

Yanfei Li

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,984
citations

147801

31
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182427

51
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82
all docs

82
docs citations

82
times ranked

1680
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Characterizing combustion performance and PM emissions of an aviation compression ignition engine by fueling RP-3 kerosene and RP-3/pentanol blends. <i>International Journal of Engine Research</i> , 2023, 24, 1312-1326. | 2.3 | 5 |
| 2 | Effects of component proportions on multi-jet instant expansion of binary solutions under flash boiling conditions. <i>Fuel</i> , 2022, 308, 122018. | 6.4 | 4 |
| 3 | Macroscopic spray characteristics of iso-octane, ethanol, gasoline and methanol from a multi-hole injector under flash boiling conditions. <i>Fuel</i> , 2022, 307, 121820. | 6.4 | 18 |
| 4 | Transferable representation modelling for real-time energy management of the plug-in hybrid vehicle based on k-fold fuzzy learning and Gaussian process regression. <i>Applied Energy</i> , 2022, 305, 117853. | 10.1 | 42 |
| 5 | Combustion and emission characteristics of a compression ignition engine burning a wide range of conventional hydrocarbon and alternative fuels. <i>Energy</i> , 2022, 250, 123717. | 8.8 | 13 |
| 6 | Modified Particle Swarm Optimization With Chaotic Attraction Strategy for Modular Design of Hybrid Powertrains. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 616-625. | 7.8 | 19 |
| 7 | Accelerating Laminar Flame Speed of Hydrous Ethanol via Oxygen-Rich Combustion. <i>Bioenergy Research</i> , 2021, 14, 634-644. | 3.9 | 2 |
| 8 | Optimization of piston bowl and valve system in compression ignition engine fueled with gasoline/diesel/polyoxymethylene dimethyl ethers for high efficiency. <i>International Journal of Engine Research</i> , 2021, 22, 468-478. | 2.3 | 9 |
| 9 | Knowledge Implementation and Transfer With an Adaptive Learning Network for Real-Time Power Management of the Plug-in Hybrid Vehicle. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 5298-5308. | 11.3 | 52 |
| 10 | Combustion characteristics and engine performance of 2-methylfuran compared to gasoline and ethanol in a direct injection spark ignition engine. <i>Fuel</i> , 2021, 299, 120825. | 6.4 | 6 |
| 11 | Transferable Representation Model Driven by Gaussian Process Regression for Real-time Energy Management of Plug-in Hybrid Vehicles. , 2021, , . | | 0 |
| 12 | An experimental study on particle evolution in the exhaust gas of a direct injection SI engine. <i>Applied Energy</i> , 2020, 260, 114220. | 10.1 | 11 |
| 13 | The effect of bubbles on primary breakup of diesel spray. <i>Fuel</i> , 2020, 263, 116664. | 6.4 | 7 |
| 14 | Nucleation mode particle evolution in a gasoline direct injection engine with/without a three-way catalyst converter. <i>Applied Energy</i> , 2020, 259, 114211. | 10.1 | 22 |
| 15 | Explosion characteristics of hydrous bio-ethanol in oxygen-enriched air. <i>Fuel</i> , 2020, 271, 117604. | 6.4 | 11 |
| 16 | Impact of injector tip deposits on gasoline direct injection engine combustion, fuel economy and emissions. <i>Applied Energy</i> , 2020, 262, 114538. | 10.1 | 23 |
| 17 | An experimental investigation into combustion characteristics of HVO compared with TME and ULSD at varied blend ratios. <i>Fuel</i> , 2019, 255, 115757. | 6.4 | 22 |
| 18 | Auto-ignition characteristics of end-gas in a rapid compression machine under super-knock conditions. <i>Combustion and Flame</i> , 2019, 205, 378-388. | 5.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Interaction between under-expanded flashing jets: A numerical study. <i>International Journal of Heat and Mass Transfer</i> , 2019, 137, 990-1000. | 4.8 | 32 |
| 20 | Methanol as an octane booster for gasoline fuels. <i>Fuel</i> , 2019, 248, 76-84. | 6.4 | 47 |
| 21 | Spray morphology transformation of propane, n-hexane and iso-octane under flash-boiling conditions. <i>Fuel</i> , 2019, 236, 677-685. | 6.4 | 55 |
| 22 | Microscopic study on the mechanisms for formation of the initial spray morphology. <i>Fuel</i> , 2019, 235, 715-722. | 6.4 | 18 |
| 23 | Recent progress in the application in compression ignition engines and the synthesis technologies of polyoxymethylene dimethyl ethers. <i>Applied Energy</i> , 2019, 233-234, 599-611. | 10.1 | 87 |
| 24 | Numerical investigation on flashing jet behaviors of single-hole GDI injector. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 50-59. | 4.8 | 42 |
| 25 | Radial expansion of flash boiling jet and its relationship with spray collapse in gasoline direct injection engine. <i>Applied Thermal Engineering</i> , 2019, 146, 515-525. | 6.0 | 50 |
| 26 | Measurement of soot distribution in two cross-sections in a gasoline direct injection engine using laser-induced incandescence with the laser extinction method. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 211-223. | 1.9 | 2 |
| 27 | An exploration of utilizing low-pressure diesel injection for natural gas dual-fuel low-temperature combustion. <i>Energy</i> , 2018, 153, 248-255. | 8.8 | 14 |
| 28 | Characterizing external flashing jet from single-hole GDI injector. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 924-932. | 4.8 | 52 |
| 29 | An exploration on collapse mechanism of multi-jet flash-boiling sprays. <i>Applied Thermal Engineering</i> , 2018, 134, 20-28. | 6.0 | 66 |
| 30 | A chemical kinetic mechanism for the low- and intermediate-temperature combustion of Polyoxymethylene Dimethyl Ether 3 (PODE3). <i>Fuel</i> , 2018, 212, 223-235. | 6.4 | 100 |
| 31 | Morphology analysis on multi-jet flash-boiling sprays under wide ambient pressures. <i>Fuel</i> , 2018, 211, 38-47. | 6.4 | 67 |
| 32 | Microscopic investigation of near-field spray characteristics of 2-methylfuran, ethanol and isooctane under flash boiling conditions. <i>Fuel</i> , 2018, 215, 142-152. | 6.4 | 21 |
| 33 | Experimental and numerical investigation on H ₂ /CO formation and their effects on combustion characteristics in a natural gas SI engine. <i>Energy</i> , 2018, 143, 597-605. | 8.8 | 10 |
| 34 | Microscopic and macroscopic characterization of spray impingement under flash boiling conditions with the application of split injection strategy. <i>Fuel</i> , 2018, 212, 315-325. | 6.4 | 39 |
| 35 | MACROSCOPIC AND MICROSCOPIC CHARACTERISTICS OF GASOLINE AND BUTANOL SPRAY ATOMIZATION UNDER ELEVATED AMBIENT PRESSURES. <i>Atomization and Sprays</i> , 2018, 28, 779-795. | 0.8 | 11 |
| 36 | Experimental Study of Lean Mixture Combustion at Ultra-High Compression Ratios in a Rapid Compression Machine. , 2018, , . | | 1 |

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|----|---|------|-----------|
| 37 | Characteristics of trans-critical propane spray discharged from multi-hole GDI injector. <i>Experimental Thermal and Fluid Science</i> , 2018, 99, 446-457. | 2.7 | 19 |
| 38 | Nozzle internal flow and spray primary breakup with the application of closely coupled split injection strategy. <i>Fuel</i> , 2018, 228, 187-196. | 6.4 | 32 |
| 39 | Recent Progress in Automotive Gasoline Direct Injection Engine Technology. <i>Automotive Innovation</i> , 2018, 1, 95-113. | 5.1 | 50 |
| 40 | Numerical Investigation on the Effect of Fuel Temperature on Spray Collapse and Mixture Formation Characteristics in GDI Engines. , 2018, , . | | 7 |
| 41 | Combustion and Emission Characteristics of Polyoxymethylene Dimethyl Ethers (PODE)/ Wide Distillation Fuel (WDF) Blends in Diesel Engine. , 2018, , . | | 2 |
| 42 | Dynamic spray development of 2-methylfuran compared to ethanol and isooctane under ultra-high injection pressure. <i>Fuel</i> , 2018, 234, 581-591. | 6.4 | 10 |
| 43 | Study on combustion and emission characteristics of Polyoxymethylene Dimethyl Ethers/diesel blends in light-duty and heavy-duty diesel engines. <i>Applied Energy</i> , 2017, 185, 1393-1402. | 10.1 | 157 |
| 44 | Effect of flash boiling on microscopic and macroscopic spray characteristics in optical GDI engine. <i>Fuel</i> , 2017, 190, 79-89. | 6.4 | 100 |
| 45 | Hydrogen formation from methane rich combustion under high pressure and high temperature conditions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14301-14311. | 7.1 | 18 |
| 46 | Comparison of spray collapses at elevated ambient pressure and flash boiling conditions using multi-hole gasoline direct injector. <i>Fuel</i> , 2017, 199, 125-134. | 6.4 | 95 |
| 47 | Sensitivity analysis of fuel types and operational parameters on the particulate matter emissions from an aviation piston engine burning heavy fuels. <i>Fuel</i> , 2017, 202, 520-528. | 6.4 | 42 |
| 48 | Microscopic level study on the spray impingement process and characteristics. <i>Applied Energy</i> , 2017, 197, 114-123. | 10.1 | 36 |
| 49 | Experimental investigation on the macroscopic and microscopic spray characteristics of diesel fuel. <i>Fuel</i> , 2017, 199, 478-487. | 6.4 | 35 |
| 50 | Combustion and emission characteristics of diesel engine fueled with biodiesel/PODE blends. <i>Applied Energy</i> , 2017, 206, 425-431. | 10.1 | 127 |
| 51 | Combustion and emission characteristics of a direct injection diesel engine fueled with biodiesel and PODE/biodiesel fuel blends. <i>Fuel</i> , 2017, 209, 62-68. | 6.4 | 125 |
| 52 | Comparative study of combustion and emissions of kerosene (RP-3), kerosene-pentanol blends and diesel in a compression ignition engine. <i>Applied Energy</i> , 2017, 203, 91-100. | 10.1 | 93 |
| 53 | An experimental investigation on thermal efficiency of a compression ignition engine fueled with five gasoline-like fuels. <i>Fuel</i> , 2017, 207, 56-63. | 6.4 | 22 |
| 54 | Influence of deposit on spray behaviour under flash boiling condition with the application of closely coupled split injection strategy. <i>Fuel</i> , 2017, 190, 67-78. | 6.4 | 29 |

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|----|---|-----|-----------|
| 55 | QUANTIFYING THE EFFECTS OF FUEL COMPOSITIONS AND PROCESS VARIABLES ON PLANAR SURFACE AREA AND SPRAY NONUNIFORMITY VIA COMBINED MIXTURE-PROCESS DESIGN OF EXPERIMENT. <i>Atomization and Sprays</i> , 2017, 27, 707-722. | 0.8 | 2 |
| 56 | Experimental Study on Diesel Spray Characteristics Using Different Ambient Gases. , 2016, , . | | 1 |
| 57 | Study of Near Nozzle Spray Characteristics of Ethanol under Different Saturation Ratios. , 2016, , . | | 0 |
| 58 | Droplet dynamics of DI spray from sub-atmospheric to elevated ambient pressure. <i>Fuel</i> , 2016, 179, 25-35. | 6.4 | 45 |
| 59 | Near-nozzle microscopic characterization of diesel spray under cold start conditions with split injection strategy. <i>Fuel</i> , 2016, 181, 366-375. | 6.4 | 11 |
| 60 | Exploiting new combustion regime using multiple premixed compression ignition (MPCI) fueled with gasoline/diesel/PODE (GDP). <i>Fuel</i> , 2016, 186, 639-647. | 6.4 | 54 |
| 61 | Optical study of throttleless and EGR-controlled stoichiometric dual-fuel compression ignition combustion. <i>Fuel</i> , 2016, 182, 272-283. | 6.4 | 22 |
| 62 | Experimental study on primary breakup of diesel spray under cold start conditions. <i>Fuel</i> , 2016, 183, 617-626. | 6.4 | 32 |
| 63 | Homogeneous charge compression ignition (HCCI) combustion of polyoxymethylene dimethyl ethers (PODE). <i>Fuel</i> , 2016, 183, 206-213. | 6.4 | 132 |
| 64 | Initial dynamic development of fuel spray analyzed by ultra high speed imaging. <i>Fuel</i> , 2016, 169, 99-110. | 6.4 | 28 |
| 65 | Improvement of emission characteristics and thermal efficiency in diesel engines by fueling gasoline/diesel/PODEn blends. <i>Energy</i> , 2016, 97, 105-112. | 8.8 | 126 |
| 66 | Experimental study of temporal evolution of initial stage diesel spray under varied conditions. <i>Fuel</i> , 2016, 171, 44-53. | 6.4 | 29 |
| 67 | An Experimental Study on the Effects of Split Injection in Stoichiometric Dual-Fuel Compression Ignition (SDCI) Combustion. , 2015, , . | | 3 |
| 68 | Combustion and emissions of compression ignition in a direct injection diesel engine fueled with pentanol. <i>Energy</i> , 2015, 80, 575-581. | 8.8 | 120 |
| 69 | Performance, combustion and emission characteristics of a diesel engine fueled with polyoxymethylene dimethyl ethers (PODE3-4)/ diesel blends. <i>Energy</i> , 2015, 88, 793-800. | 8.8 | 144 |
| 70 | Combustion and emission characteristics of direct injection compression ignition engine fueled with Full Distillation Fuel (FDF). <i>Fuel</i> , 2015, 140, 561-567. | 6.4 | 22 |
| 71 | Effects of gasoline research octane number on premixed low-temperature combustion of wide distillation fuel by gasoline/diesel blend. <i>Fuel</i> , 2014, 134, 381-388. | 6.4 | 53 |
| 72 | Characterisation of waste derived intermediate pyrolysis oils for use as diesel engine fuels. <i>Fuel</i> , 2013, 103, 247-257. | 6.4 | 87 |

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|----|---|-----|-----------|
| 73 | Comparative Experimental Study on Microscopic Spray Characteristics of RME, GTL and Diesel. , 0, , . | | 5 |
| 74 | Spray Characteristics Study of DMF Using Phase Doppler Particle Analyzer. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 3, 948-958. | 0.4 | 35 |
| 75 | Cold and Warm Start Characteristics using HVO and RME Blends in a V6 Diesel Engine. SAE International Journal of Fuels and Lubricants, 0, 6, 478-485. | 0.2 | 12 |
| 76 | Experimental Study of Effect of Nozzle Diameter on Near-Field Spray Behavior of Diesel Sprays in Non-Evaporating Conditions. , 0, , . | | 2 |
| 77 | High Speed Imaging Study on the Spray Characteristics of Dieseline at Elevated Temperatures and Back Pressures. SAE International Journal of Fuels and Lubricants, 0, 7, 159-166. | 0.2 | 4 |
| 78 | A Turbulence and Cavitation Induced Breakup Model for Fuel Spray Modeling. , 0, , . | | 1 |
| 79 | The Comparative Study of Gasoline and n-butanol on Spray Characteristics. , 0, , . | | 10 |
| 80 | Development of a Turbulence-induced Breakup Model for Gasoline Spray Simulation. , 0, , . | | 3 |
| 81 | Comparative Study on Gasoline HCCI and DICI Combustion in High Load Range with High Compression Ratio for Passenger Cars Application. SAE International Journal of Fuels and Lubricants, 0, 10, . | 0.2 | 7 |
| 82 | Characterizing Propane Flash Boiling Spray from Multi-Hole GDI Injector. , 0, , . | | 7 |