

Michael Riediker

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

3,817
citations

33
h-index

60
g-index

99
ext. papers

4,256
ext. citations

4.7
avg. IF

5.46
L-index

#	Paper	IF	Citations
91	Particulate matter exposure in cars is associated with cardiovascular effects in healthy young men. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004 , 169, 934-40	10.2	349
90	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
89	Therapeutic nanoparticles in clinics and under clinical evaluation. <i>Nanomedicine</i> , 2013 , 8, 449-67	5.6	180
88	Practical considerations for conducting ecotoxicity test methods with manufactured nanomaterials: what have we learnt so far?. <i>Ecotoxicology</i> , 2012 , 21, 933-72	2.9	157
87	Use of nanoparticles in Swiss Industry: a targeted survey. <i>Environmental Science & Technology</i> , 2008 , 42, 2253-60	10.3	156
86	Exposure to particulate matter, volatile organic compounds, and other air pollutants inside patrol cars. <i>Environmental Science & Technology</i> , 2003 , 37, 2084-93	10.3	155
85	The oxidative potential of differently charged silver and gold nanoparticles on three human lung epithelial cell types. <i>Journal of Nanobiotechnology</i> , 2015 , 13, 1	9.4	148
84	Interlaboratory comparison of size measurements on nanoparticles using nanoparticle tracking analysis (NTA). <i>Journal of Nanoparticle Research</i> , 2013 , 15, 2101	2.3	131
83	Minimal analytical characterization of engineered nanomaterials needed for hazard assessment in biological matrices. <i>Nanotoxicology</i> , 2011 , 5, 1-11	5.3	126
82	Oxidative stress and inflammation response after nanoparticle exposure: differences between human lung cell monocultures and an advanced three-dimensional model of the human epithelial airways. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 1, S27-40	4.1	124
81	The policy relevance of wear emissions from road transport, now and in the future—an international workshop report and consensus statement. <i>Journal of the Air and Waste Management Association</i> , 2013 , 63, 136-49	2.4	122
80	Cardiovascular effects in patrol officers are associated with fine particulate matter from brake wear and engine emissions. <i>Particle and Fibre Toxicology</i> , 2004 , 1, 2	8.4	113
79	Toxic effects of brake wear particles on epithelial lung cells in vitro. <i>Particle and Fibre Toxicology</i> , 2009 , 6, 30	8.4	100
78	Airborne engineered nanomaterials in the workplace—a review of release and worker exposure during nanomaterial production and handling processes. <i>Journal of Hazardous Materials</i> , 2017 , 322, 17-28	12.8	84
77	Particle toxicology and health - where are we?. <i>Particle and Fibre Toxicology</i> , 2019 , 16, 19	8.4	83
76	Effects of particulate matter on inflammatory markers in the general adult population. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 24	8.4	82
75	In vitro assessment of the pulmonary toxicity and gastric availability of lead-rich particles from a lead recycling plant. <i>Environmental Science & Technology</i> , 2011 , 45, 7888-95	10.3	74

74	Effects of short- and long-term exposures to particulate matter on inflammatory marker levels in the general population. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 19697-19704	5.1	73
73	Inventory of Engineered Nanoparticle-Containing Consumer Products Available in the Singapore Retail Market and Likelihood of Release into the Aquatic Environment. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 12, 8717-43	4.6	58
72	Cardiovascular effects of fine particulate matter components in highway patrol officers. <i>Inhalation Toxicology</i> , 2007 , 19 Suppl 1, 99-105	2.7	58
71	Management of nanomaterials safety in research environment. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 40	8.4	57
70	Estimation of Viral Aerosol Emissions From Simulated Individuals With Asymptomatic to Moderate Coronavirus Disease 2019. <i>JAMA Network Open</i> , 2020 , 3, e2013807	10.4	54
69	Comparative Testing of a Miniature Diffusion Size Classifier to Assess Airborne Ultrafine Particles Under Field Conditions. <i>Aerosol Science and Technology</i> , 2013 , 47, 22-28	3.4	47
68	Associations of short-term particle and noise exposures with markers of cardiovascular and respiratory health among highway maintenance workers. <i>Environmental Health Perspectives</i> , 2014 , 122, 726-32	8.4	45
67	Short-term increase in particulate matter blunts nocturnal blood pressure dipping and daytime urinary sodium excretion. <i>Hypertension</i> , 2012 , 60, 1061-9	8.5	44
66	Comparison of Three Acellular Tests for Assessing the Oxidation Potential of Nanomaterials. <i>Aerosol Science and Technology</i> , 2013 , 47, 218-227	3.4	43
65	Air pollutants enhance rhinoconjunctivitis symptoms in pollen-allergic individuals. <i>Annals of Allergy, Asthma and Immunology</i> , 2001 , 87, 311-8	3.2	43
64	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
63	Detecting the oxidative reactivity of nanoparticles: a new protocol for reducing artifacts. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 2493	2.3	39
62	Biomarkers of oxidative stress and its association with the urinary reducing capacity in bus maintenance workers. <i>Journal of Occupational Medicine and Toxicology</i> , 2011 , 6, 18	2.7	37
61	Nanoparticle reactivity toward dithiothreitol. <i>Nanotoxicology</i> , 2008 , 2, 121-129	5.3	35
60	Residential exposure to drinking water arsenic in Inner Mongolia, China. <i>Toxicology and Applied Pharmacology</i> , 2007 , 222, 351-6	4.6	34
59	Limitations and information needs for engineered nanomaterial-specific exposure estimation and scenarios: recommendations for improved reporting practices. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	33
58	Development of a Control Banding Tool for Nanomaterials. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-8	3.2	32
57	Increase in oxidative stress levels following welding fume inhalation: a controlled human exposure study. <i>Particle and Fibre Toxicology</i> , 2016 , 13, 31	8.4	31

56	Biological impact assessment of nanomaterial used in nanomedicine. introduction to the NanoTEST project. <i>Nanotoxicology</i> , 2015 , 9 Suppl 1, 5-12	5.3	30
55	Exhaled breath condensate pH is increased after moderate exercise. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2007 , 20, 13-8		28
54	Towards a Consensus View on Understanding Nanomaterials Hazards and Managing Exposure: Knowledge Gaps and Recommendations. <i>Materials</i> , 2013 , 6, 1090-1117	3.5	25
53	Nanoparticle usage and protection measures in the manufacturing industry--a representative survey. <i>Journal of Occupational and Environmental Hygiene</i> , 2010 , 7, 224-32	2.9	25
52	Physicochemical characterization of nebulized superparamagnetic iron oxide nanoparticles (SPIONS). <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2015 , 28, 43-51	3.8	22
51	A road map toward a globally harmonized approach for occupational health surveillance and epidemiology in nanomaterial workers. <i>Journal of Occupational and Environmental Medicine</i> , 2012 , 54, 1214-23	2	22
50	Characterization of Tungsten Inert Gas (TIG) Welding Fume Generated by Apprentice Welders. <i>Annals of Occupational Hygiene</i> , 2016 , 60, 205-19		21
49	Benchmark of Nanoparticle Tracking Analysis on Measuring Nanoparticle Sizing and Concentration. <i>Journal of Micro and Nano-Manufacturing</i> , 2017 , 5,	1.3	21
48	The importance of environmental exposures to physical, mental and social well-being. <i>International Journal of Hygiene and Environmental Health</i> , 2004 , 207, 193-201	6.9	20
47	Methodological, political and legal issues in the assessment of the effects of nanotechnology on human health. <i>Journal of Epidemiology and Community Health</i> , 2018 , 72, 148-153	5.1	20
46	Differences in size selective aerosol sampling for pollen allergen detection using high-volume cascade impactors. <i>Clinical and Experimental Allergy</i> , 2000 , 30, 867-73	4.1	19
45	Exhaled breath condensate as a matrix for combustion-based nanoparticle exposure and health effect evaluation. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2014 , 27, 449-58	3.8	18
44	Contribution of fine particulate matter sources to indoor exposure in bars, restaurants, and cafes. <i>Indoor Air</i> , 2010 , 20, 204-12	5.4	18
43	Probing functional groups at the gas-aerosol interface using heterogeneous titration reactions: a tool for predicting aerosol health effects?. <i>ChemPhysChem</i> , 2010 , 11, 3823-35	3.2	18
42	Oxidative Potential of Particles in Different Occupational Environments: A Pilot Study. <i>Annals of Occupational Hygiene</i> , 2015 , 59, 882-94		16
41	Occupational Inhalation Exposures to Nanoparticles at Six Singapore Printing Centers. <i>Environmental Science & Technology</i> , 2020 , 54, 2389-2400	10.3	16
40	Physico-Chemical Characterization and Oxidative Reactivity Evaluation of Aged Brake Wear Particles. <i>Aerosol Science and Technology</i> , 2015 , 49, 65-74	3.4	16
39	Characterisation of nanoparticles resulting from different braking behaviours. <i>International Journal of Biomedical Nanoscience and Nanotechnology</i> , 2010 , 1, 17	0.2	15

38	Short-term effects of particulate matters on pulse pressure in two general population studies. <i>Journal of Hypertension</i> , 2015 , 33, 1144-52	1.9	13
37	Low Exhaled Breath Droplet Formation May Explain Why Children are Poor SARS-CoV-2 Transmitters. <i>Aerosol and Air Quality Research</i> , 2020 , 20, 1513-1515	4.6	13
36	A system to assess the stability of airborne nanoparticle agglomerates under aerodynamic shear. <i>Journal of Aerosol Science</i> , 2015 , 88, 98-108	4.3	12
35	Absorbance enhancement in microplate wells for improved-sensitivity biosensors. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 198-203	11.8	12
34	Building expert consensus on problems of uncertainty and complexity in nanomaterial safety. <i>Nanotechnology Perceptions</i> , 2011 , 7, 82-98	1.5	12
33	Dustiness and Deagglomeration Testing: Interlaboratory Comparison of Systems for Nanoparticle Powders. <i>Aerosol Science and Technology</i> , 2015 , 49, 1222-1231	3.4	11
32	Personal pollen exposure compared to stationary measurements. <i>Journal of Investigational Allergology and Clinical Immunology</i> , 2000 , 10, 200-3	2.3	11
31	Exposure to Fine Particulate Matter Leads to Rapid Heart Rate Variability Changes. <i>Frontiers in Environmental Science</i> , 2018 , 6,	4.8	10
30	Nano-object Release During Machining of Polymer-Based Nanocomposites Depends on Process Factors and the Type of Nanofiller. <i>Annals of Work Exposures and Health</i> , 2017 , 61, 1132-1144	2.4	10
29	Human inhalation exposure to iron oxide particles. <i>BioNanoMaterials</i> , 2013 , 14, 5-23		10
28	Characterization of surface functional groups present on laboratory-generated and ambient aerosol particles by means of heterogeneous titration reactions. <i>Journal of Aerosol Science</i> , 2009 , 40, 534-548	4.3	10
27	Determination of birch pollen allergens in different aerosol sizes. <i>Aerobiologia</i> , 2000 , 16, 251-254	2.4	10
26	Deagglomeration testing of airborne nanoparticle agglomerates: Stability analysis under varied aerodynamic shear and relative humidity conditions. <i>Aerosol Science and Technology</i> , 2016 , 50, 1253-1263	3.4	9
25	Simulation of SARS-CoV-2 Aerosol Emissions in the Infected Population and Resulting Airborne Exposures in Different Indoor Scenarios. <i>Aerosol and Air Quality Research</i> , 2021 , 21, 200531	4.6	9
24	Occupational exposure to inhaled nanoparticles: Are young workers being left in the dust?. <i>Journal of Occupational Health</i> , 2019 , 61, 333-338	2.3	7
23	The multi-facets of sustainable nanotechnology - Lessons from a nanosafety symposium. <i>Nanotoxicology</i> , 2015 , 9, 404-6	5.3	7
22	Exposure of highway maintenance workers to fine particulate matter and noise. <i>Annals of Occupational Hygiene</i> , 2013 , 57, 992-1004		7
21	Effect of the September 11, 2001 terrorist attack on a state highway patrol trooper's heart rate variability. <i>Annals of Noninvasive Electrocardiology</i> , 2005 , 10, 83-5	1.5	7

20	The Flows of Engineered Nanomaterials from Production, Use, and Disposal to the Environment. <i>Handbook of Environmental Chemistry</i> , 2015 , 209-231	0.8	6
19	A method for the preservation and determination of welding fume nanoparticles in exhaled breath condensate. <i>Environmental Science: Nano</i> , 2016 , 3, 357-364	7.1	6
18	Nano-safety research lessons for dealing with aerosol transmissions of COVID-19. <i>Nanotoxicology</i> , 2020 , 14, 866-868	5.3	5
17	Sensitive Photonic System to Measure Oxidative Potential of Airborne Nanoparticles and ROS Levels in Exhaled Air. <i>Procedia Engineering</i> , 2015 , 120, 632-636		5
16	Emission of carbon nanofiber (CNF) from CNF-containing composite adsorbents. <i>Journal of Occupational and Environmental Hygiene</i> , 2012 , 9, D130-5	2.9	5
15	Improving Quality in Nanoparticle-Induced Cytotoxicity Testing by a Tiered Inter-Laboratory Comparison Study. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
14	Coating aerosolized nanoparticles with low-volatile organic compound (LVOC) vapors modifies surface functionality and oxidative reactivity. <i>NanoImpact</i> , 2019 , 14, 100150	5.6	4
13	From nano to micrometer size particles - A characterization of airborne cement particles during construction activities. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122838	12.8	4
12	Air-Liquid Interface Cell Exposures to Nanoparticle Aerosols. <i>Methods in Molecular Biology</i> , 2017 , 1570, 301-313	1.4	3
11	Characterization of nanoparticles in aerosolized photocatalytic and regular cement. <i>Aerosol Science and Technology</i> , 2019 , 53, 540-548	3.4	3
10	Research and development-where people are exposed to nanomaterials. <i>Journal of Occupational Health</i> , 2015 , 57, 179-88	2.3	2
9	Development of a dose-controlled multiculture cell exposure chamber for efficient delivery of airborne and engineered nanoparticles. <i>Journal of Physics: Conference Series</i> , 2013 , 429, 012023	0.3	2
8	Nanopartikel am Arbeitsplatz. <i>Atemwegs- Und Lungenkrankheiten</i> , 2010 , 36, 14-20	1.7	2
7	Chances and Risks of Nanomaterials for Health and Environment. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2009 , 128-133	0.2	2
6	Chronic exposure to metal fume PM on inflammation and stress hormone cortisol in shipyard workers: A repeat measurement study. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 215, 112144	7	2
5	A System to Create Stable Nanoparticle Aerosols from Nanopowders. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	2
4	Coordination and Collaboration in European Research towards Healthy and Safe Nanomaterials. <i>Journal of Physics: Conference Series</i> , 2011 , 304, 012001	0.3	1
3	Estimation of SARS-CoV-2 aerosol emissions from simulated patients with COVID-19 and no to moderate symptoms		1

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| 2 | Towards health-based nano reference values (HNRVs) for occupational exposure: Recommendations from an expert panel.. <i>NanoImpact</i> , 2022 , 26, 100396 | 5.6 | 1 |
| 1 | Airborne reactive oxygen species (ROS) is associated with nano TiO ₂ concentrations in aerosolized cement particles during simulated work activities. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1 | 2.3 | 0 |