Hujie Pan

List of Publications by Year in descending order

47 papers	1,073 citations	471509 17 h-index	434195 31 g-index
48 all docs	48 docs citations	48 times ranked	469 citing authors

#	Article	IF	Citations
1	Numerical and experimental validation of a three-dimensional combustion diagnostic based on tomographic chemiluminescence. Optics Express, 2013, 21, 7050.	3.4	133
2	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
3	Capabilities and limitations of 3D flame measurements based on computed tomography of chemiluminescence. Combustion and Flame, 2015, 162, 642-651.	5.2	72
4	Volumetric imaging of turbulent reactive flows at kHz based on computed tomography. Optics Express, 2014, 22, 4768.	3.4	71
5	Characteristics and correlation of nozzle internal flow and jet breakup under flash boiling conditions. International Journal of Heat and Mass Transfer, 2018, 127, 959-969.	4.8	54
6	Advanced Laser-Based Techniques for Gas-Phase Diagnostics in Combustion and Aerospace Engineering. Applied Spectroscopy, 2017, 71, 341-366.	2.2	52
7	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
8	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
9	In-nozzle flash boiling flow of multi-component fuel and its effect on near-nozzle spray. Fuel, 2019, 252, 55-67.	6.4	43
10	Combustion and emissions of isomeric butanol/gasoline surrogates blends on an optical GDI engine. Fuel, 2020, 272, 117690.	6.4	39
11	A review on the experimental non-intrusive investigation of fuel injector phase changing flow. Fuel, 2020, 259, 116188.	6.4	38
12	Investigations on near-field atomization of flash boiling sprays for gasoline direct injection related applications. Fuel, 2019, 257, 116097.	6.4	34
13	Spray impingement wall film breakup by wave entrainment. Proceedings of the Combustion Institute, 2019, 37, 3287-3294.	3.9	34
14	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
15	Adding nâ€butanol, nâ€heptanol, and nâ€octanol to improve vaporization, combustion, and emission characteristics of diesel/used frying oil biodiesel blends in <scp>DICI</scp> engine. Environmental Progress and Sustainable Energy, 2021, 40, e13549.	2.3	22
16	Evaporation and condensation of flash boiling sprays impinging on a cold surface. Fuel, 2021, 287, 119423.	6.4	21
17	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
18	Effect of ambient temperature on flash-boiling spray characteristics for a multi-hole gasoline injector. Experiments in Fluids, 2019, 60, 1.	2.4	18

#	Article	IF	Citations
19	Experimental investigations of wall jet droplet impact on spray impingement fuel film formation. Fuel, 2019, 241, 33-41.	6.4	18
20	Towards Better Performance and More Explainable Uncertainty for 3D Object Detection of Autonomous Vehicles. , 2020, , .		17
21	Experimental investigations of the phase change impacts on flash boiling spray propagations and impingements. Fuel, 2022, 312, 122871.	6.4	16
22	Dynamics of spray impingement wall film under cold start conditions. International Journal of Engine Research, 2020, 21, 319-329.	2.3	15
23	In-nozzle bubble formation and its effect on fuel jet breakup under cavitating and flash boiling conditions. Applied Thermal Engineering, 2021, 183, 116120.	6.0	15
24	Significant Impact of Flash Boiling Spray on In-Cylinder Soot Formation and Oxidation Process. Energy & Fuels, 2020, 34, 10030-10038.	5.1	14
25	INVESTIGATION OF RAPID ATOMIZATION AND COLLAPSE OF SUPERHEATED LIQUID FUEL SPRAY UNDER SUPERHEATED CONDITIONS. Atomization and Sprays, 2016, 26, 1361-1384.	0.8	13
26	Dynamic characteristics of in-nozzle flash boiling bubbles and corresponding temporal responses of external spray. Experiments in Fluids, 2019, 60, 1.	2.4	12
27	Flash boiling fuel initial disturbance in a transparent step-hole nozzle and its effect on external flows. Fuel, 2020, 274, 117768.	6.4	10
28	Investigation on flash boiling spray fluctuations in the near-field and far-field under gasoline direct injection related conditions. Applied Thermal Engineering, 2020, 179, 115655.	6.0	9
29	Numerical simulation of in-nozzle flow characteristics under flash boiling conditions. International Journal of Multiphase Flow, 2020, 127, 103275.	3.4	9
30	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
31	Markov chain solution of photon multiple scattering through turbid slabs. Optics Express, 2016, 24, 26942.	3.4	8
32	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
33	Film breakup of tilted impinging spray under various pressure conditions. International Journal of Engine Research, 2020, 21, 330-339.	2.3	8
34	Scaling Law for Photon Transmission through Optically Turbid Slabs Based on Random Walk Theory. Applied Sciences (Switzerland), 2012, 2, 160-165.	2.5	6
35	Markov Chain Investigation of Discretization Schemes and Computational Cost Reduction in Modeling Photon Multiple Scattering. Applied Sciences (Switzerland), 2018, 8, 2288.	2.5	5
36	Adaptive weight matrix and phantom intensity learning for computed tomography of chemiluminescence. Optics Express, 2021, 29, 23682.	3.4	5

#	Article	IF	Citations
37	Investigations on the Optimal Ignition Strategy of Internal Combustion Engines via Various Spark Discharge Conditions. Energy & Fuels, 2020, 34, 14814-14821.	5.1	4
38	Three-dimensional reconstruction for flame chemiluminescence field using a calibration enhanced non-negative algebraic reconstruction technique. Optics Communications, 2022, 520, 128530.	2.1	4
39	Learning implicit light propagation from multi-flame projections for computed tomography of chemiluminescence. Applied Optics, 2021, 60, 6469.	1.8	3
40	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
41	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
42	Numerical reconstruction of turbid slab optical properties using global optimization algorithms. Lasers in Medical Science, 2021, 36, 43-54.	2.1	1
43	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
44	Markov Chain and Monte Carlo Predictions for Light Multiple Scattering Applications. , 2019, , .		0
45	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
46	Nozzle Tip Wetting in GDI Injector and Its Link with Nozzle Spray Hole Length. , 0, , .		0
47	Valve Vibration Induced Intake Air Flow Dynamics Analysis Using Near Valve PIV. Journal of Engineering for Gas Turbines and Power, 2022, , .	1.1	0