William F Northrop

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Solid particulate mass and number from ducted fuel injection in an optically accessible diesel engine in skip-fired operation. International Journal of Engine Research, 2022, 23, 1226-1236.	2.3	7
2	Neural Network-Based Electric Vehicle Range Prediction for Smart Charging Optimization. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, .	1.6	8
3	Impacts of engine lubrication oil-derived ash on soot oxidative reactivity on a catalytic gasoline particulate filter. Journal of Aerosol Science, 2022, 162, 105960.	3.8	2
4	Synthesis gas as a fuel for internal combustion engines in transportation. Progress in Energy and Combustion Science, 2022, 90, 100995.	31.2	44
5	Bowl piston geometry as an alternative to enlarged crevice pistons for rapid compression machines. Proceedings of the Combustion Institute, 2021, 38, 5723-5731.	3.9	5
6	A non-premixed reactive volatilization reactor for catalytic partial oxidation of low volatility fuels at a short contact time. Reaction Chemistry and Engineering, 2021, 6, 662-671.	3.7	1
7	Surveying the applicability of energy recovery technologies for waste treatment: Case study for anaerobic wastewater treatment in Minnesota. Journal of the Air and Waste Management Association, 2021, 71, 974-988.	1.9	2
8	Influence of Fuel Properties on Gasoline Direct Injection Particulate Matter Emissions Over First 200 s of World-Harmonized Light-Duty Test Procedure Using an Engine Dynamometer and Novel "Virtual Drivetrain―Software. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	3
9	Non-premixed reactive volatilization reactor for catalytic reforming of ethanol and E85. Results in Engineering, 2021, 11, 100247.	5.1	4
10	Thermochemical Recuperation to Enable Efficient Ammonia-Diesel Dual-Fuel Combustion in a Compression Ignition Engine. Energies, 2021, 14, 7540.	3.1	19
11	Correlation of nanoparticle size distribution features to spatiotemporal flame luminosity in gasoline direct injection engines. International Journal of Engine Research, 2020, 21, 1107-1117.	2.3	14
12	Risk-aware Energy Management of Extended Range Electric Delivery Vehicles with Implicit Quantile Network. , 2020, , .		2
13	Dicarboxylic acid emissions from a GDI engine equipped with a catalytic gasoline particulate filter. Fuel, 2020, 275, 117940.	6.4	7
14	Physics-guided Energy-efficient Path Selection Using On-board Diagnostics Data. ACM/IMS Transactions on Data Science, 2020, 1, 1-28.	2.0	5
15	Uncertainty-aware Energy Management of Extended Range Electric Delivery Vehicles with Bayesian Ensemble. , 2020, , .		1
16	Formal methods approach to the charging facility location problem for battery electric vehicles. , 2020, , .		2
17	Hydrous Ethanol Steam Reforming and Thermochemical Recuperation to Improve Dual-Fuel Diesel Engine Emissions and Efficiency. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	5

18 Trajectory-aware Lowest-cost Path Selection. , 2019, , .

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19	Design and Control of a Controlled Trajectory Rapid Compression and Expansion Machine. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1711-1722.	5.8	7
20	Impact of Time-Varying Passenger Loading on Conventional and Electrified Transit Bus Energy Consumption. Transportation Research Record, 2019, 2673, 632-640.	1.9	12
21	In-cylinder flame luminosity measured from a stratified lean gasoline direct injection engine. Results in Engineering, 2019, 1, 100005.	5.1	5
22	A Deep Reinforcement Learning Framework for Energy Management of Extended Range Electric Delivery Vehicles. , 2019, , .		11
23	Actor-Critic based Deep Reinforcement Learning Framework for Energy Management of Extended Range Electric Delivery Vehicles. , 2019, , .		14
24	Uncertainty Estimation with Distributional Reinforcement Learning for Applications in Intelligent Transportation Systems: A Case Study. , 2019, , .		4
25	Emissions factors from distributed, small-scale biomass gasification power generation: Comparison to open burning and large-scale biomass power generation. Atmospheric Environment, 2019, 200, 221-227.	4.1	23
26	Thermochemical and Sensible Energy Recuperation Using Thermally-Integrated Reactor and Diesel-Ammonia Dual Fueling Strategy. , 2019, , .		3
27	Physics-guided energy-efficient path selection. , 2018, , .		6
28	Considerations in Using Photometer Instruments for Measuring Total Particulate Matter Mass Concentration in Diesel Engine Exhaust. Journal of Engineering for Gas Turbines and Power, 2018, 140,	1.1	2
29	Microglial Immune Response to Low Concentrations of Combustion-Generated Nanoparticles: An In Vitro Model of Brain Health. Nanomaterials, 2018, 8, 155.	4.1	6
30	Hydrous Ethanol Steam Reforming and Thermochemical Recuperation to Improve Dual-Fuel Diesel Engine Emissions and Efficiency. , 2018, , .		2
31	Emissions From a Diesel Engine Operating in a Dual-Fuel Mode Using Port-Fuel Injection of Heated Hydrous Ethanol. Journal of Energy Resources Technology, Transactions of the ASME, 2017, 139, .	2.3	18
32	Discovering non-compliant window co-occurrence patterns. GeoInformatica, 2017, 21, 829-866.	2.7	3
33	Dilution Sensitivity of Particulate Matter Emissions From Reactivity-Controlled Compression Ignition Combustion. Journal of Energy Resources Technology, Transactions of the ASME, 2017, 139, .	2.3	12
34	Efficacy of Add-On Hydrous Ethanol Dual Fuel Systems to Reduce NOx Emissions From Diesel Engines. Journal of Energy Resources Technology, Transactions of the ASME, 2017, 139, .	2.3	13
35	Dicarboxylic Acid Emissions from Aftertreatment Equipped Diesel Engines. Environmental Science & Technology, 2017, 51, 13036-13043.	10.0	12
36	Tailoring Charge Reactivity Using In-Cylinder Generated Reformate for Gasoline Compression Ignition Strategies. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	7

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37	Real-World NO X Emissions of Transit Buses Equipped with Diesel Exhaust Aftertreatment Systems. Emission Control Science and Technology, 2017, 3, 153-160.	1.5	7
38	Evolution and current understanding of physicochemical characterization of particulate matter from reactivity controlled compression ignition combustion on a multicylinder light-duty engine. International Journal of Engine Research, 2017, 18, 505-519.	2.3	33
39	Exploration of Dual Fuel Diesel Engine Operation with On-Board Fuel Reforming. , 2017, , .		11
40	Investigation of Species from Negative Valve Overlap Reforming Using a Stochastic Reactor Model. , 2017, , .		4
41	Markov chain solution of photon multiple scattering through turbid slabs. Optics Express, 2016, 24, 26942.	3.4	8
42	Effects of Variable Piston Trajectory on Indicated Efficiency Using a Quasi-Dimensional Spark-Ignition Model and Genetic Algorithm Optimization. , 2016, , .		1
43	Efficacy of Add-On Hydrous Ethanol Dual Fuel Systems to Reduce NOx Emissions From Diesel Engines. , 2016, , .		2
44	Tailoring Charge Reactivity Using In-Cylinder Generated Reformate for Gasoline Compression Ignition Strategies. , 2016, , .		4
45	Volatility characterization of nanoparticles from single and dual-fuel low temperature combustion in compression ignition engines. Aerosol Science and Technology, 2016, 50, 436-447.	3.1	18
46	Lagrangian Hotspots of In-Use NO _X Emissions from Transit Buses. Environmental Science & Technology, 2016, 50, 5750-5756.	10.0	14
47	Novel Vehicle Mass-Based Automated Passenger Counter for Transit Applications. Transportation Research Record, 2016, 2563, 37-43.	1.9	6
48	Detailed speciation and reactivity characterization of fuel-specific in-cylinder reforming products and the associated impact on engine performance. Fuel, 2016, 185, 348-361.	6.4	32
49	Fractionation of engine exhaust hydrocarbons using flame ionization detection with variable temperature sample conditioner. International Journal of Engine Research, 2016, 17, 235-245.	2.3	1
50	A Markov Chain-based quantitative study of angular distribution of photons through turbid slabs via isotropic light scattering. Computer Physics Communications, 2016, 201, 77-84.	7.5	8
51	Emissions From a Diesel Engine Operating in a Dual-Fuel Mode Using Port-Fuel Injection of Heated Hydrous Ethanol. , 2015, , .		5
52	Future connected vehicles. , 2015, , .		8
53	Dilution Sensitivity of Particulate Matter Emissions From Reactivity Controlled Compression Ignition Combustion. , 2015, , .		1
54	Integrated Mechanical and Thermodynamic Optimization of an Engine Linkage Using a Multi-Objective Genetic Algorithm. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	5

#	Article	IF	CITATIONS
55	An Experimental Investigation of Reactivity-Controlled Compression Ignition Combustion in a Single-Cylinder Diesel Engine Using Hydrous Ethanol. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	25
56	Optimization of reactivity-controlled compression ignition combustion fueled with diesel and hydrous ethanol using response surface methodology. Fuel, 2015, 160, 446-457.	6.4	44
57	Energy, carbon dioxide and water use implications of hydrous ethanol production. Energy Conversion and Management, 2015, 105, 900-907.	9.2	43
58	Exploration of Semi-Volatile Particulate Matter Emissions from Low Temperature Combustion in a Light-Duty Diesel Engine. SAE International Journal of Engines, 2014, 7, 852-859.	0.4	5
59	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, .	1.1	22
60	Gas and Particle Emissions From a Diesel Engine Operating in a Dual-Fuel Mode Using High Water Content Hydrous Ethanol. , 2014, , .		3
61	Particulate and Aromatic Hydrocarbon Emissions from a Small-Scale Biomass Gasifier–Generator System. Energy & Fuels, 2014, 28, 3255-3261.	5.1	8
62	Combustion Phasing Effect on Cycle Efficiency of a Diesel Engine Using Advanced Gasoline Fumigation. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	13
63	An Experimental Investigation of Reactivity-Controlled Compression Ignition Combustion in a Single-Cylinder Diesel Engine Using Hydrous Ethanol. , 2013, , .		8
64	Gaseous and Particulate Emissions from Diesel Engines at Idle and under Load: Comparison of Biodiesel Blend and Ultralow Sulfur Diesel Fuels. Energy & Fuels, 2012, 26, 6737-6748.	5.1	37
65	Combustion Phasing Effect on Cycle Efficiency of a Diesel Engine Using Advanced Gasoline Fumigation. , 2012, , .		0
66	Investigation of the Load Limits and Emissions of a Naturally-Aspirated Direct-Injection Diesel Engine. SAE International Journal of Engines, 2012, 5, 493-503.	0.4	1
67	Thermally integrated fuel processor design for fuel cell applications. International Journal of Hydrogen Energy, 2012, 37, 3447-3458.	7.1	12
68	Condensational Growth of Particulate Matter from Partially Premixed Low Temperature Combustion of Biodiesel in a Compression Ignition Engine. Aerosol Science and Technology, 2011, 45, 26-36.	3.1	32
69	Comparison of Filter Smoke Number and Elemental Carbon Mass From Partially Premixed Low Temperature Combustion in a Direct-Injection Diesel Engine. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	1.1	38
70	Investigation of Hydrogen Emissions in Partially Premixed Diesel Combustion. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	2
71	Comparison of Filter Smoke Number and Elemental Carbon Mass From Partially Premixed Low Temperature Combustion in a Direct Injection Diesel Engine. , 2010, , .		3

72 Investigation of Hydrogen Emissions in Partially Premixed Diesel Combustion. , 2009, , .

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73	Deactivation of a diesel oxidation catalyst due to exhaust species from rich premixed compression ignition combustion in a light-duty diesel engine. International Journal of Engine Research, 2007, 8, 487-498.	2.3	17
74	Premixed Low Temperature Combustion of Biodiesel and Blends in a High Speed Compression Ignition Engine. SAE International Journal of Fuels and Lubricants, 0, 2, 28-40.	0.2	55
75	Evaluation of Diesel Oxidation Catalyst Conversion of Hydrocarbons and Particulate Matter from Premixed Low Temperature Combustion of Biodiesel. SAE International Journal of Engines, 0, 4, 1431-1444.	0.4	11
76	Fuel Effects on Combustion and Emissions of a Direct-Injection Diesel Engine Operating at Moderate to High Engine Speed and Load. , 0, , .		5
77	Efficacy of In-Cylinder Control of Particulate Emissions to Meet Current and Future Regulatory Standards. , 0, , .		6
78	Parametric 1-D Modeling Study of a 5-Stroke Spark-Ignition Engine Concept for Increasing Engine Thermal Efficiency. , 0, , .		5
79	Analysis of Thermal and Chemical Effects on Negative Valve Overlap Period Energy Recovery for Low-Temperature Gasoline Combustion. SAE International Journal of Engines, 0, 8, 2227-2239.	0.4	24
80	Investigation of Negative Valve Overlap Reforming Products Using Gas Sampling and Single-Zone Modeling. SAE International Journal of Engines, 0, 8, 747-757.	0.4	23
81	Effects of Aftertreatment on Semi-Volatile Particulate Matter Emissions from Low Temperature Combustion in a Light-Duty Diesel Engine. SAE International Journal of Engines, 0, 8, 791-796.	0.4	5
82	Investigation of Fuel Effects on In-Cylinder Reforming Chemistry Using Gas Chromatography. SAE International Journal of Engines, 0, 9, 964-978.	0.4	15
83	Particle Emissions from Light-Duty Vehicles during Cold-Cold Start. SAE International Journal of Engines, 0, 9, 1775-1785.	0.4	56
84	Energy Analysis of Low-Load Low-Temperature Gasoline Combustion with Auxiliary-Fueled Negative Valve Overlap. SAE International Journal of Engines, 0, 10, 1238-1255.	0.4	10
85	Comparison and Optimization of Fourier Transform Infrared Spectroscopy and Gas Chromatography-Mass Spectroscopy for Speciating Unburned Hydrocarbons from Diesel Low Temperature Combustion. , 0, , .		1
86	Demonstration of Single-Fuel Reactivity Controlled Compression Ignition Using Reformed Exhaust Gas Recirculation. , 0, , .		9
87	Solid Particle Number and Mass Emissions from Lean and Stoichiometric Gasoline Direct Injection Engine Operation. , 0, , .		16
88	Effect of Piston Geometry on In-Cylinder Fluid Mechanics, Heat Transfer, and Ignition Delay in Rapid Compression Machines. , 0, , .		0
89	Prediction of NO _x Emissions from Compression Ignition Engines Using Ensemble Learning-Based Models with Physical Interpretability. , 0, , .		4
90	Effects of Fuel Properties on Particle Number and Particle Mass Emissions from Lean and		9

Stoichiometric Gasoline Direct Injection Engine Operation. , 0, , .

#	Article	IF	CITATIONS
91	Path-Averaged Temperature Measurement in a Motored Engine Cylinder Using Ultrasonic Thermometry. , 0, , .		1
92	Reinforcement Learning based Energy Management of Multi-Mode Plug-in Hybrid Electric Vehicles for Commuter Route. , 0, , .		1
93	Data-Driven Framework for Fuel Efficiency Improvement in Extended Range Electric Vehicle Used in Package Delivery Applications. , 0, , .		0