Joshua L Santarpia

List of Publications by Year
in descending order

50	1,268	471509 17	395702 33
papers	citations	h-index	g-index

53	53	53	1942
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aerosol and surface contamination of SARS-CoV-2 observed in quarantine and isolation care. Scientific Reports, 2020, 10, 12732.	3.3	448
2	The size and culturability of patient-generated SARS-CoV-2 aerosol. Journal of Exposure Science and Environmental Epidemiology, 2022, 32, 706-711.	3.9	87
3	Direct measurement of the hydration state of ambient aerosol populations. Journal of Geophysical Research, 2004, 109, .	3.3	45
4	Fluorescence of bioaerosols: mathematical model including primary fluorescing and absorbing molecules in bacteria. Optics Express, 2013, 21, 22285.	3.4	44
5	Assessment of a Program for SARS-CoV-2 Screening and Environmental Monitoring in an Urban Public School District. JAMA Network Open, 2021, 4, e2126447.	5.9	44
6	Trapping of individual airborne absorbing particles using a counterflow nozzle and photophoretic trap for continuous sampling and analysis. Applied Physics Letters, 2014, 104, .	3.3	36
7	Size-dependent fluorescence of bioaerosols: Mathematical model using fluorescing and absorbing molecules in bacteria. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 157, 54-70.	2.3	31
8	Changes in fluorescence spectra of bioaerosols exposed to ozone in a laboratory reaction chamber to simulate atmospheric aging. Optics Express, 2012, 20, 29867.	3.4	30
9	Organics in the Northeastern Pacific and their impacts on aerosol hygroscopicity in the subsaturated and supersaturated regimes. Atmospheric Chemistry and Physics, 2006, 6, 4101-4115.	4.9	29
10	Detection and characterization of chemical aerosol using laser-trapping single-particle Raman spectroscopy. Applied Optics, 2017, 56, 6577.	1.8	28
11	Effects of ozone and relative humidity on fluorescence spectra of octapeptide bioaerosol particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 538-550.	2.3	26
12	Spectrally-resolved fluorescence cross sections of aerosolized biological live agents and simulants using five excitation wavelengths in a BSL-3 laboratory. Optics Express, 2014, 22, 8165.	3.4	25
13	Review of Literature for Air Medical Evacuation High-Level Containment Transport. Air Medical Journal, 2019, 38, 359-365.	0.6	24
14	Ultra-absorptive Nanofiber Swabs for Improved Collection and Test Sensitivity of SARS-CoV-2 and other Biological Specimens. Nano Letters, 2021, 21, 1508-1516.	9.1	24
15	Elastic back-scattering patterns via particle surface roughness and orientation from single trapped airborne aerosol particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 224-231.	2.3	23
16	Atmospheric aging processes of bioaerosols under laboratory-controlled conditions: A review. Journal of Aerosol Science, 2021, 155, 105767.	3.8	21
17	Relationship Between Biologically Fluorescent Aerosol and Local Meteorological Conditions. Aerosol Science and Technology, 2013, 47, 655-661.	3.1	17
18	Raman scattering and red fluorescence in the photochemical transformation of dry tryptophan particles. Optics Express, 2016, 24, 11654.	3.4	17

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19	Laboratory study of bioaerosols: Traditional test systems, modern approaches, and environmental control. Aerosol Science and Technology, 2020, 54, 585-600.	3.1	16
20	Diurnal variations in the hygroscopic growth cycles of ambient aerosol populations. Journal of Geophysical Research, 2005, 110, .	3.3	15
21	Fluorescence spectra and biological activity of aerosolized bacillus spores and MS2 bacteriophage exposed to ozone at different relative humidities in a rotating drum. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 153, 13-28.	2.3	15
22	Measurement of back-scattering patterns from single laser trapped aerosol particles in air. Applied Optics, 2017, 56, B1.	2.1	15
23	Liquidâ€“liquid phase separation and evaporation of a laser-trapped organicâ€“organic airborne droplet using temporal spatial-resolved Raman spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 19151-19159.	2.8	15
24	Optical-trapping of particles in air using parabolic reflectors and a hollow laser beam. Optics Express, 2019, 27, 33061.	3.4	14
25	Review of elastic light scattering from single aerosol particles and application in bioaerosol detection. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 279, 108067.	2.3	14
26	Improved Method for the Evaluation of Real-Time Biological Aerosol Detection Technologies. Aerosol Science and Technology, 2011, 45, 635-644.	3.1	13
27	Position-resolved Raman spectra from a laser-trapped single airborne chemical droplet. Optics Letters, 2017, 42, 5113.	3.3	13
28	Fluorescence of bioaerosols: mathematical model including primary fluorescing and absorbing molecules in bacteria: errata. Optics Express, 2014, 22, 22817.	3.4	11
29	Need for Aeromedical Evacuation High-Level Containment Transport Guidelines. Emerging Infectious Diseases, 2019, 25, 1033-1034.	4.3	11
30	Changes of fluorescence spectra and viability from aging aerosolized E. coli cells under various laboratory-controlled conditions in an advanced rotating drum. Aerosol Science and Technology, 2019, 53, 1261-1276.	3.1	10
31	CRISPR/Cas9 as an antiviral against Orthopoxviruses using an AAV vector. Scientific Reports, 2020, 10, 19307.	3.3	10
32	Aerosol tracer testing in Boeing 767 and 777 aircraft to simulate exposure potential of infectious aerosol such as SARS-CoV-2. PLoS ONE, 2021, 16, e0246916.	2.5	10
33	Study of single airborne particle using laser-trapped submicron position-resolved temporal Raman spectroscopy. Chemical Physics Letters, 2018, 706, 255-260.	2.6	8
34	Opto-aerodynamic focusing of aerosol particles. Aerosol Science and Technology, 2018, 52, 13-18.	3.1	7
35	Longitudinal Metagenomic Analysis of the Water and Soil from Gulf of Mexico Beaches Affected by the Deep Water Horizon Oil Spill. Nature Precedings, 2011, , .	0.1	5
36	Implementation of a COVID-19 cohort area resulted in no surface or air contamination in surrounding areas in one academic emergency department. American Journal of Emergency Medicine, 2021, 47, 253-257.	1.6	5

#	Article	IF	Citations
37	Measurement of circular intensity differential scattering (CIDS) from single airborne aerosol particles for bioaerosol detection and identification. Optics Express, 2022, 30, 1442.	3.4	5
38	Nanofiber capsules for minimally invasive sampling of biological specimens from gastrointestinal tract. Acta Biomaterialia, 2022, 146, 211-221.	8.3	5
39	Airborne Release Fractions from Surrogate Nuclear Waste Fires Containing Lanthanide Nitrates and Depleted Uranium Nitrate in 30% Tributyl Phosphate in Kerosene. Nuclear Technology, 2021, 207, 103-118.	1.2	4
40	Fluorescence spectra of bioaerosols exposed to ozone in a laboratory reaction chamber to simulate atmospheric processing. Proceedings of SPIE, 2011, , .	0.8	3
41	Infectious Aerosol Capture Mask as Environmental Control to Reduce Spread of Respiratory Viral Particles. Viruses, 2022, 14, 1275.	3.3	2
42	Test methodology development for biological agent detection systems. , 2006, 6378, 637802.		1
43	Captive Aerosol Growth and Evolution (CAGE) chamber system to investigate particle growth due to secondary aerosol formation. Atmospheric Measurement Techniques, 2021, 14, 3351-3370.	3.1	1
44	Emerging Science, Personal Protective Equipment Guidance, and Resource Scarcity: Inaction and Inequity for Workers in Essential Industries. Health Security, 2021, 19, 564-569.	1.8	1
45	DETECTION AND CHARACTERIZATION OF CHEMICAL AND BIOLOGICAL AEROSOLS USING LASER-TRAPPING SINGLE-PARTICLE RAMAN SPECTROSCOPY. WIT Transactions on Ecology and the Environment, 2018, , .	0.0	1
46	CHAPTER 6. Bioaerosols in the Environment: Populations, Measurement and Processes. Issues in Toxicology, 0, , 219-247.	0.1	1
47	Characteristics of phylogenetic diversity in airborne bacterial populations in China. , 2011, , .		0
48	Estimates of aqueous-phase sulfate production from tandem differential mobility analysis. Atmospheric Environment, 2011, 45, 5484-5492.	4.1	0
49	Understanding water uptake in bioaerosols using laboratory measurements, field tests, and modeling. , 2013, , .		0
50	Determination of Airborne Release Fractions from Solid Surrogate Nuclear Waste Fires. Nuclear Technology, 0, , 1-17.	1.2	0