulation of gold nanoparticles from maternal blood in the rat. Particle and Fibre Toxicology, 2014, 11, 33. | 2.8 | 108 |
| 64 | Silver nanoparticles inhaled during pregnancy reach and affect the placenta and the foetus. Nanotoxicology, 2017, 11, 687-698. | 1.6 | 102 |
| 65 | Protein corona: implications for nanoparticle interactions with pulmonary cells. Particle and Fibre Toxicology, 2017, 14, 42. | 2.8 | 99 |
| 66 | Nanoparticles in the lung. Nature Biotechnology, 2010, 28, 1275-1276. | 9.4 | 95 |
| 67 | Serum protein identification and quantification of the corona of 5, 15 and 80 nm gold nanoparticles. Nanotechnology, 2013, 24, 265103. | 1.3 | 94 |
| 68 | An interspecies comparison of the lung clearance of inhaled monodisperse cobalt oxide particlesâ€"Part I: Objectives and summary of results. Journal of Aerosol Science, 1989, 20, 169-188. | 1.8 | 92 |
| 69 | Toxic effects and biodistribution of ultrasmall gold nanoparticles. Archives of Toxicology, 2017, 91, 3011-3037. | 1.9 | 87 |
| 70 | Interlaboratory comparison of size and surface charge measurements on nanoparticles prior to biological impact assessment. Journal of Nanoparticle Research, 2011, 13, 2675-2687. | 0.8 | 83 |
| 71 | Colloidal Stability and Surface Chemistry Are Key Factors for the Composition of the Protein Corona of Inorganic Gold Nanoparticles. Advanced Functional Materials, 2017, 27, 1701956. | 7.8 | 76 |
| 72 | Cellular uptake and localization of inhaled gold nanoparticles in lungs of mice with chronic obstructive pulmonary disease. Particle and Fibre Toxicology, 2013, 10, 19. | 2.8 | 74 |

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| 73 | Source apportionment of ambient fine particle size distribution using positive matrix factorization in Erfurt, Germany. Science of the Total Environment, 2008, 398, 133-144. | 3.9 | 73 |
| 74 | Radiolabelling of engineered nanoparticles for in vitro and in vivo tracing applications using cyclotron accelerators. Archives of Toxicology, 2011, 85, 751-773. | 1.9 | 72 |
| 75 | Inhalation of salt aerosol particlesâ€"i. Estimation of the temperature and relative humidity of the air in the human upper airways. Journal of Aerosol Science, 1988, 19, 343-363. | 1.8 | 71 |
| 76 | Comparison of two particle-size spectrometers for ambient aerosol measurements. Atmospheric Environment, 2000, 34, 139-149. | 1.9 | 71 |
| 77 | Quantitative biokinetics of titanium dioxide nanoparticles after intratracheal instillation in rats: Part 3. Nanotoxicology, 2017, 11, 454-464. | 1.6 | 71 |
| 78 | Short-Term Mortality Rates during a Decade of Improved Air Quality in Erfurt, Germany. Environmental Health Perspectives, 2009, 117, 448-454. | 2.8 | 69 |
| 79 | Electron energy loss spectroscopy for analysis of inhaled ultrafine particles in rat lungs. Microscopy Research and Technique, 2004, 63, 298-305. | 1.2 | 68 |
| 80 | Quantitative biokinetics of titanium dioxide nanoparticles after intravenous injection in rats: Part 1. Nanotoxicology, 2017, 11, 434-442. | 1.6 | 68 |
| 81 | Age-Dependent Rat Lung Deposition Patterns of Inhaled 20 Nanometer Gold Nanoparticles and their Quantitative Biokinetics in Adult Rats. ACS Nano, 2018, 12, 7771-7790. | 7.3 | 66 |
| 82 | Diverging long-term trends in ambient urban particle mass and number concentrations associated with emission changes caused by the German unification. Atmospheric Environment, 2003, 37, 3841-3848. | 1.9 | 65 |
| 83 | Fate and Toxic Effects of Inhaled Ultrafine Cadmium Oxide Particles in the Rat Lung. Inhalation Toxicology, 2004, 16, 83-92. | 0.8 | 60 |
| 84 | Ultrafine particles cause cytoskeletal dysfunctions in macrophages: role of intracellular calcium. Particle and Fibre Toxicology, 2005, 2, 7. | 2.8 | 60 |
| 85 | Inter-laboratory comparison of nanoparticle size measurements using dynamic light scattering and differential centrifugal sedimentation. NanoImpact, 2018, 10, 97-107. | 2.4 | 59 |
| 86 | Nanoparticle delivery in infant lungs. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5092-5097. | 3.3 | 58 |
| 87 | The influence of hydrogen peroxide and histamine on lung permeability and translocation of iridium nanoparticles in the isolated perfused rat lung. Particle and Fibre Toxicology, 2005, 2, 3. | 2.8 | 57 |
| 88 | PM2.5 measurements in ambient aerosol: comparison between Harvard impactor (HI) and the tapered element oscillating microbalance (TEOM) system. Science of the Total Environment, 2001, 278, 191-197. | 3.9 | 52 |
| 89 | Relationship between different size classes of particulate matter and meteorology in three European cities. Journal of Environmental Monitoring, 2005, 7, 302. | 2.1 | 52 |
| 90 | Cytotoxic and proinflammatory effects of PVP-coated silver nanoparticles after intratracheal instillation in rats. Beilstein Journal of Nanotechnology, 2013, 4, 933-940. | 1.5 | 52 |

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| 91 | The influence of pulmonary surfactant on nanoparticulate drug delivery systems. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 350-352. | 2.0 | 51 |
| 92 | Topical Drug Delivery in Chronic Rhinosinusitis Patients before and after Sinus Surgery Using Pulsating Aerosols. PLoS ONE, 2013, 8, e74991. | 1.1 | 51 |
| 93 | Daily variation in fine and ultrafine particulate air pollution and urinary concentrations of lung Clara cell protein CC16. Occupational and Environmental Medicine, 2004, 61, 908-914. | 1.3 | 50 |
| 94 | In vitro and in vivo interactions of selected nanoparticles with rodent serum proteins and their consequences in biokinetics. Beilstein Journal of Nanotechnology, 2014, 5, 1699-1711. | 1.5 | 50 |
| 95 | Long-term measurements of size-segregated ambient aerosol in two German cities located 100km apart. Atmospheric Environment, 2003, 37, 4687-4700. | 1.9 | 48 |
| 96 | Metrics, Dose, and Dose Concept: The Need for a Proper Dose Concept in the Risk Assessment of Nanoparticles. International Journal of Environmental Research and Public Health, 2014, 11, 4026-4048. | 1.2 | 48 |
| 97 | Change of the ambient particle size distribution in East Germany between 1993 and 1999. Atmospheric Environment, 2001, 35, 4357-4366. | 1.9 | 47 |
| 98 | Interspecies comparison of lung clearance after inhalation of monodisperse, solid cobalt oxide aerosol particles. Journal of Aerosol Science, 1991, 22, 509-535. | 1.8 | 44 |
| 99 | Discovery of unique and ENMâ€" specific pathophysiologic pathways: Comparison of the translocation of inhaled iridium nanoparticles from nasal epithelium versus alveolar epithelium towards the brain of rats. Toxicology and Applied Pharmacology, 2016, 299, 41-46. | 1.3 | 41 |
| 100 | Early pulmonary response is critical for extra-pulmonary carbon nanoparticle mediated effects: comparison of inhalation versus intra-arterial infusion exposures in mice. Particle and Fibre Toxicology, 2017, 14, 19. | 2.8 | 38 |
| 101 | Biodistribution of Inhaled Gold Nanoparticles in Mice and the Influence of Surfactant Protein D. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2013, 26, 24-30. | 0.7 | 37 |
| 102 | Radiolabelling of TiO2 nanoparticles for radiotracer studies. Journal of Nanoparticle Research, 2010, 12, 2435-2443. | 0.8 | 36 |
| 103 | Surface modification and size dependence in particle translocation during early embryonic development. Inhalation Toxicology, 2009, 21, 92-96. | 0.8 | 35 |
| 104 | Binding of polystyrene and carbon black nanoparticles to blood serum proteins. Inhalation Toxicology, 2011, 23, 468-475. | 0.8 | 35 |
| 105 | Efficient internalization and intracellular translocation of inhaled gold nanoparticles in rat alveolar macrophages. Nanomedicine, 2012, 7, 855-865. | 1.7 | 35 |
| 106 | Pulmonary surfactant is indispensable in order to simulate the in vivo situation. Particle and Fibre Toxicology, 2013, 10, 6. | 2.8 | 35 |
| 107 | Cardiovascular and inflammatory effects of intratracheally instilled ambient dust from Augsburg, Germany, in spontaneously hypertensive rats (SHRs). Particle and Fibre Toxicology, 2010, 7, 27. | 2.8 | 34 |
| 108 | Interspecies Comparison of Phagolysosomal pH in Alveolar Macrophages. Inhalation Toxicology, 1991, 3, 91-100. | 0.8 | 33 |

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| 109 | Postnatal lung function in the developing rat. Journal of Applied Physiology, 2008, 104, 1167-1176. | 1.2 | 33 |
| 110 | Biokinetics of nanoparticles and susceptibility to particulate exposure in a murine model of cystic fibrosis. Particle and Fibre Toxicology, 2014, 11, 19. | 2.8 | 33 |
| 111 | Comparison of experimental and calculated data for the total and regional deposition in the human lung. Journal of Aerosol Science, 1985, 16, 133-143. | 1.8 | 32 |
| 112 | Left-to-Right Asymmetry of Aerosol Deposition after Shallow Bolus Inhalation Depends on Lung Ventilation. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2009, 22, 333-339. | 0.7 | 30 |
| 113 | Total and Regional Deposition of Ultrafine Particles in a Mouse Model of Allergic Inflammation of the Lung. Inhalation Toxicology, 2008, 20, 585-593. | 0.8 | 29 |
| 114 | Comparability of three spectrometers for monitoring urban aerosol. Atmospheric Environment, 2001, 35, 2045-2051. | 1.9 | 28 |
| 115 | Soluble iron modulates iron oxide particle-induced inflammatory responses via prostaglandin E2 synthesis: In vitro and in vivo studies. Particle and Fibre Toxicology, 2009, 6, 34. | 2.8 | 28 |
| 116 | Occupational and consumer risk estimates for nanoparticles emitted by laser printers. Journal of Nanoparticle Research, 2010, 12, 91-99. | 0.8 | 28 |
| 117 | Particle Transport from the Lower Respiratory Tract. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 1988, 1, 351-370. | 1.2 | 27 |
| 118 | Quantitative biokinetics over a 28â€‰day period of freshly generated, pristine, 20 nm titanium dioxide nanoparticle aerosols in healthy adult rats after a single two-hour inhalation exposure. Particle and Fibre Toxicology, 2019, 16, 29. | 2.8 | 27 |
| 119 | Generation and characterization of stable, highly concentrated titanium dioxide nanoparticle aerosols for rodent inhalation studies. Journal of Nanoparticle Research, 2011, 13, 511-524. | 0.8 | 26 |
| 120 | A generator for the production of radiolabelled ultrafine carbonaceous particles for deposition and clearance studies in the respiratory tract. Journal of Aerosol Science, 2006, 37, 631-644. | 1.8 | 25 |
| 121 | TOF-SIMS characterisation of spark-generated nanoparticles made from pairs of Irâ€“Ir and Irâ€“C electrodes. International Journal of Mass Spectrometry, 2006, 254, 70-84. | 0.7 | 25 |
| 122 | Lung Clearance in Long-Evans Rats after Inhalation of Porous, Monodisperse Cobalt Oxide Particles. Experimental Lung Research, 1993, 19, 445-467. | 0.5 | 23 |
| 123 | Conditions for measuring supersaturation in the human lung using aerosols. Journal of Aerosol Science, 1984, 15, 211-215. | 1.8 | 22 |
| 124 | Aerosol particle parameters maintaining lung clearance by intracellular dissolution and translocation. Journal of Aerosol Science, 1990, 21, 371-374. | 1.8 | 21 |
| 125 | Numerical and experimental study on the deposition of nanoparticles in an extrathoracic oral airway model. Journal of Aerosol Science, 2013, 57, 131-143. | 1.8 | 21 |
| 126 | Biokinetic studies of non-complexed siRNA versus nano-sized PEI F25-LMW/siRNA polyplexes following intratracheal instillation into mice. International Journal of Pharmaceutics, 2016, 500, 227-235. | 2.6 | 21 |

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| 127 | Corrections in Dose Assessment of99mTc Radiolabeled Aerosol Particles Targeted to Central Human Airways Using Planar Gamma Camera Imaging. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2009, 22, 45-54. | 0.7 | 20 |
| 128 | Quantitative biokinetics over a 28â€‰day period of freshly generated, pristine, 20â€‰nm silver nanoparticle aerosols in healthy adult rats after a single 1Â½-hour inhalation exposure. Particle and Fibre Toxicology, 2020, 17, 21. | 2.8 | 20 |
| 129 | Design, operation and performance of whole body chambers for long-term aerosol exposure of large experimental animals. Journal of Aerosol Science, 1992, 23, 279-290. | 1.8 | 19 |
| 130 | Early Response of the Canine Respiratory Tract Following Long-Term Exposure to a Sulfur(IV) Aerosol at Low Concentration. V. Morphology and Morphometry. Inhalation Toxicology, 1992, 4, 247-272. | 0.8 | 18 |
| 131 | Phagolysosomal Morphology and Dissolution of Cobalt Oxide Particles by Human and Rabbit Alveolar Macrophages. Experimental Lung Research, 1995, 21, 51-66. | 0.5 | 18 |
| 132 | Macrophage functions measured by magnetic microparticles in vivo and in vitro. Journal of Magnetism and Magnetic Materials, 2001, 225, 218-225. | 1.0 | 18 |
| 133 | Proinflammatory and cytotoxic response to nanoparticles in precision-cut lung slices. Beilstein Journal of Nanotechnology, 2014, 5, 2440-2449. | 1.5 | 18 |
| 134 | A novel assay for the quantification of internalized nanoparticles in macrophages. Nanotoxicology, 2008, 2, 232-242. | 1.6 | 17 |
| 135 | Aerosol particle growth in the human airways using a calculated humidity profile. Journal of Aerosol Science, 1983, 14, 196-199. | 1.8 | 15 |
| 136 | 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. Inhalation Toxicology, 1992, 4, 197-233. | 0.8 | 15 |
| 137 | Application of an Informatics-Based Decision-Making Framework and Process to the Assessment of Radiation Safety in Nanotechnology. Health Physics, 2015, 108, 179-194. | 0.3 | 15 |
| 138 | Development of a multi-route physiologically based pharmacokinetic (PBPK) model for nanomaterials: a comparison between a traditional versus a new route-specific approach using gold nanoparticles in rats. Particle and Fibre Toxicology, 2022, 19, . | 2.8 | 15 |
| 139 | An interspecies comparison of the lung clearance of inhaled monodisperse cobalt oxide particlesâ€”Part IV: Lung clearance of inhaled cobalt oxide particles in Beagle dogs. Journal of Aerosol Science, 1989, 20, 219-232. | 1.8 | 14 |
| 140 | Intercomparison of Aerosol Spectrometers for Ambient Air Monitoring. Aerosol Science and Technology, 2002, 36, 866-876. | 1.5 | 14 |
| 141 | AEROSOL DELIVERY DURING MECHANICAL VENTILATION TO THE RAT. Experimental Lung Research, 2004, 30, 635-651. | 0.5 | 14 |
| 142 | The procoagulant effects of fine particulate matter in vivo. Particle and Fibre Toxicology, 2011, 8, 12. | 2.8 | 14 |
| 143 | Pulmonary DWCNT exposure causes sustained local and low-level systemic inflammatory changes in mice. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 84, 412-420. | 2.0 | 14 |
| 144 | Gold nanoparticle aerosols for rodent inhalation and translocation studies. Journal of Nanoparticle Research, 2013, 15, 1. | 0.8 | 14 |

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| 145 | To the Editors:. European Respiratory Journal, 2010, 35, 226-227. | 3.1 | 13 |
| 146 | Interspecies comparison of lung clearance after inhalation of monodisperse, solid cobalt oxide aerosol particles. Journal of Aerosol Science, 1989, 20, 1317-1320. | 1.8 | 11 |
| 147 | Interspecies Comparison of the Clearance of Ionic Cobalt from the Lungs. Inhalation Toxicology, 1994, 6, 225-240. | 0.8 | 11 |
| 148 | Macrophage Cellular Adaptation, Localization and Imaging of Different Size Polystyrene Particles. Nano Biomedicine and Engineering, 2009, 1, . | 0.3 | 11 |
| 149 | The influence of improved air quality on mortality risks in Erfurt, Germany. Research Report (health) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.6 | 11 |
| 150 | Improved Ventricular Function during Inhalation of PGI<sub>2</sub> Aerosol Partly Relies on Enhanced Myocardial Contractility. European Surgical Research, 2005, 37, 9-17. | 0.6 | 10 |
| 151 | Unpredictable Nanoparticle Retention in Commonly Used Plastic Syringes Introduces Dosage Uncertainties That May Compromise the Accuracy of Nanomedicine and Nanotoxicology Studies. Frontiers in Pharmacology, 2019, 10, 1293. | 1.6 | 9 |
| 152 | Analysis of intraphagolysosomal dissolution of test particles in canine alveolar macrophages. Journal of Aerosol Science, 1988, 19, 1071-1074. | 1.8 | 8 |
| 153 | Production of 111In-labelled monodisperse aerosol particles. Journal of Aerosol Science, 1989, 20, 1289-1292. | 1.8 | 8 |
| 154 | Intracellular Particle Dissolution in Macrophages Isolated from the Lung of the Fischer (F-344) Rat. Experimental Lung Research, 1994, 20, 143-156. | 0.5 | 8 |
| 155 | Facilities for chronic exposure of dogs to sulfite aerosols. Journal of Aerosol Science, 1988, 19, 971-973. | 1.8 | 7 |
| 156 | Long-term exposure of dogs to a sulphite aerosol: I. Rationale and design parameters. Journal of Aerosol Science, 1990, 21, S471-S474. | 1.8 | 7 |
| 157 | Continuous dispersion of aqueous solutions by a modified vibrating orifice aerosol generator. Journal of Aerosol Science, 1985, 16, 261-263. | 1.8 | 6 |
| 158 | Long-term exposure of dogs to a sulphite aerosol: III. Effect of lung clearance. Journal of Aerosol Science, 1990, 21, S479-S482. | 1.8 | 6 |
| 159 | Estimation of the deposition of polydisperse hygroscopic aerosol particles in the respiratory tract. Journal of Aerosol Science, 1991, 22, S863-S866. | 1.8 | 6 |
| 160 | Advances in lung imaging techniques for the treatment of respiratory disease. Drug Discovery Today: Therapeutic Strategies, 2008, 5, 87-92. | 0.5 | 6 |
| 161 | Multimodal imaging for the detection of sub-micron particles in the gas-exchange region of the mammalian lung. Journal of Physics: Conference Series, 2009, 186, 012040. | 0.3 | 6 |
| 162 | Deep pulmonary lymphatics in immature lungs. Journal of Applied Physiology, 2009, 107, 859-863. | 1.2 | 6 |

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