

Gasoline Particulate Filtersâ€™a Review

Emission Control Science and Technology

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Citation Report

#	ARTICLE	IF	CITATIONS
1	European Regulatory Framework and Particulate Matter Emissions of Gasoline Light-Duty Vehicles: A Review. <i>Catalysts</i> , 2019, 9, 586.	3.5	87
2	Particulate Emissions of Euro 4 Motorcycles and Sampling Considerations. <i>Atmosphere</i> , 2019, 10, 421.	2.3	15
3	Experimental Study on the Flow Field of Particles Deposited on a Gasoline Particulate Filter. <i>Energies</i> , 2019, 12, 2701.	3.1	5
4	Numerical and experimental studies of gas flow in a particulate filter. <i>Chemical Engineering Science</i> , 2019, 209, 115179.	3.8	15
5	Laboratory and On-Road Evaluation of a GPF-Equipped Gasoline Vehicle. <i>Catalysts</i> , 2019, 9, 678.	3.5	21
6	Regulating particle number measurements from the tailpipe of light-duty vehicles: The next step?. <i>Environmental Research</i> , 2019, 172, 1-9.	7.5	68
7	Late Fuel Post-Injection Influence on the Dynamics and Efficiency of Wall-Flow Particulate Filters Regeneration. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5384.	2.5	11
8	Particulate emissions from L-Category vehicles towards Euro 5. <i>Environmental Research</i> , 2020, 182, 109071.	7.5	19
9	Towards a fully predictive multi-scale pressure drop model for a wall-flow filter. <i>Chemical Engineering Research and Design</i> , 2020, 164, 261-280.	5.6	7
10	The scope for improving the efficiency and environmental impact of internal combustion engines. <i>Transportation Engineering</i> , 2020, 1, 100005.	4.2	229
11	Numerical investigation of the impact of washcoat distribution on the filtration performance of gasoline particulate filters. <i>Chemical Engineering Science</i> , 2020, 221, 115656.	3.8	20
12	Effects of Feed Gas Composition on Fresh and Aged TWC-Coated GPFs Loaded with Real Soot. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10790-10803.	3.7	8
13	Simulation of Flow Patterns in Particulate Filters with Various Viscous Models. <i>Emission Control Science and Technology</i> , 2020, 6, 178-185.	1.5	3
14	Impact of washcoat distribution on the catalytic performance of gasoline particulate filters as predicted by lattice Boltzmann simulations. <i>Chemical Engineering Journal</i> , 2021, 406, 127040.	12.7	19
15	Washcoating of catalytic particulate filters studied by time-resolved X-ray tomography. <i>Chemical Engineering Journal</i> , 2021, 409, 128057.	12.7	12
16	A 3D additive manufacturing approach for the validation of a numerical wall-scale model of catalytic particulate filters. <i>Chemical Engineering Journal</i> , 2021, 405, 126653.	12.7	5
17	Multiscale Modeling and Analysis of Pressure Drop Contributions in Catalytic Filters. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6512-6524.	3.7	9
18	Exhaust non-volatile particle filtration characteristics of three-way catalyst and influencing factors in a gasoline direct injection engine compared to gasoline particulate filter. <i>Fuel</i> , 2021, 290, 120065.	6.4	16

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19	Catalytic Materials for Gasoline Particulate Filters Soot Oxidation. <i>Catalysts</i> , 2021, 11, 890.	3.5	12
20	Isotopic study of the influence of oxygen interaction and surface species over different catalysts on the soot removal mechanism. <i>Catalysis Today</i> , 2022, 384-386, 33-44.	4.4	7
21	Effect of Extreme Temperatures and Driving Conditions on Gaseous Pollutants of a Euro 6d-Temp Gasoline Vehicle. <i>Atmosphere</i> , 2021, 12, 1011.	2.3	24
22	Modelling Investigation of the Thermal Treatment of Ash-Contaminated Particulate Filters. <i>Emission Control Science and Technology</i> , 0, , 1.	1.5	1
23	A Random Forest Algorithmic Approach to Predicting Particulate Emissions from a Highly Boosted GDI Engine. , 0, , .		5
24	Highly reactive and thermally stable Ag/YSZ catalysts with macroporous fiber-like morphology for soot combustion. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120271.	20.2	29
25	Brownian coagulation of particles in the gasoline engine exhaust system: Experimental measurement and Monte Carlo simulation. <i>Fuel</i> , 2021, 303, 121340.	6.4	3
26	On-road emissions of Euro 6d-TEMP passenger cars on Alpine routes during the winter period. <i>Environmental Science Atmospheres</i> , 2021, 1, 125-139.	2.4	10
27	Quantification of Non-Exhaust Particulate Matter Traffic Emissions and the Impact of COVID-19 Lockdown at London Marylebone Road. <i>Atmosphere</i> , 2021, 12, 190.	2.3	42
28	Review of Vehicle Engine Efficiency and Emissions. <i>SAE International Journal of Advances and Current Practices in Mobility</i> , 0, 1, 734-761.	2.0	82
29	Sensitivity Study on Thermal and Soot Oxidation Dynamics of Gasoline Particulate Filters. , 0, , .		3
30	Particulate Matter (PM) Emissions of Euro 5 and Euro 6 Vehicles Using Systems with Evaporation Tube or Catalytic Stripper and 23 nm or 10 nm Counters. , 0, , .		12
31	Gasoline Particulate Filter Accelerated Aging Processes - a Literature Review. <i>Acta Technica Jaurinensis</i> , 2020, 13, 281-294.	1.1	0
32	Towards a polydisperse packed bed filtration model as a surrogate model for particulate filters. <i>Journal of Aerosol Science</i> , 2022, 160, 105900.	3.8	2
33	A Review of Compressed Air Engine in the Vehicle Propulsion System. <i>Acta Mechanica Et Automatica</i> , 2021, 15, 215-226.	0.6	4
34	Global Kinetic Model of a Three-Way-Catalyst-Coated Gasoline Particulate Filter: Catalytic Effects of Soot Accumulation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 16899-16910.	3.7	2
35	Survey of strategies to reduce cold-start particulate, CO, NOx, and hydrocarbon emissions from direct-injection spark-ignition engines. <i>International Journal of Engine Research</i> , 2023, 24, 456-480.	2.3	10
36	Conference Report: YEuCat Better Together – Collaborative Catalysis in a Changing World. <i>ChemCatChem</i> , 2022, 14, .	3.7	0

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37	Catalytic effect of diesel PM derived ash on PM oxidation activity. <i>Chemosphere</i> , 2022, 299, 134445.	8.2	20
38	A Review of Emissions Control Technologies for On-Road Vehicles. <i>Energy, Environment, and Sustainability</i> , 2022, , 39-56.	1.0	2
39	State of the Art in Low-Temperature Combustion Technologies: HCCI, PCCI, and RCCI. <i>Energy, Environment, and Sustainability</i> , 2022, , 95-139.	1.0	1
40	Solvothermal synthesis of CeO ₂ •ZrO ₂ •M ₂ O ₃ (M = Tj ETQq1 1 0.784314 rgrBT /@overlock	3.8	3
41	Hybrid fictitious domain-immersed boundary solver coupled with discrete element method for simulations of flows laden with arbitrarily-shaped particles. <i>Computers and Fluids</i> , 2022, 244, 105538.	2.5	7
42	Emission Reduction of Traffic-Related Light-Absorbing Aerosols in a Megacity in China: A Case Study Via Tunnel Measurements. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
43	Assessment of particle and gaseous emissions and reductions from gasoline direct injection passenger car and light-duty truck during passive regeneration. <i>Science of the Total Environment</i> , 2022, 843, 156994.	8.0	6
44	Impact of diffusion limitations inside the wall of catalytic filters on conversion of gaseous pollutants at increased flow rates. <i>Chemical Engineering Science</i> , 2022, 260, 117876.	3.8	2
45	Sub-23 particle control strategies towards Euro VII HD SI natural gas engines. <i>Transportation Engineering</i> , 2022, 10, 100132.	4.2	5
46	Tunnel measurements reveal significant reduction in traffic-related light-absorbing aerosol emissions in China. <i>Science of the Total Environment</i> , 2022, , 159212.	8.0	0
47	Characterization of a Lightly Loaded Underfloor Catalyzed Gasoline Particulate Filter in a Turbocharged Light Duty Truck. <i>Journal of Engineering for Gas Turbines and Power</i> , 2022, , .	1.1	0
48	Ultra-Fine Particle Emissions Characterization and Reduction Technologies in a NG Heavy Duty Engine. <i>Atmosphere</i> , 2022, 13, 1919.	2.3	4
49	Engine, aftertreatment, fuel quality and non-tailpipe achievements to lower gasoline vehicle PM emissions: Literature review and future prospects. <i>Science of the Total Environment</i> , 2023, 866, 161225.	8.0	18
50	Experimental investigation on particulate filters for heavy-duty natural gas engines: Potentialities toward EURO VII regulation. <i>Journal of Environmental Management</i> , 2023, 331, 117204.	7.8	6
51	Particle Number in Small SI Engine Using Gasoline and LPG as Fuel for Non-road Vehicle. <i>International Journal of Automotive Technology</i> , 2022, 23, 1547-1554.	1.4	1
52	An isotopic study on oxygen uptake/exchange over ceria-praseodymia mixed oxides with pulse experiments using 18O ₂ : Implications on soot combustion activities in the GDI (Gasoline Direct) Tj ETQq1 1 0.784314 rgrBT /@overlock	3.8	3
53	Measurement of Porosity in Three-way Catalyst Particles Membrane Filter using Electron Microscopy Image Analysis. <i>International Journal of Automotive Engineering</i> , 2023, 14, 27-34.	0.5	2
54	Effective modeling of coupled reaction and transport inside the catalytic filter wall. <i>Chemical Engineering Journal</i> , 2023, 461, 141847.	12.7	2

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55	Characterization of Soot Loading and Filtration Efficiency of a Gasoline Particulate Filter with Photoacoustic Sensor and Particle Number Counting Systems. <i>Atmosphere</i> , 2023, 14, 476.	2.3	1
56	Simulating Catalytic Reaction and Soot Oxidation in Coated Particulate Filters: a Simplified Modelling Framework Including Diffusion Effects. <i>Emission Control Science and Technology</i> , 0, , .	1.5	0
57	On-line monitoring of carbon nanostructure and soot reactivity in engine exhaust by dual-pulse laser-induced incandescence. <i>Combustion and Flame</i> , 2023, 254, 112850.	5.2	1
58	Impact of Modern Vehicular Technologies and Emission Regulations on Improving Global Air Quality. <i>Atmosphere</i> , 2023, 14, 1164.	2.3	3
59	Effect of dopants on soot oxidation over doped Ag/ZrO ₂ catalysts for catalyzed gasoline particulate filter. <i>Catalysis Communications</i> , 2023, 182, 106744.	3.3	0
60	Effect of starch pore formers with different particle sizes on cordierite porous ceramics. <i>Journal of Physics: Conference Series</i> , 2023, 2557, 012092.	0.4	0
61	Highlights on the key roles of interfaces between CeO ₂ -based oxide and perovskite (LaMnO ₃ /LaFeO ₃) in creating active oxygen species for soot oxidation. <i>Fuel</i> , 2024, 356, 129444.	6.4	1
62	Particle accumulation model in 3D reconstructed wall of a catalytic filter validated with time-resolved X-ray tomography. <i>Fuel</i> , 2024, 356, 129603.	6.4	0
63	Ion density-enhanced electrostatic precipitation using high voltage nanosecond pulses. <i>Environmental Science Advances</i> , 0, , .	2.7	0
64	Soot Monitoring of Gasoline Particulate Filters Using a Radio-Frequency-Based Sensor. <i>Sensors</i> , 2023, 23, 7861.	3.8	1
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67	Diesel Particle Filter Requirements for Euro 7 Technology Continuously Regenerating Heavy-Duty Applications. <i>Vehicles</i> , 2023, 5, 1634-1655.	3.1	0
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69	Effect of High-Energy Milling on Ceria-Zirconia’s Redox Properties. <i>Catalysts</i> , 2023, 13, 1511.	3.5	0
70	Combined Ash and Soot Monitoring for Gasoline Particulate Filters Using a Radio-Frequency-Based Sensor. <i>Emission Control Science and Technology</i> , 0, , .	1.5	0
71	Emissions from Light-Duty Vehicles – From Statistics to Emission Regulations and Vehicle Testing in the European Union. <i>Energies</i> , 2024, 17, 209.	3.1	0
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