

# Thomas A J Kuhlbusch

## List of Publications by Year in descending order

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89  
papers

7,259  
citations

94381

37  
h-index

54882

84  
g-index

92  
all docs

92  
docs citations

92  
times ranked

9762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Firewood residential heating – local versus remote influence on the aerosol burden. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5953-5964.	1.9	1
2	Effects of short-term exposure to fine and ultrafine particles from indoor sources on arterial stiffness – A randomized sham-controlled exposure study. <i>International Journal of Hygiene and Environmental Health</i> , 2019, 222, 1115-1132.	2.1	15
3	The nanoGRAVUR framework to group (nano)materials for their occupational, consumer, environmental risks based on a harmonized set of material properties, applied to 34 case studies. <i>Nanoscale</i> , 2019, 11, 17637-17654.	2.8	38
4	Nanomaterial exposures for worker, consumer and the general public. <i>NanoImpact</i> , 2018, 10, 11-25.	2.4	68
5	In vivo effects: Methodologies and biokinetics of inhaled nanomaterials. <i>NanoImpact</i> , 2018, 10, 38-60.	2.4	75
6	Ultrafine and Fine Particle Number and Surface Area Concentrations and Daily Cause-Specific Mortality in the Ruhr Area, Germany, 2009–2014. <i>Environmental Health Perspectives</i> , 2018, 126, 027008.	2.8	54
7	Contributions of carbonaceous particles from fossil emissions and biomass burning to PM10 in the Ruhr area, Germany. <i>Atmospheric Environment</i> , 2018, 189, 174-186.	1.9	13
8	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.	6.5	108
9	Land use regression modeling of oxidative potential of fine particles, NO2, PM2.5 mass and association to type two diabetes mellitus. <i>Atmospheric Environment</i> , 2017, 171, 181-190.	1.9	13
10	Analytical methods to assess the oxidative potential of nanoparticles: a review. <i>Environmental Science: Nano</i> , 2017, 4, 1920-1934.	2.2	53
11	Standardisation of a European measurement method for organic carbon and elemental carbon in ambient air: results of the field trial campaign and the determination of a measurement uncertainty and working range. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 1249-1259.	1.7	15
12	Arterial blood pressure responses to short-term exposure to fine and ultrafine particles from indoor sources – A randomized sham-controlled exposure study of healthy volunteers. <i>Environmental Research</i> , 2017, 158, 225-232.	3.7	24
13	Emissions and Possible Environmental Implication of Engineered Nanomaterials (ENMs) in the Atmosphere. <i>Atmosphere</i> , 2017, 8, 84.	1.0	46
14	Nanomaterials Versus Ambient Ultrafine Particles: An Opportunity to Exchange Toxicology Knowledge. <i>Environmental Health Perspectives</i> , 2017, 125, 106002.	2.8	274
15	Comparison of Land-Use Regression Modeling with Dispersion and Chemistry Transport Modeling to Assign Air Pollution Concentrations within the Ruhr Area. <i>Atmosphere</i> , 2016, 7, 48.	1.0	30
16	Exposure to ultrafine particles and respiratory hospitalisations in five European cities. <i>European Respiratory Journal</i> , 2016, 48, 674-682.	3.1	28
17	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.	1.5	10
18	Release from nanomaterials during their use phase: combined mechanical and chemical stresses applied to simple and multi-filler nanocomposites mimicking wear of nano-reinforced tires. <i>Environmental Science: Nano</i> , 2016, 3, 1036-1051.	2.2	38

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19	Influence of agglomeration and specific lung lining lipid/protein interaction on short-term inhalation toxicity. <i>Nanotoxicology</i> , 2016, 10, 970-980.	1.6	55
20	A redox proteomics approach to investigate the mode of action of nanomaterials. <i>Toxicology and Applied Pharmacology</i> , 2016, 299, 24-29.	1.3	17
21	Size matters – The phototoxicity of TiO <sub>2</sub> nanomaterials. <i>Environmental Pollution</i> , 2016, 208, 859-867.	3.7	30
22	Long-term observations of tropospheric particle number size distributions and equivalent black carbon mass concentrations in the German Ultrafine Aerosol Network (GUAN). <i>Earth System Science Data</i> , 2016, 8, 355-382.	3.7	63
23	Proteomic analysis of protein carbonylation: a useful tool to unravel nanoparticle toxicity mechanisms. <i>Particle and Fibre Toxicology</i> , 2015, 12, 36.	2.8	49
24	Dustiness and Deagglomeration Testing: Interlaboratory Comparison of Systems for Nanoparticle Powders. <i>Aerosol Science and Technology</i> , 2015, 49, 1222-1231.	1.5	12
25	A Review of the Properties and Processes Determining the Fate of Engineered Nanomaterials in the Aquatic Environment. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 2084-2134.	6.6	172
26	Elemental composition and radical formation potency of PM <sub>10</sub> at an urban background station in Germany in relation to origin of air masses. <i>Atmospheric Environment</i> , 2015, 105, 1-6.	1.9	16
27	Agreement of central site measurements and land use regression modeled oxidative potential of PM <sub>2.5</sub> with personal exposure. <i>Environmental Research</i> , 2015, 140, 397-404.	3.7	9
28	Mobility of coated and uncoated TiO <sub>2</sub> nanomaterials in soil columns – Applicability of the tests methods of OECD TG 312 and 106 for nanomaterials. <i>Journal of Environmental Management</i> , 2015, 157, 230-237.	3.8	13
29	Oxidative potential of particulate matter at a German motorway. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 868-876.	1.7	15
30	A multicentre study of air pollution exposure and childhood asthma prevalence: the ESCAPE project. <i>European Respiratory Journal</i> , 2015, 45, 610-624.	3.1	119
31	Temporal and spatial variation of the metal-related oxidative potential of PM <sub>2.5</sub> and its relation to PM <sub>2.5</sub> mass and elemental composition. <i>Atmospheric Environment</i> , 2015, 102, 62-69.	1.9	34
32	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. <i>Occupational and Environmental Medicine</i> , 2015, 72, 49-56.	1.3	105
33	Measurements of Nanoscale TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> in Industrial Workplace Environments - Methodology and Results. <i>Aerosol and Air Quality Research</i> , 2015, 15, 129-141.	0.9	25
34	Respiratory Effects of Fine and Ultrafine Particles from Indoor Sources – A Randomized Sham-Controlled Exposure Study of Healthy Volunteers. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 6871-6889.	1.2	30
35	Examples and Case Studies. , 2014, , 223-278.		3
36	Association of ambient air pollution with the prevalence and incidence of COPD. <i>European Respiratory Journal</i> , 2014, 44, 614-626.	3.1	163

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37	Elemental Composition of Particulate Matter and the Association with Lung Function. <i>Epidemiology</i> , 2014, 25, 648-657.	1.2	59
38	Air Pollution and Nonmalignant Respiratory Mortality in 16 Cohorts within the ESCAPE Project. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 189, 684-696.	2.5	63
39	Dynamic light-scattering measurement comparability of nanomaterial suspensions. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	37
40	Behavior of nanoscale titanium dioxide in laboratory wastewater treatment plants according to OECD 303 A. <i>Chemosphere</i> , 2014, 104, 197-204.	4.2	36
41	Nanoparticle release from dental composites. <i>Acta Biomaterialia</i> , 2014, 10, 365-374.	4.1	68
42	Fate and Bioavailability of Engineered Nanoparticles in Soils: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 2720-2764.	6.6	354
43	From Source to Dose. , 2014, , 135-171.		3
44	Intrinsic hydroxyl radical generation measurements directly from sampled filters as a metric for the oxidative potential of ambient particulate matter. <i>Journal of Aerosol Science</i> , 2014, 72, 47-55.	1.8	36
45	New Directions: The future of European urban air quality monitoring. <i>Atmospheric Environment</i> , 2014, 87, 258-260.	1.9	19
46	Oxidative potential of particulate matter collected at sites with different source characteristics. <i>Science of the Total Environment</i> , 2014, 472, 572-581.	3.9	228
47	Measurement of the oxidative potential of PM2.5 and its constituents: The effect of extraction solvent and filter type. <i>Atmospheric Environment</i> , 2014, 83, 35-42.	1.9	147
48	Design and experimental evaluation of a new nanoparticle thermophoretic personal sampler. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	21
49	Comparability of mobility particle sizers and diffusion chargers. <i>Journal of Aerosol Science</i> , 2013, 57, 156-178.	1.8	98
50	Towards a Consensus View on Understanding Nanomaterials Hazards and Managing Exposure: Knowledge Gaps and Recommendations. <i>Materials</i> , 2013, 6, 1090-1117.	1.3	28
51	Zinc Oxide Nanoparticles Induce Necrosis and Apoptosis in Macrophages in a p47phox- and Nrf2-Independent Manner. <i>PLoS ONE</i> , 2013, 8, e65704.	1.1	111
52	Development of NO2 and NOx land use regression models for estimating air pollution exposure in 36 study areas in Europe – The ESCAPE project. <i>Atmospheric Environment</i> , 2013, 72, 10-23.	1.9	719
53	Air Pollution Monitoring Strategies and Technologies for Urban Areas. <i>Handbook of Environmental Chemistry</i> , 2013, , 277-296.	0.2	3
54	Editorial by the guest editors. <i>BioNanoMaterials</i> , 2013, 14, 3.	1.4	1

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55	Size Resolved Particle Number Emission Factors of Motorway Traffic Differentiated between Heavy and Light Duty Vehicles. <i>Aerosol and Air Quality Research</i> , 2013, 13, 450-461.	0.9	25
56	Comparison of Micro- and Nanoscale Fe <sup>3+</sup> -Containing (Hematite) Particles for Their Toxicological Properties in Human Lung Cells In Vitro. <i>Toxicological Sciences</i> , 2012, 126, 173-182.	1.4	47
57	Comparability of Portable Nanoparticle Exposure Monitors. <i>Annals of Occupational Hygiene</i> , 2012, 56, 606-21.	1.9	59
58	Spatial variation of PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>2.5</sub> absorbance and PM <sub>coarse</sub> concentrations between and within 20 European study areas and the relationship with NO <sub>2</sub> – Results of the ESCAPE project. <i>Atmospheric Environment</i> , 2012, 46, 303-317.	1.9	392
59	Mathematical Description of Experimentally Determined Charge Distributions of a Unipolar Diffusion Charger. <i>Aerosol Science and Technology</i> , 2012, 46, 708-716.	1.5	19
60	Total Surface Area Concentration Measurements of Nanoparticles in Gases with an Electrical Sensor. <i>Chemie-Ingenieur-Technik</i> , 2012, 84, 365-372.	0.4	10
61	Emission measurement and safety assessment for the production process of silicon nanoparticles in a pilot-scale facility. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	24
62	How can nanobiotechnology oversight advance science and industry: examples from environmental, health, and safety studies of nanoparticles (nano-EHS). <i>Journal of Nanoparticle Research</i> , 2011, 13, 1373-1387.	0.8	68
63	Nanoparticle exposure at nanotechnology workplaces: A review. <i>Particle and Fibre Toxicology</i> , 2011, 8, 22.	2.8	341
64	A Low Pressure Drop Preseparator for Elimination of Particles Larger than 450 nm. <i>Aerosol and Air Quality Research</i> , 2011, 11, 487-496.	0.9	18
65	Internal Exposure, Effect Monitoring, and Lung Function in Welders After Acute Short-Term Exposure to Welding Fumes From Different Welding Processes. <i>Journal of Occupational and Environmental Medicine</i> , 2010, 52, 887-892.	0.9	27
66	Sources and source contributions to fine particles. <i>Biomarkers</i> , 2009, 14, 23-28.	0.9	19
67	Quality considerations of European PM emission inventories. <i>Atmospheric Environment</i> , 2009, 43, 3819-3828.	1.9	24
68	Conceptual limitations and extensions of lung-deposited Nanoparticle Surface Area Monitor (NSAM). <i>Journal of Nanoparticle Research</i> , 2009, 11, 101-109.	0.8	119
69	Comparison of four mobility particle sizers with different time resolution for stationary exposure measurements. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1593-1609.	0.8	131
70	Optimisation of a thermophoretic personal sampler for nanoparticle exposure studies. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1611-1624.	0.8	27
71	Investigation of airborne nanopowder agglomerate stability in an orifice under various differential pressure conditions. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1625-1635.	0.8	29
72	Eczema, respiratory allergies, and traffic-related air pollution in birth cohorts from small-town areas. <i>Journal of Dermatological Science</i> , 2009, 56, 99-105.	1.0	97

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73	Nanoparticle contamination control for EUVL-technology: especially for photomasks in carriers and scanners. Proceedings of SPIE, 2009, , .	0.8	0
74	Analytical-statistical model to accurately estimate diffusional nanoparticle deposition on inverted surfaces at low pressure. Applied Physics Letters, 2008, 92, 064107.	1.5	6
75	Model for the combination of diffusional and inertial particle deposition on inverse surfaces at low pressure. Applied Physics Letters, 2008, 93, 054104.	1.5	7
76	Particle Characteristics in the Reactor and Pelletizing Areas of Carbon Black Production. Journal of Occupational and Environmental Hygiene, 2006, 3, 558-567.	0.4	77
77	The potential risks of nanomaterials: a review carried out for ECETOC. Particle and Fibre Toxicology, 2006, 3, 11.	2.8	1,067
78	Predicting long-term average concentrations of traffic-related air pollutants using GIS-based information. Atmospheric Environment, 2006, 40, 542-553.	1.9	112
79	Effect of corona discharge on the gas composition of the sample flow in a Gas Particle Partitioner. Journal of Environmental Monitoring, 2005, 7, 877.	2.1	8
80	Number Size Distribution, Mass Concentration, and Particle Composition of PM1, PM2.5, and PM10 in Bag Filling Areas of Carbon Black Production. Journal of Occupational and Environmental Hygiene, 2004, 1, 660-671.	0.4	137
81	Development of an Electrostatic Partitioner for Highly Efficient Partitioning of Gas and Particles with Minimal Effect on the Gas Phase. Aerosol Science and Technology, 2004, 38, 322-329.	1.5	14
82	Hydroxyl radical generation by electron paramagnetic resonance as a new method to monitor ambient particulate matter composition. Journal of Environmental Monitoring, 2003, 5, 550.	2.1	166
83	Development of a PM 10/PM 2.5 Cascade Impactor and In-Stack Measurements. Aerosol Science and Technology, 2003, 37, 694-702.	1.5	8
84	Comparative analysis of black carbon in soils. Global Biogeochemical Cycles, 2001, 15, 163-167.	1.9	267
85	Correlation studies of particle characteristics and trace gas concentrations at a traffic site in D $\ddot{A}$ sseldorf, Germany. Journal of Aerosol Science, 2000, 31, 562-563.	1.8	3
86	Thermodynamic influences on size fractionated measurements (PM 2.5, PM 10) of ambient aerosols. Journal of Environmental Monitoring, 1999, 1, 409-412.	2.1	2
87	Carbon trace gases in lake and beaver pond ice near Thompson, Manitoba, Canada. Journal of Geophysical Research, 1999, 104, 27693-27698.	3.3	5
88	Sources, determination, monitoring, and transport of carbonaceous aerosols in Mainz, Germany. Atmospheric Environment, 1998, 32, 1097-1110.	1.9	25
89	Carbon monoxide fluxes of different soil layers in upland Canadian boreal forests. Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 353-365.	0.8	10