Antti Joonas Koivisto

List of Publications by Year
in descending order

63 papers	2,461 citations	218592 26 h-index	206029 48 g-index
64 all docs	64 docs citations	64 times ranked	3431 citing authors

#	Article	IF	Citations
1	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. ACS Nano, 2018, 12, 10582-10620.	7.3	438
2	Nanotechnologies, engineered nanomaterials and occupational health and safety â€“ A review. Safety Science, 2010, 48, 957-963.	2.6	147
3	Airway Exposure to Silica-Coated TiO2 Nanoparticles Induces Pulmonary Neutrophilia in Mice. Toxicological Sciences, 2010, 113, 422-433.	1.4	140
4	Assessment of airborne bacteria and noroviruses in air emission from a new highly-advanced hospital wastewater treatment plant. Water Research, 2017, 112, 110-119.	5.3	88
5	Genotoxicity of inhaled nanosized TiO2 in mice. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2012, 745, 58-64.	0.9	85
6	Workplace Measurements of Ultrafine Particlesâ€”A Literature Review. Annals of Work Exposures and Health, 2017, 61, 749-758.	0.6	84
7	Inhalation of rod-like carbon nanotubes causes unconventional allergic airway inflammation. Particle and Fibre Toxicology, 2014, 11, 48.	2.8	83
8	Inhalation and Oropharyngeal Aspiration Exposure to Rod-Like Carbon Nanotubes Induce Similar Airway Inflammation and Biological Responses in Mouse Lungs. ACS Nano, 2017, 11, 291-303.	7.3	72
9	Inhalation exposure to nanosized and fine TiO2 particles inhibits features of allergic asthma in a murine model. Particle and Fibre Toxicology, 2010, 7, 35.	2.8	70
10	Quantitative material releases from products and articles containing manufactured nanomaterials: Towards a release library. NanoImpact, 2017, 5, 119-132.	2.4	69
11	Comparison of nanoparticle measurement instruments for occupational health applications. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	66
12	<i>In vitro</i>and<i>in vivo</i>genotoxic effects of straight versus tangled multi-walled carbon nanotubes. Nanotoxicology, 2016, 10, 794-806.	1.6	65
13	Industrial worker exposure to airborne particles during the packing of pigment and nanoscale titanium dioxide. Inhalation Toxicology, 2012, 24, 839-849.	0.8	63
14	Impact of particle emissions of new laser printers on modeled office room. Atmospheric Environment, 2010, 44, 2140-2146.	1.9	61
15	Modeling regional deposited dose of submicron aerosol particles. Science of the Total Environment, 2013, 458-460, 140-149.	3.9	61
16	Assessing Human Exposure to SVOCs in Materials, Products, and Articles: A Modular Mechanistic Framework. Environmental Science & Technology, 2021, 55, 25-43.	4.6	54
17	Source specific exposure and risk assessment for indoor aerosols. Science of the Total Environment, 2019, 668, 13-24.	3.9	49
18	Toward Rigorous Materials Production: New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices. Small, 2020, 16, e1904749.	5.2	43

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19	Airport emission particles: exposure characterization and toxicity following intratracheal instillation in mice. Particle and Fibre Toxicology, 2019, 16, 23.	2.8	41
20	Size Dependence of the Ratio of Aerosol Coagulation to Deposition Rates for Indoor Aerosols. Aerosol Science and Technology, 2013, 47, 427-434.	1.5	34
21	Worker Exposure and High Time-Resolution Analyses of Process-Related Submicrometre Particle Concentrations at Mixing Stations in Two Paint Factories. Annals of Occupational Hygiene, 2015, 59, 749-763.	1.9	33
22	A New Clean Air Delivery Rate Test Applied to Five Portable Indoor Air Cleaners. Aerosol Science and Technology, 2014, 48, 409-417.	1.5	32
23	Size resolved particle emission rates from an evolving indoor aerosol system. Journal of Aerosol Science, 2012, 47, 58-69.	1.8	31
24	Testing the near field/far field model performance for prediction of particulate matter emissions in a paint factory. Environmental Sciences: Processes and Impacts, 2015, 17, 62-73.	1.7	30
25	Increased surface area of halloysite nanotubes due to surface modification predicts lung inflammation and acute phase response after pulmonary exposure in mice. Environmental Toxicology and Pharmacology, 2020, 73, 103266.	2.0	28
26	Range-Finding Risk Assessment of Inhalation Exposure to Nanodiamonds in a Laboratory Environment. International Journal of Environmental Research and Public Health, 2014, 11, 5382-5402.	1.2	26
27	Dip coating of air purifier ceramic honeycombs with photocatalytic TiO2 nanoparticles: A case study for occupational exposure. Science of the Total Environment, 2018, 630, 1283-1291.	3.9	26
28	Occupational exposure during handling and loading of halloysite nanotubes â€" A case study of counting nanofibers. NanoImpact, 2018, 10, 153-160.	2.4	26
29	Facing the key workplace challenge: Assessing and preventing exposure to nanoparticles at source. Inhalation Toxicology, 2009, 21, 17-24.	0.8	25
30	Concept To Estimate Regional Inhalation Dose of Industrially Synthesized Nanoparticles. ACS Nano, 2012, 6, 1195-1203.	7.3	22
31	Particle release and control of worker exposure during laboratory-scale synthesis, handling and simulated spills of manufactured nanomaterials in fume hoods. Journal of Nanoparticle Research, 2018, 20, 48.	0.8	21
32	Quantitative human health risk assessment along the lifecycle of nano-scale copper-based wood preservatives. Nanotoxicology, 2018, 12, 747-765.	1.6	21
33	Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	19
34	Probabilistic risk assessment of emerging materials: case study of titanium dioxide nanoparticles. Nanotoxicology, 2017, 11, 558-568.	1.6	18
35	SUNDS probabilistic human health risk assessment methodology and its application to organic pigment used in the automotive industry. NanoImpact, 2019, 13, 26-36.	2.4	18
36	Exposure Assessment of Particulate Matter from Abrasive Treatment of Carbon and Glass Fibre-Reinforced Epoxy-Composites - Two Case Studies. Aerosol and Air Quality Research, 2015, 15, 1906-1916.	0.9	18

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37	Exposure to Airborne Particles and Volatile Organic Compounds from Polyurethane Molding, Spray Painting, Lacquering, and Gluing in a Workshop. International Journal of Environmental Research and Public Health, 2015, 12, 3756-3773.	1.2	17
38	Characterization of Exposure to Carbon Nanotubes in an Industrial Setting. Annals of Occupational Hygiene, 2015, 59, 586-99.	1.9	16
39	Particle emission rates during electrostatic spray deposition of TiO2 nanoparticle-based photoactive coating. Journal of Hazardous Materials, 2018, 341, 218-227.	6.5	16
40	Regional Inhaled Deposited Dose of Urban Aerosols in an Eastern Mediterranean City. Atmosphere, 2019, 10, 530.	1.0	16
41	The general ventilation multipliers calculated by using a standard Near-Field/Far-Field model. Journal of Occupational and Environmental Hygiene, 2018, 15, D38-D43.	0.4	15
42	Indoor Particle Concentrations, Size Distributions, and Exposures in Middle Eastern Microenvironments. Atmosphere, 2020, 11, 41.	1.0	15
43	Comparison of Geometrical Layouts for a Multi-Box Aerosol Model from a Single-Chamber Dispersion Study. Environments - MDPI, 2018, 5, 52.	1.5	14
44	Can We Trust Real Time Measurements of Lung Deposited Surface Area Concentrations in Dust from Powder Nanomaterials?. Aerosol and Air Quality Research, 2016, 16, 1105-1117.	0.9	13
45	Testing the performance of one and two box models as tools for risk assessment of particle exposure during packing of inorganic fertilizer. Science of the Total Environment, 2019, 650, 2423-2436.	3.9	12
46	Occupational Exposure and Environmental Release: The Case Study of Pouring TiO2 and Filler Materials for Paint Production. International Journal of Environmental Research and Public Health, 2021, 18, 418.	1.2	12
47	Modeling of High Nanoparticle Exposure in an Indoor Industrial Scenario with a One-Box Model. International Journal of Environmental Research and Public Health, 2019, 16, 1695.	1.2	11
48	First order risk assessment for nanoparticle inhalation exposure during injection molding of polypropylene composites and production of tungsten-carbide-cobalt fine powder based upon pulmonary inflammation and surface area dose. NanoImpact, 2017, 6, 30-38.	2.4	10
49	Aerosol characterization and lung deposition of synthesized TiO2 nanoparticles for murine inhalation studies. Journal of Nanoparticle Research, 2011, 13, 2949-2961.	0.8	9
50	Data Shepherding in Nanotechnology. The Exposure Field Campaign Template. Nanomaterials, 2021, 11, 1818.	1.9	9
51	Theoretical Background of Occupational-Exposure Modelsâ€"Report of an Expert Workshop of the ISES Europe Working Group â€œExposure Modelsâ€. International Journal of Environmental Research and Public Health, 2022, 19, 1234.	1.2	9
52	Assessment of exposure determinants and exposure levels by using stationary concentration measurements and a probabilistic near-field/far-field exposure model. Open Research Europe, 0, 1, 72.	2.0	8
53	Evaluating the Theoretical Background of STOFFENMANAGERÂ® and the Advanced REACH Tool. Annals of Work Exposures and Health, 2022, 66, 520-536.	0.6	7
54	Quantifying Emission Factors and Setting Conditions of Use According to ECHA Chapter R.14 for a Spray Process Designed for Nanocoatingsâ€"A Case Study. Nanomaterials, 2022, 12, 596.	1.9	7

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55	Characterization of particle exposure in ferrochromium and stainless steel production. Journal of Occupational and Environmental Hygiene, 2016, 13, 558-568.	0.4	6
56	Indoor dispersion of airborne nano and fine particles: Main factors affecting spatial and temporal distribution in the frame of exposure modeling. Indoor Air, 2019, 29, 803-816.	2.0	6
57	Occupational exposure and markers of genetic damage, systemic inflammation and lung function: a Danish cross-sectional study among air force personnel. Scientific Reports, 2021, 11, 17998.	1.6	6
58	Particles Emission from an Industrial Spray Coating Process Using Nano-Materials. Nanomaterials, 2022, 12, 313.	1.9	6
59	An Efficient Algorithm Scheme for Implementing the TEMOM for Resolving Aerosol Dynamics. Aerosol Science and Engineering, 2017, 1, 119-137.	1.1	5
60	Digital Twins applied to the implementation of Safe-by-Design strategies in nano-processes for the reduction of airborne emission and occupational exposure to nano-forms. Journal of Physics: Conference Series, 2021, 1953, 012010.	0.3	3
61	The Effect of Sampling Inlet Direction and Distance on Particle Source Measurements for Dispersion Modelling. Aerosol and Air Quality Research, 2019, 19, 1114-1125.	0.9	2
62	Relative Differences in Concentration Levels during Sawing and Drilling of Car Bumpers Containing MWCNT and Organic Pigment. Annals of Work Exposures and Health, 2019, 63, 148-157.	0.6	1
63	Nanosized titanium dioxide particle emission potential from a commercial indoor air purifier photocatalytic surface: A case study. Open Research Europe, 0, 2, 84.	2.0	1