Xuesong Li

List of Publications by Year in descending order

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45 papers	1,675 citations	304743 22 h-index	345221 36 g-index
45 all docs	45 docs citations	45 times ranked	591 citing authors

#	Article	IF	Citations
1	Dynamic behavior and mechanism analysis of tip wetting process under flash boiling conditions. Fuel, 2022, 307, 121773.	6.4	12
2	Experimental investigations of the phase change impacts on flash boiling spray propagations and impingements. Fuel, 2022, 312, 122871.	6.4	16
3	Tip-Wetting Film Analysis Using Laser-Induced Fluorescence for Multihole Gasoline Direct Injectors under Flash Boiling Conditions. Energy & Fuels, 2022, 36, 298-309.	5.1	2
4	Spray cyclic variations of multicomponent fuels under subcooled, transitional, and superheated conditions. Fuel, 2022, 327, 125139.	6.4	0
5	Effect of flash boiling injection on combustion and PN emissions of DISI optical engine fueled with butanol isomers/TPRF blends. Proceedings of the Combustion Institute, 2021, 38, 5923-5931.	3.9	28
6	Study of flash boiling combustion with different fuel injection timings in an optical engine using digital image processing diagnostics. Fuel, 2021, 284, 119078.	6.4	20
7	Flash boiling combustion of isomeric butanol and gasoline surrogate blends using constant volume spray chamber and GDI optical engine. Fuel, 2021, 286, 119328.	6.4	23
8	Split injection flash boiling spray for high efficiency and low emissions in a GDI engine under lean combustion condition. Proceedings of the Combustion Institute, 2021, 38, 5769-5779.	3.9	36
9	Differences in pool-fire induced soot production between subcooled spray and flash boiling spray in a DISI engine. Fuel, 2021, 287, 119453.	6.4	13
10	Ultra-lean limit extension for gasoline direct injection engine application via high energy ignition and flash boiling atomization. Proceedings of the Combustion Institute, 2021, 38, 5829-5838.	3.9	18
11	Evaporation and condensation of flash boiling sprays impinging on a cold surface. Fuel, 2021, 287, 119423.	6.4	21
12	Numerical Study of Turbid Slab Optical Properties Reconstruction from Multiple Scattering Signals Using Time-Based Markov Chain Model. Applied Sciences (Switzerland), 2021, 11, 588.	2.5	0
13	Combustion Improved by Using Flash Boiling Sprays in an Ethanol-Gasoline Optical Engine under Cold Operating Conditions. Energy & Fuels, 2021, 35, 10134-10145.	5.1	9
14	Investigation of flash boiling injection schemes in lean-burn gasoline direct injection engines. Applications in Energy and Combustion Science, 2021, 7, 100035.	1.5	5
15	Experimental evaluation of the performance and emissions of a direct-injection compression-ignition engine fueled with n-hexanolâ€“diesel blends. Fuel, 2021, 302, 121144.	6.4	42
16	Impact of flash boiling multiple injections timing on the combustion and thermal efficiency of a gasoline direct injection engine under lean-burn. Fuel, 2021, 304, 121450.	6.4	12
17	A review on the experimental non-intrusive investigation of fuel injector phase changing flow. Fuel, 2020, 259, 116188.	6.4	38
18	Dynamics of spray impingement wall film under cold start conditions. International Journal of Engine Research, 2020, 21, 319-329.	2.3	15

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19	Significant Impact of Flash Boiling Spray on In-Cylinder Soot Formation and Oxidation Process. Energy & Fuels, 2020, 34, 10030-10038.	5.1	14
20	Combustion and emissions of isomeric butanol/gasoline surrogates blends on an optical GDI engine. Fuel, 2020, 272, 117690.	6.4	39
21	Investigations on the Optimal Ignition Strategy of Internal Combustion Engines via Various Spark Discharge Conditions. Energy & Fuels, 2020, 34, 14814-14821.	5.1	4
22	Investigations on near-field atomization of flash boiling sprays for gasoline direct injection related applications. Fuel, 2019, 257, 116097.	6.4	34
23	Effect of ambient temperature on flash-boiling spray characteristics for a multi-hole gasoline injector. Experiments in Fluids, 2019, 60, 1.	2.4	18
24	Investigation of two-hole flash-boiling plume-to-plume interaction and its impact on spray collapse. International Journal of Heat and Mass Transfer, 2019, 138, 608-619.	4.8	46
25	In-nozzle flash boiling flow of multi-component fuel and its effect on near-nozzle spray. Fuel, 2019, 252, 55-67.	6.4	43
26	Spray impingement wall film breakup by wave entrainment. Proceedings of the Combustion Institute, 2019, 37, 3287-3294.	3.9	34
27	Effects of enhanced tumble ratios on the in-cylinder performance of a gasoline direct injection optical engine. Applied Energy, 2019, 236, 137-146.	10.1	42
28	Experimental study of the spray collapse process of multi-hole gasoline fuel injection at flash boiling conditions. Fuel, 2019, 242, 109-123.	6.4	58
29	Effects of flash boiling injection on in-cylinder spray, mixing and combustion of a spark-ignition direct-injection engine. Proceedings of the Combustion Institute, 2019, 37, 4921-4928.	3.9	35
30	Influence of flash boiling spray on the combustion characteristics of a spark-ignition direct-injection optical engine under cold start. Combustion and Flame, 2018, 188, 66-76.	5.2	68
31	Influence of swirl ratio on fuel distribution and cyclic variation under flash boiling conditions in a spark ignition direct injection gasoline engine. Energy Conversion and Management, 2017, 138, 565-576.	9.2	40
32	Effects of nozzle configuration on internal flow and primary jet breakup of flash boiling fuel sprays. International Journal of Heat and Mass Transfer, 2017, 110, 730-738.	4.8	52
33	Near-nozzle spray and spray collapse characteristics of spark-ignition direct-injection fuel injectors under sub-cooled and superheated conditions. Fuel, 2016, 183, 322-334.	6.4	88
34	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
35	Simultaneous two-phase flow measurement of spray mixing process by means of high-speed two-color PIV. Measurement Science and Technology, 2014, 25, 095204.	2.6	54
36	Comparison of Fourier, principal component and wavelet analyses for high speed flame measurements. Computer Physics Communications, 2014, 185, 1237-1245.	7.5	19

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37	Laser sheet dropsizing of evaporating sprays using simultaneous LIEF/MIE techniques. Proceedings of the Combustion Institute, 2013, 34, 1677-1685.	3.9	60
38	MACROSCOPIC CHARACTERIZATION OF FLASH-BOILING MULTIHOLE SPRAYS USING PLANAR LASER-INDUCED EXCIPLEX FLUORESCENCE. PART II: CROSS-SECTIONAL SPRAY STRUCTURE. Atomization and Sprays, 2013, 23, 265-278.	0.8	21
39	MACROSCOPIC CHARACTERIZATION OF FLASH-BOILING MULTI-HOLE SPRAYS USING PLANAR LASER INDUCED EXCIPLEX FLUORESCENCE TECHNIQUE. PART I. ON-AXIS SPRAY STRUCTURE. Atomization and Sprays, 2012, 22, 861-878.	0.8	37
40	Macroscopic characteristics for direct-injection multi-hole sprays using dimensionless analysis. Experimental Thermal and Fluid Science, 2012, 40, 81-92.	2.7	89
41	Atomization and vaporization for flash-boiling multi-hole sprays with alcohol fuels. Fuel, 2012, 95, 287-297.	6.4	251
42	Flash Boiling: Easy and Better Way to Generate Ideal Sprays than the High Injection Pressure. SAE International Journal of Fuels and Lubricants, 0, 6, 137-148.	0.2	164
43	Particle Number Emissions Reduction Using Multiple Injection Strategies in a Boosted Spark-Ignition Direct-Injection (SIDI) Gasoline Engine. SAE International Journal of Engines, 0, 8, 20-29.	0.4	43
44	Investigation of Flash Boiling Spray and Combustion in SIDI Engine under Low-Speed Homogeneous Lean Operation. , 0, , .		1
45	Study of Flash Boiling Spray Combustion in a Spark Ignition Direct Injection Optical Engine Using Digital Image Processing Diagnostics. , 0, , .		3