

Jason Olfert

List of Publications by Year in descending order

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92
papers

3,510
citations

172457

29
h-index

161849

54
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95
all docs

95
docs citations

95
times ranked

3019
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized instrument configurations for tandem particle mass analyzer and single particle-soot photometer experiments. <i>Journal of Aerosol Science</i> , 2022, 160, 105897.	3.8	2
2	Development and testing of a universal aerosol conditioner. <i>Aerosol Science and Technology</i> , 2022, 56, 382-393.	3.1	1
3	Viral load of SARS-CoV-2 in droplets and bioaerosols directly captured during breathing, speaking and coughing. <i>Scientific Reports</i> , 2022, 12, 3484.	3.3	28
4	An improved inversion method for determining two-dimensional mass distributions of non-refractory materials on refractory black carbon. <i>Aerosol Science and Technology</i> , 2021, 55, 104-118.	3.1	5
5	Accelerated measurements of aerosol size distributions by continuously scanning the aerodynamic aerosol classifier. <i>Aerosol Science and Technology</i> , 2021, 55, 119-141.	3.1	3
6	Generating an aerosol of homogeneous, non-spherical particles and measuring their bipolar charge distribution. <i>Journal of Aerosol Science</i> , 2021, 153, 105705.	3.8	8
7	Particle Size-Dependent Filtration Efficiency and Pressure Drop of Gasoline Particle Filters with Varying Washcoat Volumes. <i>Emission Control Science and Technology</i> , 2021, 7, 105-116.	1.5	2
8	Particulate emissions from turbulent diffusion flames with entrained droplets: A laboratory simulation of gas flaring emissions. <i>Journal of Aerosol Science</i> , 2021, 157, 105807.	3.8	7
9	Comparison of emissions from steam- and water-assisted lab-scale flames. <i>Fuel</i> , 2021, 302, 121107.	6.4	10
10	Using two-dimensional distributions to inform the mixing state of soot and salt particles produced in gas flares. <i>Journal of Aerosol Science</i> , 2021, 158, 105826.	3.8	8
11	Inversion methods to determine two-dimensional aerosol mass-mobility distributions: A critical comparison of established methods. <i>Journal of Aerosol Science</i> , 2020, 140, 105484.	3.8	21
12	New approaches to calculate the transfer function of particle mass analyzers. <i>Aerosol Science and Technology</i> , 2020, 54, 111-127.	3.1	12
13	Closure between particulate matter concentrations measured ex situ by thermal optical analysis and in situ by the CPMA electrometer reference mass system. <i>Aerosol Science and Technology</i> , 2020, 54, 1293-1309.	3.1	13
14	Comprehensive characterization of mainstream marijuana and tobacco smoke. <i>Scientific Reports</i> , 2020, 10, 7160.	3.3	51
15	Measuring the bipolar charge distribution of nanoparticles: Review of methodologies and development using the Aerodynamic Aerosol Classifier. <i>Journal of Aerosol Science</i> , 2020, 143, 105526.	3.8	20
16	Comparison of Particle Number Emissions from In-Flight Aircraft Fueled with Jet A1, JP-5 and an Alcohol-to-Jet Fuel Blend. <i>Energy & Fuels</i> , 2020, 34, 7218-7222.	5.1	11
17	Determining the cutoff diameter and counting efficiency of optical particle counters with an aerodynamic aerosol classifier and an inkjet aerosol generator. <i>Aerosol Science and Technology</i> , 2020, 54, 1335-1344.	3.1	12
18	Characterising mass-resolved mixing state of black carbon in Beijing using a morphology-independent measurement method. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3645-3661.	4.9	26

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19	Validation of MAX-DOAS retrievals of aerosol extinction, SO ₂ , and NO ₂ through comparison with lidar, sun photometer, active DOAS, and aircraft measurements in the Athabasca oil sands region. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 1129-1155.	3.1	4
20	Inversion methods to determine two-dimensional aerosol mass-mobility distributions II: Existing and novel Bayesian methods. <i>Journal of Aerosol Science</i> , 2020, 146, 105565.	3.8	10
21	Effect of sodium chloride on the evolution of size, mixing state, and light absorption of soot particles from a smoking laminar diffusion flame. <i>Combustion and Flame</i> , 2020, 218, 168-178.	5.2	8
22	Morphology and size of soot from gas flares as a function of fuel and water addition. <i>Fuel</i> , 2020, 279, 118478.	6.4	27
23	Calibration of optical particle counters with an aerodynamic aerosol classifier. <i>Journal of Aerosol Science</i> , 2019, 138, 105452.	3.8	21
24	Characterization of black carbon particles generated by a propane-fueled miniature inverted soot generator. <i>Journal of Aerosol Science</i> , 2019, 135, 46-57.	3.8	25
25	Universal relations between soot effective density and primary particle size for common combustion sources. <i>Aerosol Science and Technology</i> , 2019, 53, 485-492.	3.1	62
26	Size, effective density, morphology, and nano-structure of soot particles generated from buoyant turbulent diffusion flames. <i>Journal of Aerosol Science</i> , 2019, 132, 22-31.	3.8	38
27	Repeatability and intermediate precision of a mass concentration calibration system. <i>Aerosol Science and Technology</i> , 2019, 53, 701-711.	3.1	6
28	Properties of carbon black produced by the thermal decomposition of methane in the products of premixed flames. <i>Journal of Aerosol Science</i> , 2019, 131, 13-27.	3.8	15
29	Quantifying the carbon conversion efficiency and emission indices of a lab-scale natural gas flare with internal coflows of air or steam. <i>Experimental Thermal and Fluid Science</i> , 2019, 103, 133-142.	2.7	13
30	A novel miniature inverted-flame burner for the generation of soot nanoparticles. <i>Aerosol Science and Technology</i> , 2019, 53, 184-195.	3.1	29
31	A novel inversion method to determine the mass distribution of non-refractory coatings on refractory black carbon using a centrifugal particle mass analyzer and single particle soot photometer. <i>Aerosol Science and Technology</i> , 2018, 52, 567-578.	3.1	13
32	Measuring aerosol size distributions with the aerodynamic aerosol classifier. <i>Aerosol Science and Technology</i> , 2018, 52, 655-665.	3.1	39
33	The effect of sodium chloride on the nanoparticles observed in a laminar methane diffusion flame. <i>Combustion and Flame</i> , 2018, 188, 273-283.	5.2	15
34	Principal component analysis of summertime ground site measurements in the Athabasca oil sands with a focus on analytically unresolved intermediate-volatility organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17819-17841.	4.9	26
35	Measurement and modeling of the multiwavelength optical properties of uncoated flame-generated soot. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12141-12159.	4.9	35
36	Enhanced Evaporation of Microscale Droplets With an Infrared Laser. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.1	17

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37	Effective density and volatility of particles sampled from a helicopter gas turbine engine. <i>Aerosol Science and Technology</i> , 2017, 51, 704-714.	3.1	26
38	Morphology and volatility of particulate matter emitted from a gasoline direct injection engine fuelled on gasoline and ethanol blends. <i>Journal of Aerosol Science</i> , 2017, 105, 166-178.	3.8	26
39	Relative Humidity Dependence of Soot Aggregate Restructuring Induced by Secondary Organic Aerosol: Effects of Water on Coating Viscosity and Surface Tension. <i>Environmental Science and Technology Letters</i> , 2017, 4, 386-390.	8.7	22
40	Variation of the optical properties of soot as a function of particle mass. <i>Carbon</i> , 2017, 124, 201-211.	10.3	42
41	Relationship between Coating-Induced Soot Aggregate Restructuring and Primary Particle Number. <i>Environmental Science & Technology</i> , 2017, 51, 8376-8383.	10.0	17
42	Probe sampling to map and characterize nanoparticles along the axis of a laminar methane jet diffusion flame. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 881-888.	3.9	12
43	Effect of Thermodenuding on the Structure of Nascent Flame Soot Aggregates. <i>Atmosphere</i> , 2017, 8, 166.	2.3	14
44	Methodology for quantifying the volatile mixing state of an aerosol. <i>Aerosol Science and Technology</i> , 2016, 50, 759-772.	3.1	26
45	Modification of the TSI 3081 differential mobility analyzer to include three monodisperse outlets: Comparison between experimental and theoretical performance. <i>Aerosol Science and Technology</i> , 2016, 50, 1342-1351.	3.1	5
46	Improved sizing of soot primary particles using mass-mobility measurements. <i>Aerosol Science and Technology</i> , 2016, 50, 101-109.	3.1	22
47	AN ATOMIZER TO GENERATE MONODISPERSE DROPLETS FROM HIGH VAPOR PRESSURE LIQUIDS. <i>Atomization and Sprays</i> , 2016, 26, 121-134.	0.8	13
48	Transient measurement of the effective particle density of cigarette smoke. <i>Journal of Aerosol Science</i> , 2015, 87, 63-74.	3.8	13
49	Characterization of Particulate Matter Morphology and Volatility from a Compression-Ignition Natural-Gas Direct-Injection Engine. <i>Aerosol Science and Technology</i> , 2015, 49, 589-598.	3.1	49
50	Particle Emission Characteristics of a Gas Turbine with a Double Annular Combustor. <i>Aerosol Science and Technology</i> , 2015, 49, 842-855.	3.1	35
51	Effective Density and Volatility of Particles Emitted from Gasoline Direct Injection Vehicles and Implications for Particle Mass Measurement. <i>Aerosol Science and Technology</i> , 2015, 49, 1051-1062.	3.1	45
52	Effect of Electrostatic Charge on Deposition of Uniformly Charged Monodisperse Particles in the Nasal Extrathoracic Airways of an Infant. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2015, 28, 30-34.	1.4	18
53	Effective Density and Mass-Mobility Exponent of Aircraft Turbine Particulate Matter. <i>Journal of Propulsion and Power</i> , 2015, 31, 573-582.	2.2	31
54	Demonstration of the CPMA-Electrometer System for Calibrating Black Carbon Particulate Mass Instruments. <i>Aerosol Science and Technology</i> , 2015, 49, 152-158.	3.1	15

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55	Hygroscopic effects on the mobility and mass of cigarette smoke particles. <i>Journal of Aerosol Science</i> , 2015, 86, 69-78.	3.8	10
56	Particle effective density and mass during steady-state operation of GDI, PFI, and diesel passenger cars. <i>Journal of Aerosol Science</i> , 2015, 83, 39-54.	3.8	65
57	Generation of a Monodisperse Size-Classified Aerosol Independent of Particle Charge. <i>Aerosol Science and Technology</i> , 2014, 48, i-iv.	3.1	27
58	Real-time driving cycle measurements of ultrafine particle emissions from two wheelers and comparison with passenger cars. <i>International Journal of Automotive Technology</i> , 2014, 15, 1053-1061.	1.4	7
59	Soot Aggregate Restructuring Due to Coatings of Secondary Organic Aerosol Derived from Aromatic Precursors. <i>Environmental Science & Technology</i> , 2014, 48, 14309-14316.	10.0	59
60	Effect of Induced Charge on Deposition of Uniformly Charged Particles in a Pediatric Oral-Extrathoracic Airway. <i>Aerosol Science and Technology</i> , 2014, 48, 508-514.	3.1	20
61	Size, volatility, and effective density of particulate emissions from a homogeneous charge compression ignition engine using compressed natural gas. <i>Journal of Aerosol Science</i> , 2014, 75, 1-8.	3.8	15
62	Effect of electrostatic charge on oral-extrathoracic deposition for uniformly charged monodisperse aerosols. <i>Journal of Aerosol Science</i> , 2014, 68, 38-45.	3.8	25
63	The Effect of Altitude on Inhaler Performance. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2116-2124.	3.3	6
64	Determination of particle mass, effective density, mass mobility exponent, and dynamic shape factor using an aerodynamic aerosol classifier and a differential mobility analyzer in tandem. <i>Journal of Aerosol Science</i> , 2014, 75, 35-42.	3.8	67
65	Steady-state measurement of the effective particle density of cigarette smoke. <i>Journal of Aerosol Science</i> , 2014, 75, 9-16.	3.8	41
66	Performance of Pressurized Metered-Dose Inhalers at Extreme Temperature Conditions. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 3553-3559.	3.3	11
67	Mass Mobility Measurements Using a Centrifugal Particle Mass Analyzer and Differential Mobility Spectrometer. <i>Aerosol Science and Technology</i> , 2013, 47, 1215-1225.	3.1	29
68	Mass, Mobility, Volatility, and Morphology of Soot Particles Generated by a McKenna and Inverted Burner. <i>Aerosol Science and Technology</i> , 2013, 47, 395-405.	3.1	70
69	Effect of fuel choice on nanoparticle emission factors in LPG-gasoline bi-fuel vehicles. <i>International Journal of Automotive Technology</i> , 2013, 14, 1-11.	1.4	6
70	An Instrument for the Classification of Aerosols by Particle Relaxation Time: Theoretical Models of the Aerodynamic Aerosol Classifier. <i>Aerosol Science and Technology</i> , 2013, 47, 916-926.	3.1	49
71	Response to Comment on "Radiative Absorption Enhancements Due to the Mixing State of Atmospheric Black Carbon". <i>Science</i> , 2013, 339, 393-393.	12.6	35
72	Coating Mass Dependence of Soot Aggregate Restructuring due to Coatings of Oleic Acid and Dioctyl Sebacate. <i>Aerosol Science and Technology</i> , 2013, 47, 192-200.	3.1	58

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73	The CPMA-Electrometer Systemâ€™A Suspended Particle Mass Concentration Standard. <i>Aerosol Science and Technology</i> , 2013, 47, i-iv.	3.1	29
74	Radiative Absorption Enhancements Due to the Mixing State of Atmospheric Black Carbon. <i>Science</i> , 2012, 337, 1078-1081.	12.6	618
75	Aerosol penetration in microchannels. <i>Journal of Aerosol Science</i> , 2011, 42, 321-328.	3.8	10
76	Effective density of Aquadag and fullerene soot black carbon reference materials used for SP2 calibration. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 2851-2858.	3.1	157
77	Determination of particle temperatures in a silica-generating counterflow flame via flame emission measurements. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 564-567.	4.8	6
78	The Detection Efficiency of the Single Particle Soot Photometer. <i>Aerosol Science and Technology</i> , 2010, 44, 612-628.	3.1	151
79	Deposition of Inhaled Ultrafine Aerosols in Replicas of Nasal Airways of Infants. <i>Aerosol Science and Technology</i> , 2010, 44, 741-752.	3.1	31
80	Soot Particle Studiesâ€™Instrument Inter-Comparisonâ€™Project Overview. <i>Aerosol Science and Technology</i> , 2010, 44, 592-611.	3.1	228
81	Overview of the Cumulus Humilis Aerosol Processing Study. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 1653-1668.	3.3	33
82	Dynamic Characteristics of a Fast-Response Aerosol Size Spectrometer. <i>Aerosol Science and Technology</i> , 2009, 43, 97-111.	3.1	14
83	Measuring aerosol size distributions with the fast integrated mobility spectrometer. <i>Journal of Aerosol Science</i> , 2008, 39, 940-956.	3.8	45
84	Acoustic method for measuring the sound speed of gases over small path lengths. <i>Review of Scientific Instruments</i> , 2007, 78, 054901.	1.3	4
85	An ultrasonic sound speed sensor for measuring exhaust gas recirculation levels. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2007, 221, 181-189.	1.9	1
86	Diesel soot mass calculation in real-time with a differential mobility spectrometer. <i>Journal of Aerosol Science</i> , 2007, 38, 52-68.	3.8	132
87	The effective density and fractal dimension of particles emitted from a light-duty diesel vehicle with a diesel oxidation catalyst. <i>Journal of Aerosol Science</i> , 2007, 38, 69-82.	3.8	176
88	The experimental transfer function of the Couette centrifugal particle mass analyzer. <i>Journal of Aerosol Science</i> , 2006, 37, 1840-1852.	3.8	40
89	A Numerical Calculation of the Transfer Function of the Fluted Centrifugal Particle Mass Analyzer. <i>Aerosol Science and Technology</i> , 2005, 39, 1002-1009.	3.1	11
90	New method for particle mass classificationâ€™the Couette centrifugal particle mass analyzer. <i>Journal of Aerosol Science</i> , 2005, 36, 1338-1352.	3.8	139

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91	A Fuel Quality Sensor for Fuel Cell Vehicles, Natural Gas Vehicles, and Variable Gaseous Fuel Vehicles. , 0, , .		0
92	Effect of Engine-Out Soot Emissions and the Frequency of Regeneration on Gasoline Particulate Filter Efficiency. , 0, , .		7