

Mark D Hoover

List of Publications by Year in descending order

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103
papers

3,201
citations

159585

30
h-index

168389

53
g-index

107
all docs

107
docs citations

107
times ranked

3316
citing authors

#	ARTICLE	IF	CITATIONS
1	Raw Single-Wall Carbon Nanotubes Induce Oxidative Stress and Activate MAPKs, AP-1, NF- κ B, and Akt in Normal and Malignant Human Mesothelial Cells. <i>Environmental Health Perspectives</i> , 2008, 116, 1211-1217.	6.0	354
2	Occupational Risk Management of Engineered Nanoparticles. <i>Journal of Occupational and Environmental Hygiene</i> , 2008, 5, 239-249.	1.0	202
3	Efficacy of a Technique for Exposing the Mouse Lung to Particles Aspirated from the Pharynx. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2003, 66, 1441-1452.	2.3	191
4	Identification and Characterization of Potential Sources of Worker Exposure to Carbon Nanofibers During Polymer Composite Laboratory Operations. <i>Journal of Occupational and Environmental Hygiene</i> , 2007, 4, D125-D130.	1.0	114
5	Opportunities and challenges of nanotechnology in the green economy. <i>Environmental Health</i> , 2014, 13, 78.	4.0	112
6	Implanted depleted uranium fragments cause soft tissue sarcomas in the muscles of rats.. <i>Environmental Health Perspectives</i> , 2002, 110, 51-59.	6.0	107
7	Occupational safety and health criteria for responsible development of nanotechnology. <i>Journal of Nanoparticle Research</i> , 2014, 16, 2153.	1.9	106
8	Use of the "Exposome" in the Practice of Epidemiology: A Primer on -Omic Technologies. <i>American Journal of Epidemiology</i> , 2016, 184, 302-314.	3.4	98
9	Characterization of phagolysosomal simulant fluid for study of beryllium aerosol particle dissolution. <i>Toxicology in Vitro</i> , 2005, 19, 123-134.	2.4	91
10	How should the completeness and quality of curated nanomaterial data be evaluated?. <i>Nanoscale</i> , 2016, 8, 9919-9943.	5.6	86
11	Particle size-dependent radical generation from wildland fire smoke. <i>Toxicology</i> , 2007, 236, 103-113.	4.2	72
12	Species differences in urinary butadiene metabolites; identification of l,2-dihydroxy-4-(N-acetylcysteiny)butane, a novel metabolite of butadiene. <i>Carcinogenesis</i> , 1992, 13, 1633-1638.	2.8	71
13	Integration among databases and data sets to support productive nanotechnology: Challenges and recommendations. <i>NanoImpact</i> , 2018, 9, 85-101.	4.5	56
14	Characterization of physicochemical properties of beryllium aerosols associated with prevalence of chronic beryllium disease. <i>Journal of Environmental Monitoring</i> , 2004, 6, 523.	2.1	54
15	Toward the Responsible Development and Commercialization of Sensor Nanotechnologies. <i>ACS Sensors</i> , 2016, 1, 207-216.	7.8	52
16	Compartmental modeling of the long-term retention of insoluble particles deposited in the alveolar region of the lung. <i>Fundamental and Applied Toxicology</i> , 1989, 13, 823-842.	1.8	49
17	Exposures and Cross-shift Lung Function Declines in Wildland Firefighters. <i>Journal of Occupational and Environmental Hygiene</i> , 2014, 11, 591-603.	1.0	49
18	Determination of the Oxide Layer Thickness on Beryllium Metal Particles. <i>AIHA Journal</i> , 1989, 50, 550-553.	0.4	44

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19	In vitro dissolution characteristics of beryllium oxide and beryllium metal aerosols. <i>Journal of Aerosol Science</i> , 1988, 19, 333-342.	3.8	43
20	Surface Area of Respirable Beryllium Metal, Oxide, and Copper Alloy Aerosols and Implications for Assessment of Exposure Risk of Chronic Beryllium Disease. <i>AIHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety</i> , 2003, 64, 297-305.	0.4	43
21	Exposure Pathway Assessment at a Copper Beryllium Alloy Facility. <i>Annals of Occupational Hygiene</i> , 2006, 51, 67-80.	1.9	43
22	Metadata Stewardship in Nanosafety Research: Community-Driven Organisation of Metadata Schemas to Support FAIR Nanoscience Data. <i>Nanomaterials</i> , 2020, 10, 2033.	4.1	41
23	The Nanomaterial Data Curation Initiative: A collaborative approach to assessing, evaluating, and advancing the state of the field. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1752-1762.	2.8	40
24	The acute toxicity of inhaled beryllium metal in rats*1. <i>Fundamental and Applied Toxicology</i> , 1990, 15, 767-778.	1.8	39
25	Aerosols Generated During Beryllium Machining. <i>Journal of Occupational and Environmental Medicine</i> , 2000, 42, 8.	1.7	39
26	Informatics and standards for nanomedicine technology. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2011, 3, 511-532.	6.1	36
27	Interpreting Mobile and Handheld Air Sensor Readings in Relation to Air Quality Standards and Health Effect Reference Values: Tackling the Challenges. <i>Atmosphere</i> , 2017, 8, 182.	2.3	35
28	Regulatory T cells modulate granulomatous inflammation in an HLA-DP2 transgenic murine model of beryllium-induced disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8553-8558.	7.1	34
29	Differences in dissolution behavior in a phagolysosomal simulant fluid for single-constituent and multi-constituent materials associated with beryllium sensitization and chronic beryllium disease. <i>Toxicology in Vitro</i> , 2006, 20, 82-95.	2.4	32
30	Disposition of Polycyclic Aromatic Hydrocarbons in the Respiratory Tract of the Beagle Dog. <i>Toxicology and Applied Pharmacology</i> , 1993, 121, 313-318.	2.8	31
31	Carcinogenic Responses of Transgenic Heterozygous p53 Knockout Mice to Inhaled ²³⁹ PuO ₂ or Metallic Beryllium. <i>Toxicologic Pathology</i> , 1998, 26, 484-491.	1.8	30
32	Application of In Vitro Dissolution Tests to Different Uranium Compounds and Comparison with In Vivo Data. <i>Radiation Protection Dosimetry</i> , 1998, 79, 33-37.	0.8	30
33	Chronic Granulomatous Pneumonia and Lymphocytic Responses Induced by Inhaled Beryllium Metal in A/J and C3H/HeJ Mice. <i>Toxicologic Pathology</i> , 1997, 25, 2-12.	1.8	29
34	Aerosol Concentrator Design, Construction, Calibration, and Use. <i>Aerosol Science and Technology</i> , 1983, 2, 437-442.	3.1	27
35	Characterization of Exposures to Airborne Nanoscale Particles During Friction Stir Welding of Aluminum. <i>Annals of Occupational Hygiene</i> , 2010, 54, 486-503.	1.9	27
36	CHARACTERIZATION OF PLUTONIUM AEROSOL COLLECTED DURING AN ACCIDENT. <i>Health Physics</i> , 2004, 87, 596-605.	0.5	26

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37	Clearance, translocation, and excretion of beryllium following acute inhalation of beryllium oxide by beagle dogs*1. <i>Fundamental and Applied Toxicology</i> , 1990, 15, 231-241.	1.8	25
38	A method for producing non-spherical monodisperse particles using integrated circuit fabrication techniques. <i>Journal of Aerosol Science</i> , 1990, 21, 569-575.	3.8	25
39	The effect of beryllium compound solubility on in vitro canine alveolar macrophage cytotoxicity. <i>Toxicology Letters</i> , 1988, 41, 97-105.	0.8	24
40	Influence of artificial gastric juice composition on bioaccessibility of cobalt- and tungsten-containing powders. <i>International Journal of Hygiene and Environmental Health</i> , 2010, 213, 107-115.	4.3	24
41	BIOAVAILABILITY OF BERYLLIUM OXIDE PARTICLES: AN IN VITRO STUDY IN THE MURINE J774A.1 MACROPHAGE CELL LINE MODEL. <i>Experimental Lung Research</i> , 2005, 31, 341-360.	1.2	23
42	Chronic Cigarette Smoke Exposure Increases the Pulmonary Retention and Radiation Dose of ²³⁹ Pu Inhaled as ²³⁹ PuO ₂ by F344 Rats. <i>Health Physics</i> , 1998, 75, 597-609.	0.5	23
43	In vitro activity of silicon carbide whiskers in comparison to other industrial fibers using four cell culture systems. <i>American Journal of Industrial Medicine</i> , 1992, 21, 807-823.	2.1	22
44	Effects of aerosolized feedyard dust that contains natural endotoxins on adult sheep. <i>American Journal of Veterinary Research</i> , 2002, 63, 28-35.	0.6	21
45	The Comparative Pulmonary Toxicity of Beryllium Metal and Beryllium Oxide in Cynomolgus Monkeys. <i>Immunopharmacology and Immunotoxicology</i> , 1994, 16, 627-644.	2.4	19
46	Dose-Response Relationships between Inhaled Beryllium Metal and Lung Toxicity in C3H Mice. <i>Toxicological Sciences</i> , 1998, 42, 36-48.	3.1	19
47	Collection and Characterization of Aerosols from Metal Cutting Techniques Typically Used in Decommissioning Nuclear Facilities. <i>AIHA Journal</i> , 1987, 48, 922-932.	0.4	18
48	Health risk implications of using beryllium in fusion reactors. <i>Journal of Nuclear Materials</i> , 1984, 122, 821-826.	2.7	16
49	Sequential Analysis of the Pathogenesis of Plutonium-Induced Pulmonary Neoplasms in the Rat: Morphology, Morphometry, and Cytokinetics. <i>Radiation Research</i> , 1993, 134, 29.	1.5	16
50	Release of Aerosols during Sawing and Milling of Beryllium Metal and Beryllium Alloys. <i>Journal of Occupational and Environmental Hygiene</i> , 1990, 5, 787-791.	0.4	15
51	Disposition of Polycyclic Aromatic Hydrocarbons in the Respiratory Tract of the Beagle Dog. <i>Toxicology and Applied Pharmacology</i> , 1993, 121, 319-327.	2.8	15
52	Responses of Rat Lungs to Low Lung Burdens of Inhaled Beryllium Metal. <i>Inhalation Toxicology</i> , 1994, 6, 205-224.	1.6	15
53	Application of an Informatics-Based Decision-Making Framework and Process to the Assessment of Radiation Safety in Nanotechnology. <i>Health Physics</i> , 2015, 108, 179-194.	0.5	15
54	The Nanoparticle Information Library (NIL): A Prototype for Linking and Sharing Emerging Data. <i>Journal of Occupational and Environmental Hygiene</i> , 2007, 4, D131-D134.	1.0	14

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55	AEROSOL SAMPLING SYSTEM FOR COLLECTION OF CAPSTONE DEPLETED URANIUM PARTICLES IN A HIGH-ENERGY ENVIRONMENT. <i>Health Physics</i> , 2009, 96, 221-237.	0.5	14
56	Commentary on the contributions and future role of occupational exposure science in a vision and strategy for the discipline of exposure science. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2015, 25, 381-387.	3.9	14
57	Generation and Characterization of Respirable Beryllium Oxide Aerosols for Toxicity Studies. <i>Aerosol Science and Technology</i> , 1988, 9, 83-92.	3.1	13
58	Developments in Modeling Alveolar Retention of Inhaled Insoluble Particles in Rats. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 1990, 3, S-129-S-154.	1.2	12
59	Aerodynamic behavior of fiber- and disc-like particles in a Millikan cell apparatus. <i>Journal of Aerosol Science</i> , 1993, 24, 181-195.	3.8	12
60	Sodium metatungstate as a medium for measuring particle density using isopycnic density gradient ultracentrifugation. <i>Journal of Aerosol Science</i> , 1991, 22, 215-221.	3.8	11
61	A Microspray Nozzle for Local Administration of Liquids or Suspensions to Lung Airways via Bronchoscopy. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 1993, 6, 67-72.	1.2	11
62	Effects of Aerosolized Dust in Goats on Lung Clearance of <i>Pasteurella</i> and <i>Mannheimia</i> Species. <i>Current Microbiology</i> , 2003, 46, 174-179.	2.2	11
63	Inhaled aerosol dosimetry: Some current research needs. <i>Journal of Aerosol Science</i> , 2016, 99, 1-5.	3.8	11
64	Studies of Beryllium Dispersion and Toxicology in Fusion Systems. <i>Fusion Science and Technology</i> , 1985, 8, 1184-1188.	0.6	10
65	Size-selective poorly soluble particulate reference materials for evaluation of quantitative analytical methods. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2071-2077.	3.7	10
66	Certification of Beryllium Mass Fraction in SRM 1877 Beryllium Oxide Powder Using High-Performance Inductively Coupled Plasma Optical Emission Spectrometry with Exact Matching. <i>Analytical Chemistry</i> , 2009, 81, 2208-2217.	6.5	10
67	Beryllium-induced lung disease in the dog following two exposures to BeO. <i>Environmental Research</i> , 1992, 59, 400-415.	7.5	9
68	Animal Models of Beryllium-Induced Lung Disease. <i>Environmental Health Perspectives</i> , 1996, 104, 973.	6.0	9
69	Performance Testing of Continuous Air Monitors for Alpha-Emitting Radionuclides. <i>Radiation Protection Dosimetry</i> , 1998, 79, 499-504.	0.8	9
70	Effects of aerosolized endotoxin in feedyard dust on weanling goats. <i>Small Ruminant Research</i> , 2002, 46, 133-147.	1.2	9
71	A theoretical framework for evaluating analytical digestion methods for poorly soluble particulate beryllium. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2411-2417.	3.7	9
72	Nanoinformatics workshop report: current resources, community needs and the proposal of a collaborative framework for data sharing and information integration. <i>Computational Science & Discovery</i> , 2013, 6, 014008.	1.5	9

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73	Respirable particle density measurements using isopycnic density gradient ultracentrifugation. <i>Journal of Aerosol Science</i> , 1989, 20, 29-36.	3.8	8
74	Treatment of feedyard dust containing endotoxin and its effect on weanling goats. <i>Small Ruminant Research</i> , 2002, 46, 123-132.	1.2	8
75	Bridging the gap between exposure assessment and inhalation toxicology: Some insights from the carbon nanotube experience. <i>Journal of Aerosol Science</i> , 2016, 99, 157-162.	3.8	8
76	Differences in estimates of size distribution of beryllium powder materials using phase contrast microscopy, scanning electron microscopy, and liquid suspension counter techniques. <i>Particle and Fibre Toxicology</i> , 2007, 4, 3.	6.2	7
77	On Evaluating Respiratory Tract Intake of High Specific Activity Alpha-Emitting Particles for Brief Occupational Exposure. <i>Radiation Protection Dosimetry</i> , 1997, 69, 43-50.	0.8	6
78	Dose-Response Relationships between Inhaled Beryllium Metal and Lung Toxicity in C3H Mice. <i>Toxicological Sciences</i> , 1998, 42, 36-48.	3.1	6
79	Performance Evaluation of the Sampling Head and Annular Kinetic Impactor in the Savannah River Site Alpha Continuous Air Monitor. <i>Aerosol Science and Technology</i> , 1999, 31, 24-38.	3.1	6
80	Dissolution and reactive oxygen species generation of inhaled cemented tungsten carbide particles in artificial human lung fluids. <i>Journal of Physics: Conference Series</i> , 2009, 151, 012045.	0.4	6
81	Preparation, certification and interlaboratory analysis of workplace air filters spiked with high-fired beryllium oxide. <i>Journal of Environmental Monitoring</i> , 2012, 14, 391-401.	2.1	6
82	Inhaled aerosol dosimetry: Research-related needs and recommendations. <i>Journal of Aerosol Science</i> , 2021, 155, 105755.	3.8	6
83	Experiment on Laminar Flow in a Rotating, Curved Duct of Rectangular Cross Section. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1984, 106, 38-44.	1.5	5
84	Characterisation of Enriched Uranium Dioxide Particles from a Uranium Handling Facility. <i>Radiation Protection Dosimetry</i> , 1998, 79, 57-62.	0.8	5
85	Generation of Li Combustion Aerosols for Animal Inhalation Studies. <i>Health Physics</i> , 1986, 51, 117-126.	0.5	4
86	Modular Glovebox Connector and Associated Good Practices for Control of Radioactive and Chemically Toxic Materials. <i>Health Physics</i> , 1999, 76, 66-72.	0.5	4
87	Radiation risks from plutonium recycle. <i>Environmental Science & Technology</i> , 1977, 11, 1160-1165.	10.0	3
88	Optimizing Resolution and Sampling Rate in Spinning Duct Aerosol Centrifuges. <i>AIHA Journal</i> , 1983, 44, 131-134.	0.4	3
89	Potential health risks from postulated accidents involving the Pu-238 RTG on the Ulysses solar exploration mission. <i>AIP Conference Proceedings</i> , 1991, , .	0.4	3
90	Customising the LRRRI In vivo Bioassay Facility for Measuring ²¹⁰ Pb as a Biomarker for Exposure to Radon Progeny. <i>Radiation Protection Dosimetry</i> , 2000, 89, 333-337.	0.8	3

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91	Laser Generation of Particles to Simulate Aerosols from Fusion Systems. Fusion Science and Technology, 1986, 10, 1228-1233.	0.6	2
92	Clearance, Translocation, and Excretion of Beryllium following Acute Inhalation of Beryllium Oxide by Beagle Dogs. Toxicological Sciences, 1990, 15, 231-241.	3.1	2
93	Fever and leukocytosis responses in goats to inhaled endotoxin are dose-dependent. Small Ruminant Research, 2007, 70, 140-144.	1.2	2
94	A Nanoinformatics Approach to Safety, Health, Well-Being, and Productivity. , 2018, , 83-117.		2
95	Anatomical considerations for inhaled aerosol deposition modeling: Methods, applications, challenges and opportunities. Journal of Aerosol Science, 2021, 156, 105786.	3.8	2
96	Turning Numbers into Knowledge: Sensors for Safety, Health, Well-being, and Productivity. The Synergist / American Industrial Hygiene Association, 2015, 26, 22-26.	1.0	2
97	Characterization of potential aerosols from fusion energy systems. Journal of Nuclear Materials, 1984, 122, 827-832.	2.7	1
98	Compartmental Modeling of the Long-Term Retention of Insoluble Particles Deposited in the Alveolar Region of the Lung. Toxicological Sciences, 1989, 13, 823-842.	3.1	1
99	STANDARDS FOR MEASURING AIRBORNE RADIOACTIVITY. Health Physics, 2003, 85, 236-241.	0.5	1
100	Validation of Analytical Methods and Instrumentation for Beryllium Measurement: Review and Summary of Available Guides, Procedures, and Protocols. Journal of Occupational and Environmental Hygiene, 2009, 6, 766-774.	1.0	1
101	Adaptive visual sort and summary of micrographic images of nanoparticles for forensic analysis. , 2016, 2016, .		1
102	SPECIFIC BLOOD ABSORPTION PARAMETERS FOR ²³⁹ PUO ₂ AND ²³⁸ PUO ₂ NANOPARTICLES AND IMPACTS ON BIOASSAY INTERPRETATION. Radiation Protection Dosimetry, 2016, 173, ncw039.	0.8	1
103	The Acute Toxicity of Inhaled Beryllium Metal in Rats. Toxicological Sciences, 1990, 15, 767-778.	3.1	0