

Aleksandr B Stefaniak

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,725
citations

159585

30
h-index

197818

49
g-index

83
all docs

83
docs citations

83
times ranked

2942
citing authors

#	ARTICLE	IF	CITATIONS
1	Formulation and stability of a novel artificial human sweat under conditions of storage and use. <i>Toxicology in Vitro</i> , 2010, 24, 1790-1796.	2.4	211
2	International guidelines for the <i>in vivo</i> assessment of skin properties in non-clinical settings: Part 2. transepidermal water loss and skin hydration. <i>Skin Research and Technology</i> , 2013, 19, 265-278.	1.6	177
3	Emission of particulate matter from a desktop three-dimensional (3D) printer. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2016, 79, 453-465.	2.3	115
4	Characterization of silver nanoparticles in selected consumer products and its relevance for predicting children's potential exposures. <i>International Journal of Hygiene and Environmental Health</i> , 2015, 218, 345-357.	4.3	113
5	Dissolution of materials in artificial skin surface film liquids. <i>Toxicology in Vitro</i> , 2006, 20, 1265-1283.	2.4	109
6	Nanoscale reference materials for environmental, health and safety measurements: needs, gaps and opportunities. <i>Nanotoxicology</i> , 2013, 7, 1325-1337.	3.0	98
7	Characterization of phagolysosomal simulant fluid for study of beryllium aerosol particle dissolution. <i>Toxicology in Vitro</i> , 2005, 19, 123-134.	2.4	91
8	Characterization of chemical contaminants generated by a desktop fused deposition modeling 3-dimensional Printer. <i>Journal of Occupational and Environmental Hygiene</i> , 2017, 14, 540-550.	1.0	87
9	Inhalation exposure to three-dimensional printer emissions stimulates acute hypertension and microvascular dysfunction. <i>Toxicology and Applied Pharmacology</i> , 2017, 335, 1-5.	2.8	61
10	A Reconsideration of Acute Beryllium Disease. <i>Environmental Health Perspectives</i> , 2009, 117, 1250-1256.	6.0	56
11	Acrylonitrile butadiene styrene (ABS) and polycarbonate (PC) filaments three-dimensional (3-D) printer emissions-induced cell toxicity. <i>Toxicology Letters</i> , 2019, 317, 1-12.	0.8	56
12	Dermal exposure potential from textiles that contain silver nanoparticles. <i>International Journal of Occupational and Environmental Health</i> , 2014, 20, 220-234.	1.2	55
13	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
14	Potential occupational hazards of additive manufacturing. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 321-328.	1.0	54
15	Lung biodegradability and free radical production of cellulose nanomaterials. <i>Inhalation Toxicology</i> , 2014, 26, 733-749.	1.6	52
16	Beryllium exposure: dermal and immunological considerations. <i>International Archives of Occupational and Environmental Health</i> , 2006, 79, 161-164.	2.3	51
17	International guidelines for the <i>in vivo</i> assessment of skin properties in non-clinical settings: part 1. pH. <i>Skin Research and Technology</i> , 2013, 19, 59-68.	1.6	50
18	Evaluation of emissions and exposures at workplaces using desktop 3-dimensional printers. <i>Journal of Chemical Health and Safety</i> , 2019, 26, 19-30.	2.1	45

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19	<i>In Vivo</i> Toxicity Assessment of Occupational Components of the Carbon Nanotube Life Cycle To Provide Context to Potential Health Effects. <i>ACS Nano</i> , 2017, 11, 8849-8863.	14.6	44
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	Respirable indium exposures, plasma indium, and respiratory health among indium-tin oxide (ITO) workers. <i>American Journal of Industrial Medicine</i> , 2016, 59, 522-531.	2.1	43
23	Toxicology of flavoring- and cannabis-containing e-liquids used in electronic delivery systems. , 2021, 224, 107838.		43
24	Formulation and stability of a novel artificial sebum under conditions of storage and use. <i>International Journal of Cosmetic Science</i> , 2010, 32, 347-355.	2.6	40
25	Three-dimensional printing with nano-enabled filaments releases polymer particles containing carbon nanotubes into air. <i>Indoor Air</i> , 2018, 28, 840-851.	4.3	40
26	Exposures during industrial 3-D printing and post-processing tasks. <i>Rapid Prototyping Journal</i> , 2018, 24, 865-871.	3.2	39
27	Real-world precision, bias, and between-laboratory variation for surface area measurement of a titanium dioxide nanomaterial in powder form. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1742.	1.9	37
28	Insights Into Emissions and Exposures From Use of Industrial-Scale Additive Manufacturing Machines. <i>Safety and Health at Work</i> , 2019, 10, 229-236.	0.6	37
29	Characterization of exposures among cemented tungsten carbide workers. Part I: Size-fractionated exposures to airborne cobalt and tungsten particles. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2009, 19, 475-491.	3.9	36
30	Exposure to volatile organic compounds in healthcare settings. <i>Occupational and Environmental Medicine</i> , 2014, 71, 642-650.	2.8	36
31	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
32	Particle and vapor emissions from vat polymerization desktop-scale 3-dimensional printers. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 519-531.	1.0	32
33	Pulmonary and systemic toxicity in rats following inhalation exposure of 3-D printer emissions from acrylonitrile butadiene styrene (ABS) filament. <i>Inhalation Toxicology</i> , 2020, 32, 403-418.	1.6	31
34	Characterization of exposures among cemented tungsten carbide workers. Part II: Assessment of surface contamination and skin exposures to cobalt, chromium and nickel. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2009, 19, 423-434.	3.9	30
35	Cytotoxicity and Characterization of Particles Collected From an Indium-Tin Oxide Production Facility. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2014, 77, 1193-1209.	2.3	30
36	Trace-level beryllium analysis in the laboratory and in the field: state of the art, challenges and opportunities. <i>Journal of Environmental Monitoring</i> , 2006, 8, 605.	2.1	25

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37	Taking stock of the occupational safety and health challenges of nanotechnology: 2000–2015. <i>Journal of Nanoparticle Research</i> , 2016, 18, 159.	1.9	25
38	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
39	Characterization of silver particles in the stratum corneum of healthy subjects and atopic dermatitis patients dermally exposed to a silver-containing garment. <i>Nanotoxicology</i> , 2016, 10, 1480-1491.	3.0	24
40	Measurement of Skin Surface pH. <i>Current Problems in Dermatology</i> , 2018, 54, 19-25.	0.7	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	Dissolution of the metal sensitizers Ni, Be, Cr in artificial sweat to improve estimates of dermal bioaccessibility. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 341.	3.5	23
43	Additive Manufacturing for Occupational Hygiene: A Comprehensive Review of Processes, Emissions, & Exposures. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2021, 24, 173-222.	6.5	23
44	Particle and organic vapor emissions from children's 3-D pen and 3-D printer toys. <i>Inhalation Toxicology</i> , 2019, 31, 432-445.	1.6	21
45	Towards sustainable additive manufacturing: The need for awareness of particle and vapor releases during polymer recycling, making filament, and fused filament fabrication 3-D printing. <i>Resources, Conservation and Recycling</i> , 2022, 176, 105911.	10.8	20
46	Characteristics of Dusts Encountered during the Production of Cemented Tungsten Carbides. <i>Industrial Health</i> , 2007, 45, 793-803.	1.0	20
47	Persistence of tungsten oxide particle/fiber mixtures in artificial human lung fluids. <i>Particle and Fibre Toxicology</i> , 2010, 7, 38.	6.2	19
48	Physicochemical Characteristics of Aerosol Particles Generated During the Milling of Beryllium Silicate Ores: Implications for Risk Assessment. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2008, 71, 1468-1481.	2.3	17
49	Comparison of Free Radical Generation by Pre- and Post-Sintered Cemented Carbide Particles. <i>Journal of Occupational and Environmental Hygiene</i> , 2009, 7, 23-34.	1.0	15
50	Comparative dissolution of electrospun Al ₂ O ₃ nanofibres in artificial human lung fluids. <i>Environmental Science: Nano</i> , 2015, 2, 251-261.	4.3	15
51	Characteristics of Beryllium Exposure to Small Particles at a Beryllium Production Facility. <i>Annals of Occupational Hygiene</i> , 2010, 55, 70-85.	1.9	14
52	Release of Beryllium from Beryllium-Containing Materials in Artificial Skin Surface Film Liquids. <i>Annals of Occupational Hygiene</i> , 2010, 55, 57-69.	1.9	14
53	Measuring surface area of airborne titanium dioxide powder agglomerates: relationships between gas adsorption, diffusion and mobility-based methods. <i>Journal of Nanoparticle Research</i> , 2011, 13, 7029-7039.	1.9	14
54	Dissolution of beryllium in artificial lung alveolar macrophage phagolysosomal fluid. <i>Chemosphere</i> , 2011, 83, 1181-1187.	8.2	13

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55	Influence of E-Liquid Humectants, Nicotine, and Flavorings on Aerosol Particle Size Distribution and Implications for Modeling Respiratory Deposition. <i>Frontiers in Public Health</i> , 2022, 10, 782068.	2.7	13
56	Dissolution of cemented carbide powders in artificial sweat: implications for cobalt sensitization and contact dermatitis. <i>Journal of Environmental Monitoring</i> , 2010, 12, 1815.	2.1	11
57	Modeled Respiratory Tract Deposition of Aerosolized Oil Diluents Used in δ^9 -THC-Based Electronic Cigarette Liquid Products. <i>Frontiers in Public Health</i> , 2021, 9, 744166.	2.7	11
58	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
59	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
60	Effect of Puffing Behavior on Particle Size Distributions and Respiratory Depositions From Pod-Style Electronic Cigarette, or Vaping, Products. <i>Frontiers in Public Health</i> , 2021, 9, 750402.	2.7	10
61	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
62	Measurement of airborne nanoparticle surface area using a filter-based gas adsorption method for inhalation toxicology experiments. <i>Nanotoxicology</i> , 2011, 5, 687-699.	3.0	9
63	Use of 3-Dimensional Printers in Educational Settings: The Need for Awareness of the Effects of Printer Temperature and Filament Type on Contaminant Releases. <i>Journal of Chemical Health and Safety</i> , 2021, 28, 444-456.	2.1	9
64	Application of the ICRP respiratory tract model to estimate pulmonary retention of industrially sampled indium-containing dusts. <i>Inhalation Toxicology</i> , 2017, 29, 169-178.	1.6	8
65	Large-Format Additive Manufacturing and Machining Using High-Melt-Temperature Polymers. Part II: Characterization of Particles and Gases. <i>Journal of Chemical Health and Safety</i> , 2021, 28, 268-278.	2.1	8
66	Large-Format Additive Manufacturing and Machining Using High-Melt-Temperature Polymers. Part I: Real-Time Particulate and Gas-Phase Emissions. <i>Journal of Chemical Health and Safety</i> , 2021, 28, 190-200.	2.1	8
67	Evaluation of Pulmonary Effects of 3-D Printer Emissions From Acrylonitrile Butadiene Styrene Using an Air-Liquid Interface Model of Primary Normal Human-Derived Bronchial Epithelial Cells. <i>International Journal of Toxicology</i> , 2022, 41, 312-328.	1.2	8
68	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
69	Associations of Metrics of Peak Inhalation Exposure and Skin Exposure Indices With Beryllium Sensitization at a Beryllium Manufacturing Facility. <i>Annals of Work Exposures and Health</i> , 2019, 63, 856-869.	1.4	7
70	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
71	Release of Beryllium Into Artificial Airway Epithelial Lining Fluid. <i>Archives of Environmental and Occupational Health</i> , 2012, 67, 219-228.	1.4	6
72	Release of beryllium from mineral ores in artificial lung and skin surface fluids. <i>Environmental Geochemistry and Health</i> , 2012, 34, 313-322.	3.4	5

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73	Migration of Beryllium via Multiple Exposure Pathways among Work Processes in Four Different Facilities. <i>Journal of Occupational and Environmental Hygiene</i> , 2014, 11, 781-792.	1.0	5
74	Comparison of product safety data sheet ingredient lists with skin irritants and sensitizers present in a convenience sample of light-curing resins used in additive manufacturing. <i>Regulatory Toxicology and Pharmacology</i> , 2022, 133, 105198.	2.7	4
75	Biometrology Guidelines for the In Vivo Assessment of Transepidermal Water Loss and Skin Hydration in Nonclinical Settings. , 2017, , 933-943.		3
76	Chemical Emissions From Heated Vitamin E Acetate—Insights to Respiratory Risks From Electronic Cigarette Liquid Oil Diluents Used in the Aerosolization of Δ^9 -THC-Containing Products. <i>Frontiers in Public Health</i> , 2021, 9, 765168.	2.7	3
77	Comment on Strupp Papers on Beryllium Metal Toxicity. <i>Annals of Occupational Hygiene</i> , 2011, 55, 556-7; author reply 558-9.	1.9	2
78	Identification of effective control technologies for additive manufacturing. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2022, 25, 211-249.	6.5	2
79	Tungsten oxide fiber dissolution and persistence in artificial human lung fluids. <i>Journal of Physics: Conference Series</i> , 2009, 151, 012013.	0.4	1
80	Biometrology Guidelines for the In Vivo Assessment of Skin Surface pH in Nonclinical Settings. , 2017, , 925-932.		1
81	Particle transfer and adherence to human skin compared with cotton glove and pre-moistened polyvinyl alcohol exposure sampling substrates. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021, 56, 585-598.	1.7	0
82	Biometrology Guidelines for the In Vivo Assessment of Transepidermal Water Loss and Skin Hydration in Nonclinical Settings. , 2015, , 1-11.		0