

Leonidas Ntziachristos

List of Publications by Year in descending order

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123
papers

6,604
citations

61687

45
h-index

90395

73
g-index

126
all docs

126
docs citations

126
times ranked

5683
citing authors

#	ARTICLE	IF	CITATIONS
1	Revisiting Total Particle Number Measurements for Vehicle Exhaust Regulations. Atmosphere, 2022, 13, 155.	1.0	22
2	Traffic impacts on energy consumption of electric and conventional vehicles. Transportation Research, Part D: Transport and Environment, 2022, 105, 103231.	3.2	18
3	Advances in air quality research – current and emerging challenges. Atmospheric Chemistry and Physics, 2022, 22, 4615-4703.	1.9	63
4	Particle emissions measurements on CNG vehicles focusing on Sub-23nm. Aerosol Science and Technology, 2021, 55, 182-193.	1.5	21
5	In Use Determination of Aerodynamic and Rolling Resistances of Heavy-Duty Vehicles. Sustainability, 2021, 13, 974.	1.6	9
6	A Low-Cost Optoacoustic Sensor for Environmental Monitoring. Sensors, 2021, 21, 1379.	2.1	7
7	Shipping Remains a Globally Significant Source of Anthropogenic PN Emissions Even after 2020 Sulfur Regulation. Environmental Science & Technology, 2021, 55, 129-138.	4.6	31
8	Development of exhaust emission factors for vessels: A review and meta-analysis of available data. Atmospheric Environment: X, 2021, 12, 100142.	0.8	4
9	Particle number (PN) emissions from gasoline, diesel, LPG, CNG and hybrid-electric light-duty vehicles under real-world driving conditions. Atmospheric Environment, 2020, 222, 117126.	1.9	67
10	Real-world gaseous and particulate emissions from Euro IV to VI medium duty diesel trucks. Science of the Total Environment, 2020, 731, 139137.	3.9	23
11	Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines. Environmental Science & Technology, 2019, 53, 10408-10416.	4.6	26
12	European Regulatory Framework and Particulate Matter Emissions of Gasoline Light-Duty Vehicles: A Review. Catalysts, 2019, 9, 586.	1.6	87
13	Particulate Emissions of Euro 4 Motorcycles and Sampling Considerations. Atmosphere, 2019, 10, 421.	1.0	15
14	Adaptation of Black Carbon Footprint Concept Would Accelerate Mitigation of Global Warming. Environmental Science & Technology, 2019, 53, 12153-12155.	4.6	14
15	Characterization of laboratory and real driving emissions of individual Euro 6 light-duty vehicles – Fresh particles and secondary aerosol formation. Environmental Pollution, 2019, 255, 113175.	3.7	38
16	Evaluation of Real-World Gaseous Emissions Performance of Selective Catalytic Reduction and Diesel Particulate Filter Bus Retrofits. Environmental Science & Technology, 2019, 53, 4440-4449.	4.6	23
17	A study on the CO ₂ and NO _x emissions performance of Euro 6 diesel vehicles under various chassis dynamometer and on-road conditions including latest regulatory provisions. Science of the Total Environment, 2019, 666, 337-346.	3.9	90
18	Particulate Mass and Nonvolatile Particle Number Emissions from Marine Engines Using Low-Sulfur Fuels, Natural Gas, or Scrubbers. Environmental Science & Technology, 2019, 53, 3315-3322.	4.6	69

#	ARTICLE	IF	CITATIONS
19	Characterization of Real-World Pollutant Emissions and Fuel Consumption of Heavy-Duty Diesel Trucks with Latest Emissions Control. <i>Atmosphere</i> , 2019, 10, 535.	1.0	8
20	Experimental assessment of the potential to decrease diesel NOx emissions beyond minimum requirements for Euro 6 Real Drive Emissions (RDE) compliance. <i>Science of the Total Environment</i> , 2018, 618, 1400-1407.	3.9	59
21	Comparative performance of a thermal denuder and a catalytic stripper in sampling laboratory and marine exhaust aerosols. <i>Aerosol Science and Technology</i> , 2018, 52, 420-432.	1.5	26
22	Improving fuel consumption and CO2 emissions calculations in urban areas by coupling a dynamic micro traffic model with an instantaneous emissions model. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 65, 772-783.	3.2	26
23	Emission Factors for a Taxi Fleet Operating on Liquefied Petroleum Gas (LPG) as a Function of Speed and Road Slope. <i>Frontiers in Mechanical Engineering</i> , 2018, 4, .	0.8	10
24	Real-World Measurement of Hybrid Busesâ€™ Fuel Consumption and Pollutant Emissions in a Metropolitan Urban Road Network. <i>Energies</i> , 2018, 11, 2569.	1.6	24
25	Exploring the stochastic and deterministic aspects of cyclic emission variability on a high speed spark-ignition engine. <i>Energy</i> , 2017, 118, 68-76.	4.5	26
26	Particulate mass and number emission factors for road vehicles based on literature data and relevant gap filling methods. <i>Atmospheric Environment</i> , 2017, 168, 75-89.	1.9	22
27	Potential of energy efficiency technologies in reducing vehicle consumption under type approval and real world conditions. <i>Energy</i> , 2017, 140, 365-373.	4.5	21
28	Application of the dual Pegasor Particle Sensor to real-time measurement of motor vehicle exhaust PM. <i>Journal of Aerosol Science</i> , 2017, 103, 93-104.	1.8	16
29	Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions. <i>Fuel</i> , 2016, 186, 456-465.	3.4	48
30	Quantification of the Effect of ITS on CO2 Emissions from Road Transportation. <i>Transportation Research Procedia</i> , 2016, 14, 3139-3148.	0.8	8
31	Implications of diesel emissions control failures to emission factors and road transport NOx evolution. <i>Atmospheric Environment</i> , 2016, 141, 542-551.	1.9	69
32	Heavy Duty Diesel Exhaust Particles during Engine Motoring Formed by Lube Oil Consumption. <i>Environmental Science & Technology</i> , 2016, 50, 12504-12511.	4.6	25
33	Exhaust particle and NOx emission performance of an SCR heavy duty truck operating in real-world conditions. <i>Atmospheric Environment</i> , 2016, 126, 136-144.	1.9	27
34	Measuring number, mass, and size of exhaust particles with diffusion chargers: The dual Pegasor Particle Sensor. <i>Journal of Aerosol Science</i> , 2016, 92, 1-15.	1.8	27
35	Improvement of NO and CO predictions for a homogeneous combustion SI engine using a novel emissions model. <i>Applied Energy</i> , 2016, 162, 172-182.	5.1	10
36	Experimental Investigation of Cyclic Variability on Combustion and Emissions of a High-Speed SI Engine. , 2015, , .		19

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37	Investigation of Cycle-to-Cycle Variability of NO in Homogeneous Combustion. Oil and Gas Science and Technology, 2015, 70, 111-123.	1.4	4
38	Effects of Fresh Lubricant Oils on Particle Emissions Emitted by a Modern Gasoline Direct Injection Passenger Car. Environmental Science & Technology, 2015, 49, 3644-3652.	4.6	70
39	Daily and seasonal variation of traffic related aerosol pollution in Thessaloniki, Greece, during the financial crisis. Atmospheric Environment, 2015, 122, 577-587.	1.9	17
40	Use of a PPS Sensor in Evaluating the Impact of Fuel Efficiency Improvement Technologies on the Particle Emissions of a Euro 5 Diesel Car. , 2014, , .		4
41	Evaluating Particulate Emissions from a Flexible Fuel Vehicle with Direct Injection when Operated on Ethanol and Iso-butanol Blends. , 2014, , .		7
42	Exhaust particles of modern gasoline vehicles: A laboratory and an on-road study. Atmospheric Environment, 2014, 97, 262-270.	1.9	145
43	Review of motor vehicle particulate emissions sampling and measurement: From smoke and filter mass to particle number. Journal of Aerosol Science, 2014, 67, 48-86.	1.8	237
44	Vehicle Engines Produce Exhaust Nanoparticles Even When Not Fueled. Environmental Science & Technology, 2014, 48, 2043-2050.	4.6	77
45	Impact of Selective Catalytic Reduction on Exhaust Particle Formation over Excess Ammonia Events. Environmental Science & Technology, 2014, 48, 11527-11534.	4.6	64
46	In-use vs. type-approval fuel consumption of current passenger cars in Europe. Energy Policy, 2014, 67, 403-411.	4.2	67
47	Use of portable emissions measurement system (PEMS) for the development and validation of passenger car emission factors. Atmospheric Environment, 2013, 64, 329-338.	1.9	143
48	Cell Toxicity and Oxidative Potential of Engine Exhaust Particles: Impact of Using Particulate Filter or Biodiesel Fuel Blend. Environmental Science & Technology, 2013, 47, 5931-5938.	4.6	62
49	Road vehicle emission factors development: A review. Atmospheric Environment, 2013, 70, 84-97.	1.9	412
50	Evaluation of an oxidation catalyst (â€œcatalytic stripperâ€) in eliminating volatile material from combustion aerosol. Journal of Aerosol Science, 2013, 57, 144-155.	1.8	60
51	Development of a constant dilution sampling system for particulate and gaseous pollutant measurements. Measurement Science and Technology, 2013, 24, 085801.	1.4	1
52	The Policy Relevance of Wear Emissions from Road Transport, Now and in the Futureâ€”An International Workshop Report and Consensus Statement. Journal of the Air and Waste Management Association, 2013, 63, 136-149.	0.9	157
53	Impact of the dropping activity with vehicle age on air pollutant emissions. Atmospheric Pollution Research, 2013, 4, 282-289.	1.8	32
54	A detailed chemical mechanism to predict NO cycle-to-cycle variation in homogeneous engine combustion. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 408-415.	0.4	5

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55	Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies. <i>Fuel</i> , 2012, 98, 88-94.	3.4	62
56	What is the Real-World CO ₂ Reduction Benefit of the 95g/km Passenger Car Average Emission Target to be Reached by 2020?. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 48, 2048-2057.	0.5	6
57	Development of a Methodology and Tool to Evaluate the Impact of ICT Measures on Road Transport Emissions. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 48, 3418-3427.	0.5	9
58	Aerodynamic and Mobility Size Distribution Measurements to Reveal Biodiesel Effects on Diesel Exhaust Aerosol. <i>Aerosol Science and Technology</i> , 2011, 45, 587-595.	1.5	20
59	Uncertainty and Sensitivity Analysis of National Road Transport Inventories Compiled with COPERT 4. <i>Procedia, Social and Behavioral Sciences</i> , 2010, 2, 7690-7691.	0.5	18
60	Effects of low concentration biodiesel blends application on modern passenger cars. Part 2: Impact on carbonyl compound emissions. <i>Environmental Pollution</i> , 2010, 158, 2496-2503.	3.7	60
61	Effects of low concentration biodiesel blend application on modern passenger cars. Part 1: Feedstock impact on regulated pollutants, fuel consumption and particle emissions. <i>Environmental Pollution</i> , 2010, 158, 1451-1460.	3.7	59
62	Diesel passenger car PM emissions: From Euro 1 to Euro 4 with particle filter. <i>Atmospheric Environment</i> , 2010, 44, 909-916.	1.9	60
63	Validation of road vehicle and traffic emission models "A review and meta-analysis. <i>Atmospheric Environment</i> , 2010, 44, 2943-2953.	1.9	213
64	Biodiesel blend effects on common-rail diesel combustion and emissions. <i>Fuel</i> , 2010, 89, 3442-3449.	3.4	115
65	The Potential of a Partial-Flow Constant Dilution Ratio Sampling System as a Candidate for Vehicle Exhaust Aerosol Measurements Leonidas Ntziachristos. <i>Journal of the Air and Waste Management Association</i> , 2010, 60, 1223-1236.	0.9	19
66	Emissions of Particulate Trace Elements, Metals and Organic Species from Gasoline, Diesel, and Biodiesel Passenger Vehicles and Their Relation to Oxidative Potential. <i>Aerosol Science and Technology</i> , 2010, 44, 500-513.	1.5	186
67	Monitoring the inflammatory potential of exhaust particles from passenger cars in mice. <i>Inhalation Toxicology</i> , 2010, 22, 59-69.	0.8	26
68	Effect of ejector dilutors on measurements of automotive exhaust gas aerosol size distributions. <i>Measurement Science and Technology</i> , 2009, 20, 045703.	1.4	29
69	Decision support system for the evaluation of urban air pollution control options: Application for particulate pollution in Thessaloniki, Greece. <i>Science of the Total Environment</i> , 2009, 407, 5937-5948.	3.9	64
70	Isothermal soot oxidation experiments with intermediate gas change in a Perkin-Elmer TGA6. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 141-147.	2.0	10
71	Effects of biodiesel on passenger car fuel consumption, regulated and non-regulated pollutant emissions over legislated and real-world driving cycles. <i>Fuel</i> , 2009, 88, 1608-1617.	3.4	234
72	Chemical Characteristics and Oxidative Potential of Particulate Matter Emissions from Gasoline, Diesel, and Biodiesel Cars. <i>Environmental Science & Technology</i> , 2009, 43, 6334-6340.	4.6	167

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73	An investigation on the physical, chemical and ecotoxicological characteristics of particulate matter emitted from light-duty vehicles. <i>Environmental Pollution</i> , 2009, 157, 2320-2327.	3.7	61
74	COPERT: A European Road Transport Emission Inventory Model. <i>Environmental Science and Engineering</i> , 2009, , 491-504.	0.1	135
75	Road-transport emission projections to 2020 in European urban environments. <i>Atmospheric Environment</i> , 2008, 42, 7465-7475.	1.9	105
76	Differential mobility analyser transfer functions in scanning mode. <i>Journal of Aerosol Science</i> , 2008, 39, 227-243.	1.8	19
77	Theoretical Investigation of the Nucleation Mode Formation Downstream of Diesel After-treatment Devices. <i>Aerosol and Air Quality Research</i> , 2008, 8, 37-53.	0.9	19
78	Application of a Diffusion Charger for the Measurement of Particle Surface Concentration in Different Environments. <i>Aerosol Science and Technology</i> , 2007, 41, 571-580.	1.5	72
79	Diffusion broadening of DMA transfer functions. Numerical validation of Stolzenburg model. <i>Journal of Aerosol Science</i> , 2007, 38, 747-763.	1.8	17
80	Particle Concentration and Characteristics near a Major Freeway with Heavy-Duty Diesel Traffic. <i>Environmental Science & Technology</i> , 2007, 41, 2223-2230.	4.6	94
81	Effect of a DPF and Low Sulfur Lube Oil on PM Physicochemical Characteristics from a Euro 4 Light Duty Diesel Vehicle. , 2007, , .		5
82	Relationship between redox activity and chemical speciation of size-fractionated particulate matter. <i>Particle and Fibre Toxicology</i> , 2007, 4, 5.	2.8	207
83	Particle volatility in the vicinity of a freeway with heavy-duty diesel traffic. <i>Atmospheric Environment</i> , 2007, 41, 3479-3493.	1.9	45
84	Fine, ultrafine and nanoparticle trace element compositions near a major freeway with a high heavy-duty diesel fraction. <i>Atmospheric Environment</i> , 2007, 41, 5684-5696.	1.9	132
85	Daily variation in the properties of urban ultrafine aerosolâ€”Part I: Physical characterization and volatility. <i>Atmospheric Environment</i> , 2007, 41, 8633-8646.	1.9	55
86	Evaluation of the Dekati Mass Monitor for the Measurement of Exhaust Particle Mass Emissions. <i>Environmental Science & Technology</i> , 2006, 40, 4739-4745.	4.6	32
87	Diesel Particle Exhaust Emissions from Light Duty Vehicles and Heavy Duty Engines. , 2006, , .		14
88	Combination of aerosol instrument data into reduced variables to study the consistency of vehicle exhaust particle measurements. <i>Atmospheric Environment</i> , 2006, 40, 6032-6042.	1.9	9
89	Emission control options for power two wheelers in Europe. <i>Atmospheric Environment</i> , 2006, 40, 4547-4561.	1.9	39
90	Physicochemical and redox characteristics of particulate matter (PM) emitted from gasoline and diesel passenger cars. <i>Atmospheric Environment</i> , 2006, 40, 6988-7004.	1.9	193

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91	A wind-power fuel-cell hybrid system study on the non-interconnected Aegean islands grid. Renewable Energy, 2005, 30, 1471-1487.	4.3	76
92	Particulate matter regulation for two-stroke two wheelers: Necessity or haphazard legislation?. Atmospheric Environment, 2005, 39, 2483-2490.	1.9	37
93	Modelling of diesel exhaust aerosol during laboratory sampling. Atmospheric Environment, 2005, 39, 1335-1345.	1.9	73
94	Formation potential of vehicle exhaust nucleation mode particles on-road and in the laboratory. Atmospheric Environment, 2005, 39, 3191-3198.	1.9	140
95	Effects of a catalysed and an additized particle filter on the emissions of a diesel passenger car operating on low sulphur fuels. Atmospheric Environment, 2005, 39, 4925-4936.	1.9	33
96	Comparative Assessment of Two Different Sampling Systems for Particle Emission Type-Approval Measurements. , 2005, , .		13
97	Comparability of particle emission measurements between vehicle testing laboratories: a long way to go. Measurement Science and Technology, 2004, 15, 1855-1866.	1.4	15
98	Calibration and modelling of ejector dilutors for automotive exhaust sampling. Measurement Science and Technology, 2004, 15, 2199-2206.	1.4	42
99	Sampling Conditions for the Measurement of Nucleation Mode Particles in the Exhaust of a Diesel Vehicle. Aerosol Science and Technology, 2004, 38, 1149-1160.	1.5	110
100	Use of a corona charger for the characterisation of automotive exhaust aerosol. Journal of Aerosol Science, 2004, 35, 943-963.	1.8	53
101	New Directions: Emerging demands for vehicle particle emission characterisation. Atmospheric Environment, 2003, 37, 441-442.	1.9	15
102	Particulate matter mass measurements for low emitting diesel powered vehicles: what's next?. Progress in Energy and Combustion Science, 2003, 29, 635-672.	15.8	55
103	Particle Emissions Characteristics of Different On-Road Vehicles. , 2003, , .		9
104	Effects of low aromatics and low sulphur diesel fuels on particulate emissions. International Journal of Vehicle Design, 2001, 27, 31.	0.1	0
105	An empirical method for predicting exhaust emissions of regulated pollutants from future vehicle technologies. Atmospheric Environment, 2001, 35, 1985-1999.	1.9	19
106	The effect of age and technological change on motor vehicle emissions. Transportation Research, Part D: Transport and Environment, 2001, 6, 221-227.	3.2	70
107	Speed-dependent representative emission factors for catalyst passenger cars and influencing parameters. Atmospheric Environment, 2000, 34, 4611-4619.	1.9	86
108	Statistical Analysis of Diesel Fuel Effects on Particle Number and Mass Emissions. Environmental Science & Technology, 2000, 34, 5106-5114.	4.6	18

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109	Real Time Measurements of Diesel Particle Size Distribution with an Electrical Low Pressure Impactor. , 0, , .		87
110	Sampling Conditions Effects on Real-Time Particle Measurements from a Light Duty Vehicle. , 0, , .		5
111	Electrical Filter Stage for the ELPI. , 0, , .		54
112	Overview of the European "Particulates" Project on the Characterization of Exhaust Particulate Emissions from Road Vehicles: Results for Heavy Duty Engines. , 0, , .		39
113	Performance Evaluation of a Novel Sampling and Measurement System for Exhaust Particle Characterization. , 0, , .		63
114	Overview of the European "Particulates" Project on the Characterization of Exhaust Particulate Emissions From Road Vehicles: Results for Light-Duty Vehicles. , 0, , .		41
115	Effect of Lube Oil on the Physicochemical Characteristics of Particulate Matter Emitted from a Euro 4 Light Duty Diesel Vehicle. , 0, , .		4
116	Effect of Speed and Speed-Transition on the Formation of Nucleation Mode Particles from a Light Duty Diesel Vehicle. , 0, , .		33
117	A New Constant Dilution Ratio Concept for Vehicle and Engine Exhaust Particle Sampling. SAE International Journal of Engines, 0, 1, 491-500.	0.4	2
118	Evaluation of Biodiesel Blends on the Performance and Emissions of a Common-Rail Light-Duty Engine and Vehicle. , 0, , .		30
119	Exhaust Particle Sensor for OBD Application. , 0, , .		29
120	Applicability of the Pegasor Particle Sensor to Measure Particle Number, Mass and PM Emissions. , 0, , .		16
121	Application of the Pegasor Particle Sensor for the Measurement of Mass and Particle Number Emissions. SAE International Journal of Fuels and Lubricants, 0, 6, 521-531.	0.2	35
122	Use of a Catalytic Stripper as an Alternative to the Original PMP Measurement Protocol. SAE International Journal of Fuels and Lubricants, 0, 6, 532-541.	0.2	25
123	Characterization of Physical and Chemical Properties of Particulate Emissions of a Modern Diesel-Powered Tractor under Real Driving Conditions. , 0, , .		1