

Hujie Pan

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,073
citations

471509

17
h-index

434195

31
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48
all docs

48
docs citations

48
times ranked

469
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigations of the phase change impacts on flash boiling spray propagations and impingements. <i>Fuel</i> , 2022, 312, 122871.	6.4	16
2	Tip-Wetting Film Analysis Using Laser-Induced Fluorescence for Multihole Gasoline Direct Injectors under Flash Boiling Conditions. <i>Energy & Fuels</i> , 2022, 36, 298-309.	5.1	2
3	Three-dimensional reconstruction for flame chemiluminescence field using a calibration enhanced non-negative algebraic reconstruction technique. <i>Optics Communications</i> , 2022, 520, 128530.	2.1	4
4	Valve Vibration Induced Intake Air Flow Dynamics Analysis Using Near Valve PIV. <i>Journal of Engineering for Gas Turbines and Power</i> , 2022, , .	1.1	0
5	Numerical reconstruction of turbid slab optical properties using global optimization algorithms. <i>Lasers in Medical Science</i> , 2021, 36, 43-54.	2.1	1
6	In-nozzle bubble formation and its effect on fuel jet breakup under cavitating and flash boiling conditions. <i>Applied Thermal Engineering</i> , 2021, 183, 116120.	6.0	15
7	Study of flash boiling combustion with different fuel injection timings in an optical engine using digital image processing diagnostics. <i>Fuel</i> , 2021, 284, 119078.	6.4	20
8	Flash boiling combustion of isomeric butanol and gasoline surrogate blends using constant volume spray chamber and GDI optical engine. <i>Fuel</i> , 2021, 286, 119328.	6.4	23
9	Adding n-butanol, n-heptanol, and n-octanol to improve vaporization, combustion, and emission characteristics of diesel/used frying oil biodiesel blends in <sc>DIC</sc> engine. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13549.	2.3	22
10	Evaporation and condensation of flash boiling sprays impinging on a cold surface. <i>Fuel</i> , 2021, 287, 119423.	6.4	21
11	A non-premixed reactive volatilization reactor for catalytic partial oxidation of low volatility fuels at a short contact time. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 662-671.	3.7	1
12	Numerical Study of Turbid Slab Optical Properties Reconstruction from Multiple Scattering Signals Using Time-Based Markov Chain Model. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 588.	2.5	0
13	Combustion Improved by Using Flash Boiling Sprays in an Ethanol-Gasoline Optical Engine under Cold Operating Conditions. <i>Energy & Fuels</i> , 2021, 35, 10134-10145.	5.1	9
14	Adaptive weight matrix and phantom intensity learning for computed tomography of chemiluminescence. <i>Optics Express</i> , 2021, 29, 23682.	3.4	5
15	Learning implicit light propagation from multi-flame projections for computed tomography of chemiluminescence. <i>Applied Optics</i> , 2021, 60, 6469.	1.8	3
16	Film breakup of tilted impinging spray under various pressure conditions. <i>International Journal of Engine Research</i> , 2020, 21, 330-339.	2.3	8
17	A review on the experimental non-intrusive investigation of fuel injector phase changing flow. <i>Fuel</i> , 2020, 259, 116188.	6.4	38
18	Dynamics of spray impingement wall film under cold start conditions. <i>International Journal of Engine Research</i> , 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. <i>Energy & Fuels</i> , 2020, 34, 10030-10038.	5.1	14
20	Investigation on flash boiling spray fluctuations in the near-field and far-field under gasoline direct injection related conditions. <i>Applied Thermal Engineering</i> , 2020, 179, 115655.	6.0	9
21	Combustion and emissions of isomeric butanol/gasoline surrogates blends on an optical GDI engine. <i>Fuel</i> , 2020, 272, 117690.	6.4	39
22	Flash boiling fuel initial disturbance in a transparent step-hole nozzle and its effect on external flows. <i>Fuel</i> , 2020, 274, 117768.	6.4	10
23	Numerical simulation of in-nozzle flow characteristics under flash boiling conditions. <i>International Journal of Multiphase Flow</i> , 2020, 127, 103275.	3.4	9
24	Investigations on the Optimal Ignition Strategy of Internal Combustion Engines via Various Spark Discharge Conditions. <i>Energy & Fuels</i> , 2020, 34, 14814-14821.	5.1	4
25	Towards Better Performance and More Explainable Uncertainty for 3D Object Detection of Autonomous Vehicles. , 2020, , .		17
26	Investigations on near-field atomization of flash boiling sprays for gasoline direct injection related applications. <i>Fuel</i> , 2019, 257, 116097.	6.4	34
27	Dynamic characteristics of in-nozzle flash boiling bubbles and corresponding temporal responses of external spray. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	12
28	Effect of ambient temperature on flash-boiling spray characteristics for a multi-hole gasoline injector. <i>Experiments in Fluids</i> , 2019, 60, 1.	2.4	18
29	Investigation of two-hole flash-boiling plume-to-plume interaction and its impact on spray collapse. <i>International Journal of Heat and Mass Transfer</i> , 2019, 138, 608-619.	4.8	46
30	In-nozzle flash boiling flow of multi-component fuel and its effect on near-nozzle spray. <i>Fuel</i> , 2019, 252, 55-67.	6.4	43
31	Markov Chain and Monte Carlo Predictions for Light Multiple Scattering Applications. , 2019, , .		0
32	Spray impingement wall film breakup by wave entrainment. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 3287-3294.	3.9	34
33	Experimental investigations of wall jet droplet impact on spray impingement fuel film formation. <i>Fuel</i> , 2019, 241, 33-41.	6.4	18
34	Markov Chain Investigation of Discretization Schemes and Computational Cost Reduction in Modeling Photon Multiple Scattering. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2288.	2.5	5
35	Characteristics and correlation of nozzle internal flow and jet breakup under flash boiling conditions. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 959-969.	4.8	54
36	Advanced Laser-Based Techniques for Gas-Phase Diagnostics in Combustion and Aerospace Engineering. <i>Applied Spectroscopy</i> , 2017, 71, 341-366.	2.2	52

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37	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
38	Markov chain solution of photon multiple scattering through turbid slabs. Optics Express, 2016, 24, 26942.	3.4	8
39	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
40	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
41	INVESTIGATION OF RAPID ATOMIZATION AND COLLAPSE OF SUPERHEATED LIQUID FUEL SPRAY UNDER SUPERHEATED CONDITIONS. Atomization and Sprays, 2016, 26, 1361-1384.	0.8	13
42	Capabilities and limitations of 3D flame measurements based on computed tomography of chemiluminescence. Combustion and Flame, 2015, 162, 642-651.	5.2	72
43	Volumetric imaging of turbulent reactive flows at kHz based on computed tomography. Optics Express, 2014, 22, 4768.	3.4	71
44	Numerical and experimental validation of a three-dimensional combustion diagnostic based on tomographic chemiluminescence. Optics Express, 2013, 21, 7050.	3.4	133
45	Method to correct the distortion caused by amplified stimulated emission as motivated by LIF-based flow diagnostics. Applied Optics, 2012, 51, 2107.	1.8	1
46	Scaling Law for Photon Transmission through Optically Turbid Slabs Based on Random Walk Theory. Applied Sciences (Switzerland), 2012, 2, 160-165.	2.5	6
47	Nozzle Tip Wetting in GDI Injector and Its Link with Nozzle Spray Hole Length. , 0, , .		0