Gediminas Mainelis

List of Publications by Year
in descending order

120	3,567	109321 35	168389 53
papers	citations	h-index	g-index

122	122	122	3509
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inhibition of lung tumor growth by complex pulmonary delivery of drugs with oligonucleotides as suppressors of cellular resistance. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10737-10742.	7.1	162
2	Collection of Airborne Microorganisms by Electrostatic Precipitation. Aerosol Science and Technology, 1999, 30, 127-144.	3.1	118
3	Evaluation of ionic air purifiers for reducing aerosol exposure in confined indoor spaces. Indoor Air, 2005, 15, 235-245.	4.3	103
4	Systematic characterization and fluorescence threshold strategies for the wideband integrated bioaerosol sensor (WIBS) using size-resolved biological and interfering particles. Atmospheric Measurement Techniques, 2017, 10, 4279-4302.	3.1	98
5	Bioaerosol sampling: Classical approaches, advances, and perspectives. Aerosol Science and Technology, 2020, 54, 496-519.	3.1	96
6	Electrical charges on airborne microorganisms. Journal of Aerosol Science, 2001, 32, 1087-1110.	3.8	93
7	Collection of airborne microorganisms by a new electrostatic precipitator. Journal of Aerosol Science, 2002, 33, 1417-1432.	3.8	92
8	Inhalation treatment of lung cancer: the influence of composition, size and shape of nanocarriers on their lung accumulation and retention. Cancer Biology and Medicine, 2014, 11, 44-55.	3.0	88
9	Development and calibration of real-time PCR for quantification of airborne microorganisms in air samples. Atmospheric Environment, 2006, 40, 7924-7939.	4.1	76
10	Design and Collection Efficiency of a New Electrostatic Precipitator for Bioaerosol Collection. Aerosol Science and Technology, 2002, 36, 1073-1085.	3.1	71
11	Comparison of real-time instruments and gravimetric method when measuring particulate matter in a residential building. Journal of the Air and Waste Management Association, 2016, 66, 1109-1120.	1.9	71
12	Inactivation of Foodborne Microorganisms Using Engineered Water Nanostructures (EWNS). Environmental Science & Technology, 2015, 49, 3737-3745.	10.0	70
13	Potential for exposure to engineered nanoparticles from nanotechnology-based consumer spray products. Journal of Exposure Science and Environmental Epidemiology, 2011, 21, 515-528.	3.9	69
14	Effect of electrical charges and fields on injury and viability of airborne bacteria. Biotechnology and Bioengineering, 2002, 79, 229-241.	3.3	68
15	Release of Free DNA by Membrane-Impaired Bacterial Aerosols Due to Aerosolization and Air Sampling. Applied and Environmental Microbiology, 2013, 79, 7780-7789.	3.1	67
16	Design and development of an electrostatic sampler for bioaerosols with high concentration rate. Journal of Aerosol Science, 2008, 39, 1066-1078.	3.8	63
17	Impacts of a Nanosized Ceria Additive on Diesel Engine Emissions of Particulate and Gaseous Pollutants. Environmental Science & Technology, 2013, 47, 13077-13085.	10.0	63
18	Effect of physical and biological parameters on enumeration of bioaerosols by portable microbial impactors. Journal of Aerosol Science, 2006, 37, 1467-1483.	3.8	62

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19	Inactivation of Microorganisms Using Electrostatic Fields. Environmental Science & Technology, 2005, 39, 3338-3344.	10.0	61
20	Investigation of Cut-Off Sizes and Collection Efficiencies of Portable Microbial Samplers. Aerosol Science and Technology, 2006, 40, 595-606.	3.1	60
21	Characterization and Application of a Nose-Only Exposure Chamber for Inhalation Delivery of Liposomal Drugs and Nucleic Acids to Mice. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2013, 26, 345-354.	1.4	59
22	Analysis of Portable Impactor Performance for Enumeration of Viable Bioaerosols. Journal of Occupational and Environmental Hygiene, 2007, 4, 514-524.	1.0	53
23	Hydroxyl Radicals in E-Cigarette Vapor and E-Vapor Oxidative Potentials under Different Vaping Patterns. Chemical Research in Toxicology, 2019, 32, 1087-1095.	3.3	53
24	Evaluation of a high-volume portable bioaerosol sampler in laboratory and field environments. Indoor Air, 2004, 14, 385-393.	4.3	51
25	Potential for Inhalation Exposure to Engineered Nanoparticles from Nanotechnology-Based Cosmetic Powders. Environmental Health Perspectives, 2012, 120, 885-892.	6.0	51
26	A systematic comparison of four bioaerosol generators: Affect on culturability and cell membrane integrity when aerosolizing Escherichia coli bacteria. Journal of Aerosol Science, 2014, 70, 67-79.	3.8	51
27	Design and performance of a single-pass bubbling bioaerosol generator. Atmospheric Environment, 2005, 39, 3521-3533.	4.1	49
28	Assessment of Electrical Charge on Airborne Microorganisms by a New Bioaerosol Sampling Method. Journal of Occupational and Environmental Hygiene, 2004, 1, 127-138.	1.0	46
29	Performance of an Electrostatic Precipitator with Superhydrophobic Surface when Collecting Airborne Bacteria. Aerosol Science and Technology, 2010, 44, 339-348.	3.1	46
30	Aerosolization of Particles from a Bubbling Liquid: Characteristics and Generator Development. Aerosol Science and Technology, 1997, 26, 175-190.	3.1	44
31	Induction Charging and Electrostatic Classification of Micrometer-Size Particles for Investigating the Electrobiological Properties of Airborne Microorganisms. Aerosol Science and Technology, 2002, 36, 479-491.	3.1	44
32	Utilization of natural electrical charges on airborne microorganisms for their collection by electrostatic means. Journal of Aerosol Science, 2006, 37, 513-527.	3.8	44
33	Application of ATP bioluminescence method to characterize performance of bioaerosol sampling devices. Journal of Aerosol Science, 2009, 40, 113-121.	3.8	43
34	Reductive dechlorination of 1,2,3,7,8-pentachlorodibenzo-p-dioxin and Aroclor 1260, 1254 and 1242 by a mixed culture containing Dehalococcoides mccartyi strain 195. Water Research, 2014, 52, 51-62.	11.3	43
35	Investigation of inherent and latent internal losses in liquid-based bioaerosol samplers. Journal of Aerosol Science, 2012, 45, 58-68.	3.8	39
36	Substrate-Dependent rRNA Production in an Airborne Bacterium. Environmental Science and Technology Letters, 2014, 1, 376-381.	8.7	36

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37	Collection of airborne spores by circular single-stage impactors with small jet-to-plate distance. Journal of Aerosol Science, 2005, 36, 575-591.	3.8	35
38	Nanomaterial inhalation exposure from nanotechnology-based cosmetic powders: a quantitative assessment. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	35
39	Collection efficiencies of an electrostatic sampler with superhydrophobic surface for fungal bioaerosols. Indoor Air, 2011, 21, 110-120.	4.3	34
40	Release of Streptomyces albus propagules from contaminated surfaces. Environmental Research, 2003, 91, 45-53.	7.5	33
41	Modeling population exposures to silver nanoparticles present in consumer products. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	33
42	Indoor air quality in green buildings: A case-study in a residential high-rise building in the northeastern United States. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 225-242.	1.7	31
43	Use of portable microbial samplers for estimating inhalation exposure to viable biological agents. Journal of Exposure Science and Environmental Epidemiology, 2007, 17, 31-38.	3.9	30
44	Pulmonary effects of inhaled diesel exhaust in aged mice. Toxicology and Applied Pharmacology, 2009, 241, 283-293.	2.8	29
45	Evaluation of E-Vapor Nicotine and Nicotyrine Concentrations under Various E-Liquid Compositions, Device Settings, and Vaping Topographies. Chemical Research in Toxicology, 2018, 31, 861-868.	3.3	29
46	The Effect of Sampling Time on the Overall Performance of Portable Microbial Impactors. Aerosol Science and Technology, 2010, 44, 75-82.	3.1	28
47	Quantitative assessment of inhalation exposure and deposited dose of aerosol from nanotechnology-based consumer sprays. Environmental Science: Nano, 2014, 1, 161.	4.3	28
48	Investigating E-Cigarette Particle Emissions and Human Airway Depositions under Various E-Cigarette-Use Conditions. Chemical Research in Toxicology, 2020, 33, 343-352.	3.3	28
49	Sensing the invisible: Understanding the perception of indoor air quality among children in low-income families. International Journal of Child-Computer Interaction, 2019, 19, 79-88.	3.5	26
50	Effect of an Ionic Air Cleaner on Indoor/Outdoor Particle Ratios in a Residential Environment. Aerosol Science and Technology, 2007, 41, 315-328.	3.1	24
51	Airborne Particulate Matter in Two Multi-Family Green Buildings: Concentrations and Effect of Ventilation and Occupant Behavior. International Journal of Environmental Research and Public Health, 2016, 13, 144.	2.6	24
52	Application of ATP-based bioluminescence for bioaerosol quantification: Effect of sampling method. Journal of Aerosol Science, 2015, 90, 114-123.	3.8	23
53	Summertime thermal conditions and senior resident behaviors in public housing: A case study in Elizabeth, NJ, USA. Building and Environment, 2020, 168, 106411.	6.9	23
54	A comparison of airborne and dust-borne allergens and toxins collected from home, office and outdoor environments both in New Haven, United States and Nanjing, China. Aerobiologia, 2009, 25, 183-192.	1.7	21

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55	Development and In-Home Testing of the Pretoddler Inhalable Particulate Environmental Robotic (PIPER Mk IV) Sampler. Environmental Science & Technology, 2011, 45, 2945-2950.	10.0	21
56	Release of airborne particles and Ag and Zn compounds from nanotechnology-enabled consumer sprays: Implications for inhalation exposure. Atmospheric Environment, 2017, 155, 85-96.	4.1	21
57	Design and development of a self-contained personal electrostatic bioaerosol sampler (PEBS) with a wire-to-wire charger. Aerosol Science and Technology, 2017, 51, 903-915.	3.1	21
58	Portable air cleaners and residential exposure to SARSâ€CoVâ€2 aerosols: A realâ€world study. Indoor Air, 2022, 32, e13029.	4.3	21
59	Investigation of indoor air quality determinants in a field study using three different data streams. Building and Environment, 2019, 154, 281-295.	6.9	20
60	Passive bioaerosol samplers: A complementary tool for bioaerosol research. A review. Journal of Aerosol Science, 2022, 163, 105992.	3.8	20
61	Comparison of different modeling approaches in current lung dosimetry models. Environment International, 1996, 22, 965-976.	10.0	19
62	Field performance of a novel passive bioaerosol sampler using polarized ferroelectric polymer films. Aerosol Science and Technology, 2017, 51, 787-800.	3.1	19
63	Design and Evaluation of the Field-Deployable Electrostatic Precipitator with Superhydrophobic Surface (FDEPSS) with High Concentration Rate. Aerosol and Air Quality Research, 2015, 15, 2397-2408.	2.1	19
64	Analysis of airborne microbial communities using 16S ribosomal RNA: Potential bias due to air sampling stress. Science of the Total Environment, 2018, 621, 939-947.	8.0	18
65	Collection of airborne microorganisms: Advantages and disadvantages of different methods. Journal of Aerosol Science, 1996, 27, S247-S248.	3.8	17
66	Use of a robotic sampling platform to assess young childrenâ€™s exposure to indoor bioaerosols. Indoor Air, 2012, 22, 159-169.	4.3	17
67	EFFECT OF WEARABLE IONIZERS ON THE CONCENTRATION OF RESPIRABLE AIRBORNE PARTICLES AND MICROORGANISMS. Journal of Aerosol Science, 2001, 32, 335-336.	3.8	17
68	Particle Settling After Lead-Based Paint Abatement Work and Clearance Waiting Period. AIHAJ: A Journal for the Science of Occupational and Environmental Health and Safety, 2000, 61, 798-807.	0.4	16
69	Microbial Air Contamination in Farmhouses â€“ Quantitative Aspects. Clean - Soil, Air, Water, 2008, 36, 551-555.	1.1	16
70	Nanotechnology and Exposure Science What Is Needed To Fill the Research and Data Gaps for Consumer Products. International Journal of Occupational and Environmental Health, 2010, 16, 378-387.	1.2	16
71	Performance of Four Consumer-grade Air Pollution Measurement Devices in Different Residences. Aerosol and Air Quality Research, 2020, 20, 217-230.	2.1	16
72	Design and development of a passive bioaerosol sampler using polarized ferroelectric polymer film. Journal of Aerosol Science, 2017, 105, 128-144.	3.8	15

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73	Evaluation of particle resuspension in young children×³s breathing zone using stationary and robotic (PIPER) aerosol samplers. Journal of Aerosol Science, 2015, 85, 30-41.	3.8	14
74	Performance of personal electrostatic bioaerosol sampler (PEBS) when collecting airborne microorganisms. Journal of Aerosol Science, 2018, 124, 54-67.	3.8	13
75	Residential indoor air quality interventions through a socialâ€ecological systems lens: A systematic review. Indoor Air, 2021, 31, 958-976.	4.3	13
76	Improved exposure characterization with robotic (PIPER) sampling and association with childrenâ€™s respiratory symptoms, asthma and eczema. Journal of Exposure Science and Environmental Epidemiology, 2014, 24, 421-427.	3.9	12
77	Pyrethroid levels in toddlersâ€™ breathing zone following a simulated indoor pesticide spray. Journal of Exposure Science and Environmental Epidemiology, 2019, 29, 389-396.	3.9	12
78	Presence and variability of culturable bioaerosols in three multiâ€family apartment buildings with different ventilation systems in the Northeastern US. Indoor Air, 2021, 31, 502-523.	4.3	12
79	Nanotechnology and Exposure Science What Is Needed To Fill the Research and Data Gaps for Consumer Products. International Journal of Occupational and Environmental Health, 2010, 16, 378-387.	1.2	12
80	Variability in Bioreactivity Linked to Changes in Size and Zeta Potential of Diesel Exhaust Particles in Human Immune Cells. PLoS ONE, 2014, 9, e97304.	2.5	12
81	Sampling for Airborne Microorganisms. , 0, , 3.2.2-1-3.2.2-17.		11
82	Effects of a nanoceria fuel additive on the physicochemical properties of diesel exhaust particles. Environmental Sciences: Processes and Impacts, 2016, 18, 1333-1342.	3.5	11
83	Particle Settling After Lead-Based Paint Abatement Work and Clearance Waiting Period. AIHA Journal, 2000, 61, 798-807.	0.4	11
84	Performance of a compact air-to-liquid aerosol collector with high concentration rate. Journal of Aerosol Science, 2006, 37, 645-657.	3.8	10
85	Particle Emission Characteristics of Filter-Equipped Vacuum Cleaners. AIHA Journal, 2001, 62, 482-493.	0.4	10
86	Retention of Inactivated Bioaerosols and Ethene in a Rotating Bioreactor Constructed for Bioaerosol Activity Studies. Clean - Soil, Air, Water, 2008, 36, 593-600.	1.1	9
87	Effect of Agar Plate Volume on Accuracy of Culturable Bioaerosol Impactors. Aerosol Science and Technology, 2013, 47, 1353-1362.	3.1	9
88	Development and Optimization of the Electrostatic Precipitator with Superhydrophobic Surface (EPSS) Mark II for Collection of Bioaerosols. Aerosol Science and Technology, 2015, 49, 210-219.	3.1	9
89	Designing to engage children in monitoring indoor air quality. , 2020, , .		9
90	Improving Estimation of Indoor Exposure to Inhalable Particles for Children in the First Year of Life. Journal of the Air and Waste Management Association, 2007, 57, 934-939.	1.9	8

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91	Evaluation of two low-cost PM monitors under different laboratory and indoor conditions. Aerosol Science and Technology, 2021, 55, 316-331.	3.1	8
92	Particle Emission Characteristics of Filter-Equipped Vacuum Cleaners. AIHAJ: A Journal for the Science of Occupational and Environmental Health and Safety, 2001, 62, 482-493.	0.4	7
93	Performance Characteristics of the Aerosol Collectors of the Autonomous Pathogen Detection System (APDS). Aerosol Science and Technology, 2005, 39, 461-471.	3.1	7
94	Use of a Robotic Sampler (PIPER) for Evaluation of Particulate Matter Exposure and Eczema in Preschoolers. International Journal of Environmental Research and Public Health, 2016, 13, 242.	2.6	7
95	Comparison of particulate matter exposure estimates in young children from personal sampling equipment and a robotic sampler. Journal of Exposure Science and Environmental Epidemiology, 2017, 27, 299-305.	3.9	7
96	Design and validation of a passive deposition sampler. Journal of Environmental Monitoring, 2012, 14, 2411.	2.1	6
97	Characterization of an aerosol generation system to assess inhalation risks of aerosolized nano-enabled consumer products. Inhalation Toxicology, 2019, 31, 357-367.	1.6	6
98	Office Indoor PM and BC Level in Lithuania: The Role of a Long-Range Smoke Transport Event. Atmosphere, 2021, 12, 1047.	2.3	6
99	Rapid counting of liquid-borne microorganisms by light scattering spectrometry. Annals of Agricultural and Environmental Medicine, 2005, 12, 141-8.	1.0	6
100	Development of a dual-internal-reference technique to improve accuracy when determining bacterial 16S rRNA:16S rRNA gene ratio with application to Escherichia coli liquid and aerosol samples. Journal of Microbiological Methods, 2015, 117, 113-121.	1.6	5
101	Estimating Lung Deposition of Fungal Spores Using Actual Airborne Spore Concentrations and Physiological Data. Environmental Science & Technology, 2021, 55, 1852-1863.	10.0	5
102	Design and Development of a Novel Nanofiber Nasal Filter (NNF) to Improve Respiratory Health. Aerosol and Air Quality Research, 2018, 18, 2064-2076.	2.1	5
103	Presence of SARS-CoV-2 Aerosol in Residences of Adults with COVID-19. Annals of the American Thoracic Society, 2022, 19, 338-341.	3.2	5
104	Development and optimization of Stationary Electrostatic Bioaerosol Sampler (SEBS) for viable and culturable airborne microorganisms. Journal of Aerosol Science, 2022, 162, 105951.	3.8	5
105	Investigation of Sources, Diversity, and Variability of Bacterial Aerosols in Athens, Greece: A Pilot Study. Atmosphere, 2022, 13, 45.	2.3	5
106	Atmospheric Biodetection Part I: Study of Airborne Bacterial Concentrations from January 2018 to May 2020 at Saclay, France. International Journal of Environmental Research and Public Health, 2020, 17, 6292.	2.6	4
107	32 O 04 A comparative study of submicron particle deposition in human lungs. Journal of Aerosol Science, 1993, 24, S359-S360.	3.8	3
108	Characterization of airborne particle release from nanotechnology-enabled clothing products. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	3

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109	Performance of Two Different Techniques to Concentrate Samples for Bioaerosol Quantification. Atmosphere, 2020, 11, 504.	2.3	3
110	Potential consumer exposure to respirable particles and TiO2 due to the use of eyebrow powders. Journal of Exposure Science and Environmental Epidemiology, 2021, 31, 1032-1046.	3.9	3
111	Comparison of Two Models to Estimate Deposition of Fungi and Bacteria in the Human Respiratory Tract. Atmosphere, 2020, 11, 561.	2.3	3
112	Inactivation of pure bacterial biofilms by impaction of aerosolized consumer products containing nanoparticulate metals. Environmental Science: Nano, 2018, 5, 544-555.	4.3	2
113	Measurement of electrical charges on airborne microorganisms. Journal of Aerosol Science, 2000, 31, 957-958.	3.8	1
114	Increased Prevalence Of Wheeze Associated With Elevated Levels Of Particulate Matter(PM) Measured By A Child Surrogate Robot(PIPER). , 2011, , .		1
115	Design and development of an Electrostatic Screen Battery for Emission Control (ESBEC). Journal of Aerosol Science, 2017, 107, 74-83.	3.8	1
116	Impact of sampling and storage stress on the recovery of airborne SARS-CoV-2 virus surrogate captured by filtration. Journal of Occupational and Environmental Hygiene, 2021, 18, 461-475.	1.0	1
117	14.P.22 Hydration properties of atmospheric aerosol. Journal of Aerosol Science, 1994, 25, 151-152.	3.8	0
118	Investigation of electrobiological properties of airborne microorganisms. Journal of Aerosol Science, 1999, 30, S807-S808.	3.8	0
119	Evaluation of Electrostatic Screen Battery for Emissions Control (ESBEC) with Diesel Emissions. SAE International Journal of Engines, 0, 9, 2312-2319.	0.4	0
120	The Effects of Bedding Type in Stalls and Activity of Horses on Stall Air Quality. Journal of Equine Veterinary Science, 2018, 67, 91-98.	0.9	0