Andrew D Maynard

List of Publications by Citations

116 papers	12,989 citations	39 h-index	113 g-index
127 ext. papers	13,854 ext. citations	10.1 avg, IF	6.32 L-index

#	Paper	IF	Citations
116	Carbon nanotubes introduced into the abdominal cavity of mice show asbestos-like pathogenicity in a pilot study. *Nature Nanotechnology*, **2008**, 3, 423-8	28.7	2057
115	Principles for characterizing the potential human health effects from exposure to nanomaterials: elements of a screening strategy. *Particle and Fibre Toxicology*, **2005**, 2, 8	8.4	1418
114	Safe handling of nanotechnology. *Nature*, **2006**, 444, 267-9	50.4	1202
113	Unusual inflammatory and fibrogenic pulmonary responses to single-walled carbon nanotubes in mice. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2005**, 289, L698-708	5.8	984
112	Exposure to carbon nanotube material: assessment of nanotube cytotoxicity using human keratinocyte cells. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2003**, 66, 1909-26	3.2	951
111	Translocation of inhaled ultrafine manganese oxide particles to the central nervous system. *Environmental Health Perspectives*, **2006**, 114, 1172-8	8.4	789
110	Exposure to carbon nanotube material: aerosol release during the handling of unrefined single-walled carbon nanotube material. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2004**, 67, 87-107	3.2	584
109	Inhalation vs. aspiration of single-walled carbon nanotubes in C57BL/6 mice: inflammation, fibrosis, oxidative stress, and mutagenesis. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2008**, 295, L552-65	5.8	494
108	Airborne Nanostructured Particles and Occupational Health. *Journal of Nanoparticle Research*, **2005**, 7, 587-614	2.3	391
107	Research strategies for safety evaluation of nanomaterials, part IV: risk assessment of nanoparticles. *Toxicological Sciences*, **2006**, 89, 42-50	4.4	371
106	The new toxicology of sophisticated materials: nanotoxicology and beyond. *Toxicological Sciences*, **2011**, 120 Suppl 1, S109-29	4.4	256
105	Assessing exposure to airborne nanomaterials: Current abilities and future requirements. *Nanotoxicology*, **2007**, 1, 26-41	5.3	206
104	Nanotechnology: the next big thing, or much ado about nothing?. *Annals of Occupational Hygiene*, **2007**, 51, 1-12		185
103	Nanotechnology: assessing the risks. *Nano Today*, **2006**, 1, 22-33	17.9	167
102	Don't define nanomaterials. *Nature*, **2011**, 475, 31	50.4	126
101	Late lessons from early warnings for nanotechnology. *Nature Nanotechnology*, **2008**, 3, 444-7	28.7	113
100	Navigating the fourth industrial revolution. *Nature Nanotechnology*, **2015**, 10, 1005-6	28.7	110

99	A survey of wind speeds in indoor workplaces. *Annals of Occupational Hygiene*, **1998**, 42, 303-13		104
98	Exposure assessment approaches for engineered nanomaterials. *Risk Analysis*, **2010**, 30, 1634-44	3.9	95
97	Comparing aerosol surface-area measurements of monodisperse ultrafine silver agglomerates by mobility analysis, transmission electron microscopy and diffusion charging. *Journal of Aerosol Science*, **2005**, 36, 1108-1124	4.3	92
96	Rapid Kinetics of Size and pH-Dependent Dissolution and Aggregation of Silver Nanoparticles in Simulated Gastric Fluid. *Journal of Physical Chemistry C*, **2015**, 119, 20632-20641	3.8	89
95	A strategy for assessing workplace exposures to nanomaterials. *Journal of Occupational and Environmental Hygiene*, **2011**, 8, 673-85	2.9	76
94	THE SAMPLING EFFICIENCY OF PERSONAL INHALABLE AEROSOL SAMPLERS IN LOW AIR MOVEMENT ENVIRONMENTS. *Journal of Aerosol Science*, **1999**, 30, 627-638	4.3	76
93	AEROSOL INHALABILITY IN LOW AIR MOVEMENT ENVIRONMENTS. *Journal of Aerosol Science*, **1999**, 30, 613-626	4.3	75
92	The mapping of fine and ultrafine particle concentrations in an engine machining and assembly facility. *Annals of Occupational Hygiene*, **2006**, 50, 249-57		74
91	Repeated dose (28-day) administration of silver nanoparticles of varied size and coating does not significantly alter the indigenous murine gut microbiome. *Nanotoxicology*, **2016**, 10, 513-20	5.3	73
90	Health risk assessment for nanoparticles: A case for using expert judgment. *Journal of Nanoparticle Research*, **2006**, 9, 137-156	2.3	72
89	Relationships among particle number, surface area, and respirable mass concentrations in automotive engine manufacturing. *Journal of Occupational and Environmental Hygiene*, **2009**, 6, 19-31	2.9	66
88	Phospholipid lung surfactant and nanoparticle surface toxicity: Lessons from diesel soots and silicate dusts. *Journal of Nanoparticle Research*, **2006**, 9, 23-38	2.3	66
87	A derived association between ambient aerosol surface area and excess mortality using historic time series data. *Atmospheric Environment*, **2002**, 36, 5561-5567	5.3	59
86	Recirculating air filtration significantly reduces exposure to airborne nanoparticles. *Environmental Health Perspectives*, **2008**, 116, 863-6	8.4	57
85	In situ structure characterization of airborne carbon nanofibres by a tandem mobility-mass analysis. *Nanotechnology*, **2006**, 17, 3613-21	3.4	57
84	Effects of particle size and coating on toxicologic parameters, fecal elimination kinetics and tissue distribution of acutely ingested silver nanoparticles in a mouse model. *Nanotoxicology*, **2016**, 10, 352-60	5.3	53
83	Performance assessment of three personal cyclone models, using an Aerodynamic Particle Sizer. *Journal of Aerosol Science*, **1995**, 26, 671-684	4.3	53
82	Generation and investigation of airborne silver nanoparticles with specific size and morphology by homogeneous nucleation, coagulation and sintering. *Journal of Aerosol Science*, **2006**, 37, 452-470	4.3	52

81	'Safe handling of nanotechnology' ten years on. *Nature Nanotechnology*, **2016**, 11, 998-1000	28.7	50
80	Protein Corona-Induced Modification of Silver Nanoparticle Aggregation in Simulated Gastric Fluid. *Environmental Science: Nano*, **2016**, 3, 1510-1520	7.1	45
79	Measuring Nanomaterial Release from Carbon Nanotube Composites: Review of the State of the Science. *Journal of Physics: Conference Series*, **2015**, 617, 012026	0.3	41
78	Laboratory and field evaluation of a new personal sampling system for assessing the protection provided by the N95 filtering facepiece respirators against particles. *Annals of Occupational Hygiene*, **2005**, 49, 245-57		37
77	Investigation of the aerosols produced by a high-speed, hand-held grinder using various substrates. *Annals of Occupational Hygiene*, **2002**, 46, 663-72		37
76	Estimating aerosol surface area from number and mass concentration measurements. *Annals of Occupational Hygiene*, **2003**, 47, 123-44		36
75	Women's personal and indoor exposures to PM2.5 in Mysore, India: Impact of domestic fuel usage. *Atmospheric Environment*, **2005**, 39, 5500-5508	5.3	35
74	Measuring particle size-dependent physicochemical structure in airborne single walled carbon nanotube agglomerates. *Journal of Nanoparticle Research*, **2006**, 9, 85-92	2.3	33
73	Development of a Personal Sampler for Collecting Fungal Spores. *Aerosol Science and Technology*, **2004**, 38, 926-937	3.4	33
72	A critical analysis of the environmental dossiers from the OECD sponsorship programme for the testing of manufactured nanomaterials. *Environmental Science: Nano*, **2017**, 4, 282-291	7.1	32
71	The Development of a New Thermophoretic Precipitator for Scanning Transmission Electron Microscope Analysis of Ultrafine Aerosol Particles. *Aerosol Science and Technology*, **1995**, 23, 521-533	3.4	30
70	Too small to overlook. *Nature*, **2009**, 460, 174	50.4	29
69	The problem of regulating sophisticated materials. *Nature Materials*, **2011**, 10, 554-7	27	27
68	Overview of methods for analysing single ultrafine particles. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2000**, 358, 2593-2610	3	27
67	Nanotechnology: Rhetoric, risk and regulation. *Science and Public Policy*, **2014**, 41, 1-14	1.8	26
66	International Handbook on Regulating Nanotechnologies **2010**,		26
65	Fine particle number and mass concentration measurements in urban Indian households. *Science of the Total Environment*, **2005**, 347, 131-47	10.2	25
64	Measurement of aerosol penetration through six personal thoracic samplers under calm air conditions. *Journal of Aerosol Science*, **1999**, 30, 1227-1242	4.3	24

63	State of knowledge on the occupational exposure to carbon nanotubes. *International Journal of Hygiene and Environmental Health*, **2020**, 225, 113472	6.9	21
62	Old materials, new challenges?. *Nature Nanotechnology*, **2014**, 9, 658-9	28.7	21
61	Observation and measurement of anomalous responses in a differential mobility analyzer caused by ultrafine fibrous carbon aerosols. *Journal of Electrostatics*, **2007**, 65, 542-548	1.7	21
60	Recommendations for nanomedicine human subjects research oversight: an evolutionary approach for an emerging field. *Journal of Law, Medicine and Ethics*, **2012**, 40, 716-50	1.2	20
59	Examining Elemental Surface Enrichment in Ultrafine Aerosol Particles Using Analytical Scanning Transmission Electron Microscopy. *Aerosol Science and Technology*, **2004**, 38, 365-381	3.4	20
58	A decade of uncertainty. *Nature Nanotechnology*, **2014**, 9, 159-60	28.7	19
57	A SIMPLE MODEL OF AXIAL FLOW CYCLONE PERFORMANCE UNDER LAMINAR FLOW CONDITIONS. *Journal of Aerosol Science*, **2000**, 31, 151-167	4.3	19
56	Are assumptions of consumer views impeding nano-based water treatment technologies?. *Nature Nanotechnology*, **2018**, 13, 673-674	28.7	18
55	Comparison of two estimation methods for surface area concentration using number concentration and mass concentration of combustion-related ultrafine particles. *Atmospheric Environment*, **2009**, 43, 502-509	5.3	18
54	Nano risk analysis: advancing the science for nanomaterials risk management. *Risk Analysis*, **2010**, 30, 1680-7	3.9	17
53	The application of electron energy-loss spectroscopy to the analysis of ultrafine aerosol particles. *Journal of Aerosol Science*, **1995**, 26, 757-777	4.3	16
52	Exposure to Power-Frequency Magnetic Fields and the Risk of Infertility and Adverse Pregnancy Outcomes: Update on the Human Evidence and Recommendations for Future Study Designs. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews*, **2016**, 19, 29-45	8.6	16
51	A □olution-focused□comparative risk assessment of conventional and synthetic biology approaches to control mosquitoes carrying the dengue fever virus. *Environment Systems and Decisions*, **2018**, 38, 177-197	4.1	16
50	The psychology of 'regrettable substitutions': Examining consumer judgements of Bisphenol A and its alternatives. *Health, Risk and Society*, **2014**, 16, 649-666	2	15
49	The (nano) entrepreneur's dilemma. *Nature Nanotechnology*, **2015**, 10, 199-200	28.7	13
48	Measurement of short-term exposure to airborne soluble platinum in the platinum industry. *Annals of Occupational Hygiene*, **1997**, 41, 77-94		13
47	Health risk assessment for nanoparticles: A case for using expert judgment **2006**, 137-156		13
46	Development of a system to rapidly measure sampler penetration up to 20 □m aerodynamic diameter in calm air, using the aerodynamic particle sizer. *Journal of Aerosol Science*, **1999**, 30, 1215-1226	4.3	11

45	Development and Validation of a Simple Numerical Model for Estimating Workplace Aerosol Size Distribution Evolution Through Coagulation, Settling, and Diffusion. *Aerosol Science and Technology* , **2003**, 37, 804-817	3.4	10
44	Why we need risk innovation. *Nature Nanotechnology*, **2015**, 10, 730-1	28.7	9
43	Thoracic size-selective sampling of fibres: performance of four types of thoracic sampler in laboratory tests. *Annals of Occupational Hygiene*, **2005**, 49, 481-92		9
42	Thoracic size-selection of fibres: dependence of penetration on fibre length for five thoracic sampler types. *Annals of Occupational Hygiene*, **2002**, 46, 511-22		9
41	Public perceptions for the use of nanomaterials for in-home drinking water purification devices. *NanoImpact*, **2020**, 18, 100220	5.6	8
40	Are we ready for spray-on carbon nanotubes?. *Nature Nanotechnology*, **2016**, 11, 490-491	28.7	8
39	Is novelty overrated?. *Nature Nanotechnology*, **2014**, 9, 409-10	28.7	8
38	Could we 3D print an artificial mind?. *Nature Nanotechnology*, **2014**, 9, 955-6	28.7	8
37	Evaluation of misting controls to reduce respirable silica exposure for brick cutting. *Annals of Occupational Hygiene*, **2005**, 49, 503-10		8
36	Handling worker and third-party exposures to nanotherapeutics during clinical trials. *Journal of Law, Medicine and Ethics*, **2012**, 40, 856-64	1.2	7
35	How to Succeed as an Academic on YouTube. *Frontiers in Communication*, **2021**, 5,	2.5	7
34	Workplace Aerosol Measurement **2011**, 571-590		6
33	Electron energy loss spectroscopy of ultrafine aerosol particles in the scanning transmission electron microscope. *Journal of Aerosol Science*, **1992**, 23, 433-436	4.3	6
32	36 P 06 Respirable dust sampler characterisation: Efficiency curve reproducibility. *Journal of Aerosol Science*, **1993**, 24, S457-S458	4.3	6
31	Survey of industrial perceptions for the use of nanomaterials for in-home drinking water purification devices.. *NanoImpact*, **2021**, 22, 100320	5.6	6
30	Navigating the risk landscape. *Nature Nanotechnology*, **2016**, 11, 211-2	28.7	5
29	Commentary: Oversight of engineered nanomaterials in the workplace. *Journal of Law, Medicine and Ethics*, **2009**, 37, 651-8	1.2	4
28	The collection of ultrafine aerosol particles for analysis bytransmission electron microscopy, using a new thermophoretic precipitator. *Journal of Aerosol Science*, **1991**, 22, S379-S382	4.3	4

27	The Ethical and Responsible Development and Application of Advanced Brain Machine Interfaces. *Journal of Medical Internet Research*, **2019**, 21, e16321	7.6	4
26	Nanotechnologies: Overview and Issues **2007**, 1-14		4
25	Nanomaterials in Cosmetics **2018**, 289-302		3
24	Learning from the past. *Nature Nanotechnology*, **2015**, 10, 482-3	28.7	3
23	Challenges of Trainees in a Multidisciplinary Research Program: Nano-Biotechnology. *Journal of Chemical Education*, **2011**, 88, 53-55	2.4	3
22	Microscopy in solid state science. *Microscopy Research and Technique*, **1993**, 24, 299-315	2.8	3
21	Chapter 7:Nanoparticle Safety A Perspective from the United States. *Issues in Environmental Science and Technology*,118-131	0.7	3
20	Is nanotech failing casual learners?. *Nature Nanotechnology*, **2016**, 11, 734-5	28.7	3
19	PERSONAL MEASURES OF POWER-FREQUENCY MAGNETIC FIELD EXPOSURE AMONG MEN FROM AN INFERTILITY CLINIC: DISTRIBUTION, TEMPORAL VARIABILITY AND CORRELATION WITH THEIR FEMALE PARTNERS' EXPOSURE. *Radiation Protection Dosimetry*, **2016**, 172, 401-408	0.9	2
18	Challenges in Nanoparticle Risk Assessment **2011**, 1-19		2
17	Sampling errors associated with sampling plate-like particles using the Higgins- and Dewell-type personal respirable cyclone. *Journal of Aerosol Science*, **1996**, 27, 575-585	4.3	2
16	Nanotoxicology **2007**, 1-6		2
15	Thinking Differently about Risk. *Astrobiology*, **2018**, 18, 244-245	3.7	1
14	The Challenge of Nanomaterial Risk Assessment **2016**, 1-20		1
13	Introduction: The Regulatory Challenges for Nanotechnologies		1
12	An Investigation of Short-Term Gravimetric Sampling in Pig Farms and Bakeries. *Journal of Occupational and Environmental Hygiene*, **1997**, 12, 662-669		1
11	Phospholipid lung surfactant and nanoparticle surface toxicity: Lessons from diesel soots and silicate dusts **2006**, 23-38		1
10	Living with nanoparticles. *Nano Today*, **2008**, 3, 64	17.9	1

9 Nanotechnology and occupational health: New technologies new challenges **2006**, 1-3 1

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7 What Are the Warning Signs That We Should Be Looking For? **2014**, 9-24

6 Exploring Boundaries Around the Safe Use of Advanced Materials **2014**, 339-363

5 OVERVIEW OF METHODS FOR ANALYSING SINGLE ULTRAFINE PARTICLES **2003**, 37-60

4 26.P.06 The generation of micro-machined particle aerosols for characterising aerosol samplers. *Journal of Aerosol Science*, **1994**, 25, 445-446 4.3

3 Measuring particle size-dependent physicochemical structure in airborne single walled carbon nanotube agglomerates **2006**, 85-92

2 Aerosols in the industrial environment **2004**, 220-259

1 Exploring Boundaries Around the Safe Use of Advanced Materials **2018**, 427-452