David B Kittelson

List of Publications by Year
in descending order

35 papers	4,839 citations	430754 18 h-index	454834 30 g-index
35 all docs	35 docs citations	35 times ranked	3754 citing authors

#	Article	IF	Citations
1	Engines and nanoparticles. Journal of Aerosol Science, 1998, 29, 575-588.	1.8	2,020
2	Generating Particle Beams of Controlled Dimensions and Divergence: I. Theory of Particle Motion in Aerodynamic Lenses and Nozzle Expansions. Aerosol Science and Technology, 1995, 22, 293-313.	1.5	459
3	Relationship between Particle Mass and Mobility for Diesel Exhaust Particles. Environmental Science & Technology, 2003, 37, 577-583.	4.6	444
4	Generating Particle Beams of Controlled Dimensions and Divergence: II. Experimental Evaluation of Particle Motion in Aerodynamic Lenses and Nozzle Expansions. Aerosol Science and Technology, 1995, 22, 314-324.	1.5	393
5	Structural Properties of Diesel Exhaust Particles Measured by Transmission Electron Microscopy (TEM): Relationships to Particle Mass and Mobility. Aerosol Science and Technology, 2004, 38, 881-889.	1.5	294
6	Measurement of Inherent Material Density of Nanoparticle Agglomerates. Journal of Nanoparticle Research, 2004, 6, 267-272.	0.8	263
7	Characteristics of SME Biodiesel-Fueled Diesel Particle Emissions and the Kinetics of Oxidation. Environmental Science & Technology, 2006, 40, 4949-4955.	4.6	166
8	Size-Selected Nanoparticle Chemistry:â€‰ Kinetics of Soot Oxidation. Journal of Physical Chemistry A, 2002, 106, 96-103.	1.1	121
9	Characterization of Aerosol Surface Instruments in Transition Regime. Aerosol Science and Technology, 2005, 39, 902-911.	1.5	101
10	Kinetics of Diesel Nanoparticle Oxidation. Environmental Science & Technology, 2003, 37, 1949-1954.	4.6	67
11	Solar Gasification of Biomass: Kinetics of Pyrolysis and Steam Gasification in Molten Salt. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.1	57
12	The Influence of Engine Lubricating Oil on Diesel Nanoparticle Emissions and Kinetics of Oxidation. , 0, , .		51
13	Evaluation of the European PMP Methodologies during On-Road and Chassis Dynamometer Testing for DPF Equipped Heavy-Duty Diesel Vehicles. Aerosol Science and Technology, 2009, 43, 962-969.	1.5	48
14	Emissions from Ethanol-Gasoline Blends: A Single Particle Perspective. Atmosphere, 2011, 2, 182-200.	1.0	40
15	Nature of Sub-23-nm Particles Downstream of the European Particle Measurement Programme (PMP)-Compliant System: A Real-Time Data Perspective. Aerosol Science and Technology, 2012, 46, 886-896.	1.5	39
16	Measurement of Electrical Charge on Diesel Particles. Aerosol Science and Technology, 2005, 39, 1129-1135.	1.5	38
17	Source apportionment of diesel and spark ignition exhaust aerosol using on-road data from the Minneapolis metropolitan area. Atmospheric Environment, 2005, 39, 2111-2121.	1.9	32
18	Impact of Biofuel Blends on Black Carbon Emissions from a Gas Turbine Engine. Energy & Fuels, 2020, 34, 4958-4966.	2.5	30

#	Article	IF	Citations
19	Dual-Fuel Diesel Engine Combustion With Hydrogen, Gasoline, and Ethanol as Fumigants: Effect of Diesel Injection Timing. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	0.5	22
20	Investigation of Diesel Nanoparticle Nucleation Mechanisms. Aerosol Science and Technology, 2008, 42, 335-342.	1.5	18
21	Fuel Sulfur and Iron Additives Contribute to the Formation of Carbon Nanotube-like Structures in an Internal Combustion Engine. Environmental Science and Technology Letters, 2016, 3, 364-368.	3.9	17
22	Solid Particle Number and Mass Emissions from Lean and Stoichiometric Gasoline Direct Injection Engine Operation. , 0, , .		16
23	Assessment of a regulatory measurement system for the determination of the non-volatile particulate matter emissions from commercial aircraft engines. Journal of Aerosol Science, 2021, 154, 105734.	1.8	15
24	Particle emissions from mobile sources: Discussion of ultrafine particle emissions and definition. Journal of Aerosol Science, 2022, 159, 105881.	1.8	15
25	Size and volatility of particle emissions from an ethanol-fueled HCCI engine. Aerosol Science and Technology, 2017, 51, 614-625.	1.5	12
26	Comparison of Water and Butanol Based CPCs for Examining Diesel Combustion Aerosols. Aerosol Science and Technology, 2010, 44, 629-638.	1.5	11
27	Bipolar Diffusion Charging of Aggregates. Aerosol Science and Technology, 2012, 46, 794-803.	1.5	11
28	Impacts of Exhaust Transfer System Contamination on Particulate Matter Measurements. Emission Control Science and Technology, 2020, 6, 163-177.	0.8	10
29	A Method to Measure Static Charge on a Filter Used for Gravimetric Analysis. Aerosol Science and Technology, 2008, 42, 714-721.	1.5	9
30	Effects of Fuel Properties on Particle Number and Particle Mass Emissions from Lean and Stoichiometric Gasoline Direct Injection Engine Operation. , 0, , .		9
31	Evaluation of Partial Flow Dilution Systems for Very Low PM Mass Measurements. Emission Control Science and Technology, 2018, 4, 247-259.	0.8	6
32	Impacts of engine lubrication oil-derived ash on soot oxidative reactivity on a catalytic gasoline particulate filter. Journal of Aerosol Science, 2022, 162, 105960.	1.8	2
33	Measuring the effect of fireworks on air quality in Minneapolis, Minnesota. SN Applied Sciences, 2022, 4, 1.	1.5	2
34	Measurement of Inherent Material Density of Nanoparticle Agglomerates. , 2004, 6, 267.		1
35	Gravimetric Measurements of Filtering Facepiece Respirators Challenged With Diesel Exhaust. Annals of Work Exposures and Health, 2017, 61, 737-747.	0.6	0