Jorma Keskinen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Shipping Remains a Globally Significant Source of Anthropogenic PN Emissions Even after 2020 Sulfur Regulation. Environmental Science & Technology, 2021, 55, 129-138.	10.0	31
2	Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels. Environmental Science & Technology, 2020, 54, 5376-5384.	10.0	30
3	Aerosol gas exchange system (AGES) for nanoparticle sampling at elevated temperatures: Modeling and experimental characterization. Scientific Reports, 2019, 9, 17149.	3.3	3
4	Comparative performance of a thermal denuder and a catalytic stripper in sampling laboratory and marine exhaust aerosols. Aerosol Science and Technology, 2018, 52, 420-432.	3.1	26
5	Infant and Adult Inhalation Exposure to Resuspended Biological Particulate Matter. Environmental Science & Technology, 2018, 52, 237-247.	10.0	57
6	Vertical profiles of lung deposited surface area concentration of particulate matter measured with a drone in a street canyon. Environmental Pollution, 2018, 241, 96-105.	7.5	46
7	Crawling-induced floor dust resuspension affects the microbiota of the infant breathing zone. Microbiome, 2018, 6, 25.	11.1	40
8	Extending the Faraday cup aerosol electrometer based calibration method up to 5 Âμm. Aerosol Science and Technology, 2018, 52, 828-840.	3.1	11
9	The effect of materials and obliquity of the impact on the critical velocity of rebound. Aerosol Science and Technology, 2017, 51, 301-310.	3.1	7
10	Physical and chemical characteristics of flue-gas particles in a large pulverized fuel-fired power plant boiler during co-combustion of coal and wood pellets. Combustion and Flame, 2017, 176, 554-566.	5.2	35
11	Traffic is a major source of atmospheric nanocluster aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7549-7554.	7.1	171
12	Particle charge-size distribution measurement using a differential mobility analyzer and an electrical low pressure impactor. Aerosol Science and Technology, 2017, 51, 20-29.	3.1	12
13	Influence of fuel ethanol content on primary emissions and secondary aerosol formation potential for a modern flex-fuel gasoline vehicle. Atmospheric Chemistry and Physics, 2017, 17, 5311-5329.	4.9	55
14	Comparison of primary and secondary particle formation from natural gas engine exhaust and of their volatility characteristics. Atmospheric Chemistry and Physics, 2017, 17, 8739-8755.	4.9	20
15	A New Miniaturized Sensor for Ultra-Fast On-Board Soot Concentration Measurements. SAE International Journal of Engines, 2017, 10, 1859-1865.	0.4	6
16	A new oxidation flow reactor for measuring secondary aerosol formation of rapidly changing emission sources. Atmospheric Measurement Techniques, 2017, 10, 1519-1537.	3.1	44
17	Differential diffusion analyzer. Aerosol Science and Technology, 2017, 51, 1429-1437.	3.1	3
18	Improving the signal-to-noise ratio of Faraday cup aerosol electrometer based aerosol instrument calibrations. Aerosol Science and Technology, 2016, 50, 373-379.	3.1	6

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19	Triboelectric charging of fungal spores during resuspension and rebound. Aerosol Science and Technology, 2016, 50, 187-197.	3.1	6
20	Real-time effective density monitor (DENSMO) for aerosol nanoparticle production. Aerosol Science and Technology, 2016, 50, 487-496.	3.1	5
21	Lung deposited surface area size distributions of particulate matter in different urban areas. Atmospheric Environment, 2016, 136, 105-113.	4.1	67
22	Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions. Fuel, 2016, 186, 456-465.	6.4	48
23	Performance of a sonic jet-type charger in high dust load. Journal of Electrostatics, 2016, 83, 1-6.	1.9	5
24	Heavy Duty Diesel Exhaust Particles during Engine Motoring Formed by Lube Oil Consumption. Environmental Science & Technology, 2016, 50, 12504-12511.	10.0	25
25	New particle formation in the fresh flue-gas plume from a coal-fired power plant: effect of flue-gas cleaning. Atmospheric Chemistry and Physics, 2016, 16, 7485-7496.	4.9	17
26	Time-resolved characterization of primary particle emissions and secondary particle formation from a modern gasoline passenger car. Atmospheric Chemistry and Physics, 2016, 16, 8559-8570.	4.9	76
27	Exhaust particle and NOx emission performance of an SCR heavy duty truck operating in real-world conditions. Atmospheric Environment, 2016, 126, 136-144.	4.1	27
28	Release and characteristics of fungal fragments in various conditions. Science of the Total Environment, 2016, 547, 234-243.	8.0	26
29	Identification of single microbial particles using electro-dynamic balance assisted laser-induced breakdown and fluorescence spectroscopy. Aerosol Science and Technology, 2016, 50, 126-132.	3.1	24
30	Effects of fungal species, cultivation time, growth substrate, and air exposure velocity on the fluorescence properties of airborne fungal spores. Indoor Air, 2015, 25, 653-661.	4.3	19
31	Effects of Fresh Lubricant Oils on Particle Emissions Emitted by a Modern Gasoline Direct Injection Passenger Car. Environmental Science & Technology, 2015, 49, 3644-3652.	10.0	70
32	Monitoring urban air quality with a diffusion charger based electrical particle sensor. Urban Climate, 2015, 14, 441-456.	5.7	16
33	The critical velocity of rebound determined for sub-micron silver particles with a variable nozzle area impactor. Journal of Aerosol Science, 2015, 86, 32-43.	3.8	13
34	Phase State and Deliquescence Hysteresis of Ammonium-Sulfate-Seeded Secondary Organic Aerosol. Aerosol Science and Technology, 2015, 49, 531-537.	3.1	15
35	The formation and physical properties of the particle emissions from a natural gas engine. Fuel, 2015, 162, 155-161.	6.4	98
36	Physical properties of aerosol particles measured from a bubbling fluidized bed boiler. Fuel, 2015, 139, 144-153.	6.4	11

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37	Seasonal and Diurnal Variations of Fluorescent Bioaerosol Concentration and Size Distribution in the Urban Environment. Aerosol and Air Quality Research, 2015, 15, 572-581.	2.1	33
38	First comprehensive inter-comparison of aerosol electrometers for particle sizes up to 200 nm and concentration range 1000 cm ^{â^3} to 17 000 cm ^{â^3} . Metrologia, 2014, 51, 293-30)3. ^{1.2}	22
39	Heavy-duty, off-road diesel engine low-load particle number emissions and particle control. Journal of the Air and Waste Management Association, 2014, 64, 1186-1194.	1.9	22
40	Exhaust particles of modern gasoline vehicles: A laboratory and an on-road study. Atmospheric Environment, 2014, 97, 262-270.	4.1	145
41	Vehicle Engines Produce Exhaust Nanoparticles Even When Not Fueled. Environmental Science & Technology, 2014, 48, 2043-2050.	10.0	77
42	Performance of Two Fluorescence-Based Real-Time Bioaerosol Detectors: BioScout vs. UVAPS. Aerosol Science and Technology, 2014, 48, 371-378.	3.1	40
43	Optical and Chemical Characterization of Aerosols Emitted from Coal, Heavy and Light Fuel Oil, and Small-Scale Wood Combustion. Environmental Science & Technology, 2014, 48, 827-836.	10.0	15
44	Sulfur Driven Nucleation Mode Formation in Diesel Exhaust under Transient Driving Conditions. Environmental Science & Technology, 2014, 48, 140206134439008.	10.0	16
45	Characterization and Response Model of the PPS-M Aerosol Sensor. Aerosol Science and Technology, 2014, 48, 1022-1030.	3.1	17
46	Bipolar Charge Analyzer (BOLAR): A new aerosol instrument for bipolar charge measurements. Journal of Aerosol Science, 2014, 77, 16-30.	3.8	18
47	Calibration of the new electrical low pressure impactor (ELPI+). Journal of Aerosol Science, 2014, 69, 150-159.	3.8	124
48	Chemical composition and size of particles in emissions of a coal-fired power plant with flue gas desulfurization. Journal of Aerosol Science, 2014, 73, 14-26.	3.8	58
49	High-resolution low-pressure cascade impactor. Journal of Aerosol Science, 2014, 78, 97-109.	3.8	24
50	Detection of Ni, Pb and Zn in water using electrodynamic single-particle levitation and laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 99, 9-14.	2.9	34
51	Mobile Particle and NOx Emission Characterization at Helsinki Downtown: Comparison of Different Traffic Flow Areas. Aerosol and Air Quality Research, 2014, 14, 1372-1382.	2.1	24
52	Effects of Gaseous Sulphuric Acid on Diesel Exhaust Nanoparticle Formation and Characteristics. Environmental Science & Technology, 2013, 47, 11882-11889.	10.0	74
53	Impact of Vehicle Development and Fuel Quality on Exhaust Nanoparticle Emissions of Traffic. Environmental Science & Technology, 2013, 47, 130715120557004.	10.0	4
54	A new method for characterizing the bounce and charge transfer properties of nanoparticles. Journal of Aerosol Science, 2013, 55, 104-115.	3.8	26

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55	Diesel exhaust emissions and particle hygroscopicity with HVO fuel-oxygenate blend. Fuel, 2013, 103, 380-386.	6.4	44
56	Size Distribution, Chemical Composition, and Hygroscopicity of Fine Particles Emitted from an Oil-Fired Heating Plant. Environmental Science & amp; Technology, 2013, 47, 14468-14475.	10.0	16
57	Fluorescence spectroscopy of atmospherically relevant bacterial and fungal spores and potential interferences. Atmospheric Environment, 2013, 71, 202-209.	4.1	35
58	The Effect of a Particle Oxidation Catalyst (POC®) on Particle Emissions of a GDI Car during Transient Engine Operation. , 2013, , .		4
59	Study of the PM Gas-Phase Filter Artifact Using a Setup for Mixing Diesel-Like Soot and Hydrocarbons. Aerosol Science and Technology, 2012, 46, 1045-1052.	3.1	12
60	Study of Miller timing on exhaust emissions of a hydrotreated vegetable oil (HVO)-fueled diesel engine. Journal of the Air and Waste Management Association, 2012, 62, 1305-1312.	1.9	23
61	The influence of nozzle throat length on the resolution of a low pressure impactor—An experimental and numerical study. Journal of Aerosol Science, 2012, 53, 76-84.	3.8	10
62	Spatial and temporal characterization of traffic emissions in urban microenvironments with a mobile laboratory. Atmospheric Environment, 2012, 63, 156-167.	4.1	100
63	Reductions in Particulate and NO _{<i>x</i>} Emissions by Diesel Engine Parameter Adjustments with HVO Fuel. Environmental Science & Technology, 2012, 46, 6198-6204.	10.0	41
64	Atmospheric synthesis of superhydrophobic TiO2 nanoparticle deposits in a single step using Liquid Flame Spray. Journal of Aerosol Science, 2012, 52, 57-68.	3.8	34
65	Comparison of Three Particle Number Concentration Calibration Standards Through Calibration of a Single CPC in a Wide Particle Size Range. Aerosol Science and Technology, 2012, 46, 1163-1173.	3.1	27
66	First Online Measurements of Sulfuric Acid Gas in Modern Heavy-Duty Diesel Engine Exhaust: Implications for Nanoparticle Formation. Environmental Science & Technology, 2012, 46, 11227-11234.	10.0	78
67	Validating the single charged aerosol reference (SCAR) as a traceable particle number concentration standard for 10 nm to 500 nm aerosol particles. Metrologia, 2011, 48, 426-436.	1.2	14
68	Effect of Fuel Injection Pressure on a Heavy-Duty Diesel Engine Nonvolatile Particle Emission. Environmental Science & Technology, 2011, 45, 2504-2509.	10.0	46
69	Simulation of low pressure impactor collection efficiency curves. Journal of Aerosol Science, 2011, 42, 329-340.	3.8	41
70	Bounce behavior of freshly nucleated biogenic secondary organic aerosol particles. Atmospheric Chemistry and Physics, 2011, 11, 8759-8766.	4.9	92
71	Technical Note: Measuring condensation sink and ion sink of atmospheric aerosols with the electrical low pressure impactor (ELPI). Atmospheric Chemistry and Physics, 2010, 10, 1361-1368.	4.9	10
72	Fluorescence properties of biochemicals in dry NaCl composite aerosol particles and in solutions. Applied Physics B: Lasers and Optics, 2010, 99, 841-851.	2.2	12

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73	The comparison of particle oxidation and surface structure of diesel soot particles between fossil fuel and novel renewable diesel fuel. Fuel, 2010, 89, 4008-4013.	6.4	35
74	Can Real-World Diesel Exhaust Particle Size Distribution be Reproduced in the Laboratory? A Critical Review Jorma Keskinen. Journal of the Air and Waste Management Association, 2010, 60, 1245-1255.	1.9	76
75	Dependence between Nonvolatile Nucleation Mode Particle and Soot Number Concentrations in an EGR Equipped Heavy-Duty Diesel Engine Exhaust. Environmental Science & Technology, 2010, 44, 3175-3180.	10.0	57
76	Towards traceable particle number concentration standard: Single charged aerosol reference (SCAR). Journal of Aerosol Science, 2010, 41, 719-728.	3.8	39
77	Improving the Nanoparticle Resolution of the ELPI. Aerosol and Air Quality Research, 2010, 10, 360-366.	2.1	62
78	Liquid flame spray for generating metal and metal oxide nanoparticle test aerosol. Human and Experimental Toxicology, 2009, 28, 421-431.	2.2	14
79	Nanoparticle Emissions from a Heavy-Duty Engine Running on Alternative Diesel Fuels. Environmental Science & Technology, 2009, 43, 9501-9506.	10.0	51
80	Effect of Open Channel Filter on Particle Emissions of Modern Diesel Engine. Journal of the Air and Waste Management Association, 2009, 59, 1148-1154.	1.9	54
81	Heavy Duty Diesel Engine Exhaust Aerosol Particle and Ion Measurements. Environmental Science & Technology, 2009, 43, 163-168.	10.0	70
82	Modification of the ELPI to measure mean particle effective density in real-time. Journal of Aerosol Science, 2009, 40, 823-831.	3.8	13
83	Fluorescence cross sections of bioaerosols and suspended biological agents. Applied Optics, 2009, 48, 4320.	2.1	23
84	Non-Collecting Electrical Sensor for Particle Concentration Measurement. Aerosol and Air Quality Research, 2009, 9, 470-477.	2.1	15
85	Experimental study of the effect of temperature on ion cluster formation using ion mobility spectrometry. Atmospheric Research, 2008, 90, 115-124.	4.1	17
86	Adjusting mobility scales of ion mobility spectrometers using 2,6-DtBP as a reference compound. Talanta, 2008, 76, 1218-1223.	5.5	31
87	Instrumentation for measuring fluorescence cross sections from airborne microsized particles. Applied Optics, 2008, 47, 110.	2.1	23
88	The Effect of Sulphur in Diesel Exhaust Aerosol: Models Compared with Measurements. Aerosol Science and Technology, 2008, 42, 916-929.	3.1	25
89	Mode resolved density of atmospheric aerosol particles. Atmospheric Chemistry and Physics, 2008, 8, 5327-5337.	4.9	52
90	Hydrocarbon Condensation in Heavy-Duty Diesel Exhaust. Environmental Science & Technology, 2007, 41, 6397-6402.	10.0	46

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91	Nucleation Mode Particles with a Nonvolatile Core in the Exhaust of a Heavy Duty Diesel Vehicle. Environmental Science & Technology, 2007, 41, 6384-6389.	10.0	216
92	Development of particle number size distribution near a major road in Helsinki during an episodic inversion situation. Atmospheric Environment, 2007, 41, 1759-1767.	4.1	47
93	Synthesis of Pd–alumina and Pd–lanthana Suspension for Catalytic Applications by One-step Liquid Flame Spray. Catalysis Letters, 2007, 119, 172-178.	2.6	10
94	Effect of Oxidation Catalysts on Diesel Soot Particles. Environmental Science & Technology, 2006, 40, 4776-4781.	10.0	63
95	Computation of maximum rate of water–sulphuric acid nucleation in diesel exhaust. Journal of Aerosol Science, 2006, 37, 1596-1604.	3.8	28
96	Winter and summer time size distributions and densities of traffic-related aerosol particles at a busy highway in Helsinki. Atmospheric Chemistry and Physics, 2006, 6, 2411-2421.	4.9	81
97	Mass Measurement of Non-Spherical Particles: TDMA-ELPI Setup and Performance Tests. Aerosol Science and Technology, 2006, 40, 997-1001.	3.1	6
98	Titania and titania-silver nanoparticle deposits made by Liquid Flame Spray and their functionality as photocatalyst for organic- and biofilm removal. Catalysis Letters, 2006, 111, 127-132.	2.6	44
99	Dispersion of particles and trace gases nearby a city highway: Mobile laboratory measurements in Finland. Atmospheric Environment, 2006, 40, 867-879.	4.1	115
100	Effect of dilution conditions and driving parameters on nucleation mode particles in diesel exhaust: Laboratory and on-road study. Atmospheric Environment, 2006, 40, 2893-2901.	4.1	177
101	Optical chamber design for aerosol particle fluorescent measurement. , 2006, 6398, 88.		4
102	ELPI Response and Data Reduction I: Response Functions. Aerosol Science and Technology, 2005, 39, 575-582.	3.1	60
103	The ELPI Response and Data Reduction II: Properties of Kernels and Data Inversion. Aerosol Science and Technology, 2005, 39, 583-595.	3.1	28
104	Cold Temperature PM Emissions Measurement:Â Method Evaluation and Application to Light Duty Vehicles. Environmental Science & Technology, 2005, 39, 9424-9430.	10.0	37
105	Effect of Lubricant on the Formation of Heavy-Duty Diesel Exhaust Nanoparticles. Environmental Science & Technology, 2005, 39, 8497-8504.	10.0	111
106	Generation of silver/palladium nanoparticles by liquid flame spray. Journal of Materials Research, 2004, 19, 1544-1550.	2.6	34
107	"Snifferâ€â€"a novel tool for chasing vehicles and measuring traffic pollutants. Atmospheric Environment, 2004, 38, 3625-3635.	4.1	136
108	Generation of metal and metal oxide nanoparticles by liquid flame spray process. Journal of Materials Science, 2004, 39, 2783-2788.	3.7	83

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109	Sampling Conditions for the Measurement of Nucleation Mode Particles in the Exhaust of a Diesel Vehicle. Aerosol Science and Technology, 2004, 38, 1149-1160.	3.1	110
110	Effect of Engine Load on Diesel Soot Particles. Environmental Science & Technology, 2004, 38, 2551-2556.	10.0	103
111	Nucleation Mode Formation in Heavy-Duty Diesel Exhaust with and without a Particulate Filter. Environmental Science & Technology, 2004, 38, 4884-4890.	10.0	163
112	Method for Measuring Effective Density and Fractal Dimension of Aerosol Agglomerates. Aerosol Science and Technology, 2004, 38, 437-446.	3.1	82
113	Effect of impaction plate roughness and porosity on collection efficiency. Journal of Aerosol Science, 2004, 35, 301-308.	3.8	29
114	Estimation of the cutpoint of an impactor with porous substrates. Journal of Aerosol Science, 2004, 35, 657-663.	3.8	8
115	Use of a corona charger for the characterisation of automotive exhaust aerosol. Journal of Aerosol Science, 2004, 35, 943-963.	3.8	53
116	Spray Charging of Droplets in a Wet Scrubber. Journal of the Air and Waste Management Association, 2002, 52, 175-180.	1.9	20
117	On-line measurement of size distribution and effective density of submicron aerosol particles. Journal of Aerosol Science, 2002, 33, 1541-1557.	3.8	100
118	Fine particle losses in electrical low-pressure impactor. Journal of Aerosol Science, 2001, 32, 389-401.	3.8	76
119	PERFORMANCE EVALUATION OF THE ELECTRICAL LOW-PRESSURE IMPACTOR (ELPI). Journal of Aerosol Science, 2000, 31, 249-261.	3.8	331
120	Liquid Flame Spraying for Glass Coloring. Journal of Thermal Spray Technology, 1999, 8, 583-589.	3.1	20
121	Electrical calibration method for cascade impactors. Journal of Aerosol Science, 1999, 30, 111-116.	3.8	36
122	Ash formation during fluidized-bed incineration of paper mill waste sludge. Journal of Aerosol Science, 1998, 29, 461-480.	3.8	55
123	Characteristics of the liquid flame spray process. Surface and Coatings Technology, 1997, 90, 210-216.	4.8	113
124	Mobility distribution of acetone cluster ions. Journal of Aerosol Science, 1996, 27, 175-190.	3.8	44
125	Bipolar charged aerosol agglomeration with alternating electric field in laminar gas flow. Journal of Electrostatics, 1996, 38, 303-315.	1.9	40
126	Comparison of mobility equivalent diameter with Kelvinâ€Thomson diameter using ion mobility data. Journal of Chemical Physics, 1996, 105, 1562-1571.	3.0	65

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127	Electrical low pressure impactor. Journal of Aerosol Science, 1992, 23, 353-360.	3.8	518
128	Low pressure impactor with electrical concentration detection. Journal of Aerosol Science, 1991, 22, S285.	3.8	0
129	Combined electrical and optical detectionin continuous mass monitoring. Journal of Aerosol Science, 1991, 22, S367-S370.	3.8	0
130	Radon decay product attachment rates in dwellings. Journal of Aerosol Science, 1991, 22, 765-771.	3.8	9
131	Small ion concentration in houses with enhanced radon concentration. Environment International, 1989, 15, 309-313.	10.0	6
132	Continuous monitoring of air impurities in dwellings. Environment International, 1989, 15, 557-562.	10.0	6
133	A Method of Modifying the Sensitivity Function of an Aerosol Photometer. AIHA Journal, 1988, 49, 396-400.	0.4	1
134	Virtual Impactor as an Accessory to Optical Particle Counters. Aerosol Science and Technology, 1987, 6, 79-83.	3.1	18
135	Optimization of filtration efficiency and ozone production of the electrostatic precipitator. Journal of Aerosol Science, 1986, 17, 622-626.	3.8	21
136	Aerosol formation caused by electrostatic precipitator. Journal of Aerosol Science, 1986, 17, 647-649.	3.8	5
137	The control of radon progeny by air treatment devices. Science of the Total Environment, 1985, 45, 493-498.	8.0	6
138	Effect of Exhaust Flow Conditions and External Cooling on the Performance of the Particle Oxidation Catalyst (POC). , 0, , .		7
139	Reduction of Heavy-Duty Diesel Exhaust Particle Number and Mass at Low Exhaust Temperature Driving by the DOC and the SCR. SAE International Journal of Fuels and Lubricants, 0, 5, 1114-1122.	0.2	15
140	Performance of Particle Oxidation Catalyst and Particle Formation Studies with Sulphur Containing Fuels. SAE International Journal of Fuels and Lubricants, 0, 5, 611-619.	0.2	10
141	Effect of Injection Parameters on Exhaust Gaseous and Nucleation Mode Particle Emissions of a Tier 4i Nonroad Diesel Engine. , 0, , .		6