

# Han Wu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75  
papers

1,125  
citations

20  
h-index

30  
g-index

81  
ext. papers

1,478  
ext. citations

5.7  
avg, IF

5.01  
L-index

#	Paper	IF	Citations
75	Spray and Combustion Characteristics of Neat Acetone-Butanol-Ethanol, n-Butanol, and Diesel in a Constant Volume Chamber. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 6380-6391	4.1	90
74	Impacts of acetone on the spray combustion of Acetone-Butanol-Ethanol (ABE)-Diesel blends under low ambient temperature. <i>Fuel</i> , <b>2015</b> , 142, 109-116	7.1	81
73	Impacts of Acetone-Butanol-Ethanol (ABE) ratio on spray and combustion characteristics of ABE-Diesel blends. <i>Applied Energy</i> , <b>2015</b> , 149, 367-378	10.7	77
72	Improved SI engine efficiency using Acetone-Butanol-Ethanol (ABE). <i>Fuel</i> , <b>2016</b> , 174, 333-343	7.1	63
71	Optical diagnostics of low-temperature ignition and combustion characteristics of diesel/kerosene blends under cold-start conditions. <i>Applied Energy</i> , <b>2019</b> , 251, 113307	10.7	40
70	Experimental investigation on the sputtering and micro-explosion of emulsion fuel droplets during impact on a heated surface. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 132, 130-137	4.9	39
69	Combustion characteristics and performance of a methanol fueled homogenous charge compression ignition (HCCI) engine. <i>Journal of the Energy Institute</i> , <b>2016</b> , 89, 346-353	5.7	34
68	Experimental and kinetic studies on laminar flame characteristics of acetone-butanol-ethanol (ABE) and toluene reference fuel (TRF) blends at atmospheric pressure. <i>Fuel</i> , <b>2018</b> , 232, 755-768	7.1	33
67	Experimental and kinetic investigation on soot formation of n-butanol-gasoline blends in laminar coflow diffusion flames. <i>Fuel</i> , <b>2018</b> , 213, 195-205	7.1	33
66	Experimental and Kinetical Study of Component Volumetric Effects on Laminar Flame Speed of Acetone-Butanol-Ethanol (ABE). <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 6278-6292	4.1	31
65	The experimental investigation on the impact of toluene addition on low-temperature ignition characteristics of diesel spray. <i>Fuel</i> , <b>2019</b> , 254, 115580	7.1	28
64	An experimental study on soot distribution characteristics of ethanol-gasoline blends in laminar diffusion flames. <i>Journal of the Energy Institute</i> , <b>2018</b> , 91, 997-1008	5.7	28
63	An investigation on a diesel jet ignition characteristics under cold-start conditions. <i>Applied Thermal Engineering</i> , <b>2017</b> , 121, 511-519	5.8	27
62	Experimental Investigation of Polycyclic Aromatic Hydrocarbons Growth Characteristics of Gasoline Mixed with Methanol, Ethanol, or n-Butanol in Laminar Diffusion Flames. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 6823-6833	4.1	27
61	Nozzle internal flow and spray primary breakup with the application of closely coupled split injection strategy. <i>Fuel</i> , <b>2018</b> , 228, 187-196	7.1	27
60	Spray performance of air-assisted kerosene injection in a constant volume chamber under various in-cylinder GDI engine conditions. <i>Applied Thermal Engineering</i> , <b>2019</b> , 150, 762-769	5.8	26
59	Study of the spray characteristics of a diesel surrogate for diesel engines under sub/supercritical states injected into atmospheric environment. <i>Fuel</i> , <b>2018</b> , 230, 308-318	7.1	23

58	Effect of injection pressure on the impinging spray and ignition characteristics of the heavy-duty diesel engine under low-temperature conditions. <i>Applied Energy</i> , <b>2020</b> , 262, 114552	10.7	22
57	Optical soot measurement of bio-butanol upstream product, ABE (AcetoneButanolEthanol), under diesel-like conditions. <i>Fuel</i> , <b>2016</b> , 181, 300-309	7.1	22
56	Experimental investigation on the characteristic of jet break-up for butanol droplet impacting onto a heated surface in the film boiling regime. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 123, 129-136	4.9	21
55	Experimental and kinetic studies of soot formation in methanol-gasoline coflow diffusion flames. <i>Journal of the Energy Institute</i> , <b>2019</b> , 92, 38-50	5.7	20
54	An optical investigation of substitution rates on natural gas/diesel dual-fuel combustion in a diesel engine. <i>Applied Energy</i> , <b>2020</b> , 261, 114455	10.7	18
53	The effect of turbulent jet induced by pre-chamber sparkplug on combustion characteristics of hydrogen-air pre-mixture. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 8116-8126	6.7	18
52	Breakup of fuel sprays under cavitating and flash boiling conditions. <i>Applied Thermal Engineering</i> , <b>2018</b> , 143, 22-33	5.8	17
51	An Optical Investigation of Multiple Diesel Injections in CNG/Diesel Dual-Fuel Combustion in a Light Duty Optical Diesel Engine <b>2017</b> ,		17
50	The optical investigation of hydrogen enrichment effects on combustion and soot emission characteristics of CNG/diesel dual-fuel engine. <i>Fuel</i> , <b>2020</b> , 280, 118639	7.1	17
49	Microscopic study on the mechanisms for formation of the initial spray morphology. <i>Fuel</i> , <b>2019</b> , 235, 715-722	7.1	16
48	Experimental and kinetic study on ignition of DME/n-butane mixtures under high pressures on a rapid compression machine. <i>Fuel</i> , <b>2018</b> , 225, 35-46	7.1	15
47	Effect of Alcohol Addition to Gasoline on Soot Distribution Characteristics in Laminar Diffusion Flames. <i>Chemical Engineering and Technology</i> , <b>2018</b> , 41, 897-906	2	15
46	Effects of alcohol addition to traditional fuels on soot formation: A review. <i>International Journal of Engine Research</i> , <b>2021</b> , 22, 1395-1420	2.7	12
45	Experimental study on the combustion characteristics of impinging diesel spray at low temperature environment. <i>Applied Thermal Engineering</i> , <b>2019</b> , 148, 1233-1245	5.8	11
44	Ignition properties of lean DME/H <sub>2</sub> mixtures at low temperatures and elevated pressures. <i>Fuel</i> , <b>2018</b> , 226, 545-554	7.1	11
43	Schlieren investigation on impacts of duct size on macroscopic spray characteristics of ducted fuel injection. <i>Applied Thermal Engineering</i> , <b>2020</b> , 176, 115440	5.8	10
42	Investigation on Soot Characteristics of Gasoline/Diesel Blends in a Laminar Coflow Diffusion Flame. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 7841-7850	4.1	10
41	Impacts of hydrogen-addition on methanol-air laminar burning coupled with pressures variation effects. <i>Energy</i> , <b>2019</b> , 187, 115997	7.9	9

40	Hydrogen effect on lean flammability limits and burning characteristics of an isooctane-air mixture. <i>Fuel</i> , <b>2020</b> , 266, 117144	7.1	9
39	An optical investigation on spray macroscopic characteristics of ducted fuel injection. <i>Experimental Thermal and Fluid Science</i> , <b>2019</b> , 109, 109918	3	9
38	Experimental and kinetic investigation on the effects of hydrogen additive on laminar premixed methanol-air flames. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 22263-22281	6.7	8
37	Effect of Toluene Addition on the PAH Formation in Laminar Coflow Diffusion Flames of n-Heptane and Isooctane. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 7142-7152	4.1	8
36	Effects of hydrogen addition on the laminar methanol-air flame under different initial temperatures. <i>Renewable Energy</i> , <b>2020</b> , 154, 209-222	8.1	7
35	Investigation on Spray and Flame Lift-Off Length of Acetone/Butanol/Ethanol/Diesel Blend in a Constant Volume Chamber. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2015</b> , 137,	1.7	7
34	EFFECT OF NOZZLE DIAMETER ON MACROSCOPIC SPRAY BEHAVIOR OF HEAVY-DUTY DIESEL ENGINE UNDER COLD-START CONDITIONS. <i>Atomization and Sprays</i> , <b>2019</b> , 29, 741-762	1.2	7
33	Optical experiments on diesel knock for high altitude engines under spray impingement conditions. <i>Fuel</i> , <b>2020</b> , 278, 118268	7.1	6
32	Effect of injection pressure and fuel mass on wall-impinging ignition and combustion characteristics of heavy-duty diesel engine at low temperatures. <i>Fuel</i> , <b>2021</b> , 299, 120904	7.1	6
31	Acting mechanism of low ambient temperature on wall-impinging diesel spray ignition at an extensive range. <i>Fuel</i> , <b>2021</b> , 304, 121344	7.1	6
30	Characteristics of premixed hydrogen/air squish flame in a confined vessel. <i>Journal of the Energy Institute</i> , <b>2018</b> , 91, 1102-1112	5.7	5
29	Comparison Study on Combustion and Emission Characteristics of ABE/IBE-Diesel Blends in a Common-Rail Diesel Engine <b>2017</b> ,		5
28	Study on lean burn limits and burning characteristics of n-heptane with effects of hydrogen enrichment. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 25452-25467	6.7	5
27	A numerical investigation of injection pressure effects on wall-impinging ignition at low-temperatures for heavy-duty diesel engine. <i>Applied Thermal Engineering</i> , <b>2021</b> , 184, 116366	5.8	5
26	Experimental and numerical study on formation mechanism of premixed hydrogen-air squish flame in wall constrained environment. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 18559-18572	6.7	4
25	Autoignition of DME/C <sub>2</sub> H <sub>6</sub> Mixtures Under High-Pressure and Low-Temperature Conditions. <i>Combustion Science and Technology</i> , <b>2019</b> , 191, 1201-1218	1.5	4
24	Study on oxygen species characteristics of Ce <sub>x</sub> Mn <sub>1-x</sub> O <sub>2</sub> catalyst for diesel soot oxidation. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2021</b> , 43, 326-336	1.6	4
23	Experimental and numerical study on the effect of dimensionless parameters on the characteristics of droplet atomization caused by periodic inertial force. <i>Fuel</i> , <b>2019</b> , 253, 941-949	7.1	3

22	Soot and PAH Formation Characteristics of Methanol-Gasoline Belnds in Laminar Coflow Diffusion Flames <b>2018</b> ,		3
21	Effect of Ethanol Addition on Soot Formation of Gasoline in Laminar Diffusion Flames <b>2017</b> ,		3
20	The Optical Investigation on Initial Flame Developing Characteristics of Diesel Jet under Cold Start Conditions. <i>Combustion Science and Technology</i> , <b>2021</b> , 193, 1696-1717	1.5	3
19	Wall Temperature Effects on Ignition Characteristics of Liquid-phase Spray Impingement for Heavy-duty Diesel Engine at Low Temperatures. <i>Combustion Science and Technology</i> ,1-16	1.5	3
18	Effect of Hydrogen Volume Ratio on the Combustion Characteristics of CNG-Diesel Dual-Fuel Engine <b>2017</b> ,		2
17	Experimental and Kinetic Investigation of Pressure and Temperature Effects on Burning Characteristics of n-Heptane/Air/Hydrogen up to Near Lean Burn Limits		2
16	A novel flameless oxidation and in-chamber melting system coupled with advanced scrubbers for a laboratory waste plant. <i>Waste Management</i> , <b>2021</b> , 126, 706-718	8.6	2
15	Analysis of mechanism of ducted fuel injection under non-vaporizing condition. <i>Fuel</i> , <b>2021</b> , 305, 121496	7.1	2
14	Spray Entrainment Coefficient Modeling for High Injection Pressure Based On Entrainment Velocity and Force Analysis. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2022</b> ,	2.1	2
13	Effect of droplet size on the jet breakup characteristics of n-butanol during impact on a heated surface. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2020</b> , 7, 320-330	3.9	1
12	Magnetic field analysis and optimal design of magnetic bearing <b>2009</b> ,		1
11	Experimental Evaluation of Various Gasoline Surrogates Based on Soot Formation Characteristics. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 11961-11969	4.1	1
10	Ultra-low PCDD/F emissions and their particle size and mass distribution in a hazardous waste treatment system. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127032	12.8	1
9	Numerical study of wall-impinging ignition at different wall distances for cold start of heavy-duty diesel engine. <i>Applied Thermal Engineering</i> , <b>2022</b> , 212, 118535	5.8	1
8	Study on impinging ignition and wall-attached fuel film combustion characteristics of light- to heavy-duty diesel engines at low temperatures. <i>Fuel</i> , <b>2022</b> , 313, 123065	7.1	0
7	Numerical Investigation of Negative Temperature Coefficient Effects on Sooting Characteristics in a Laminar Co-flow Diffusion Flame. <i>ACS Omega</i> , <b>2021</b> , 6, 15156-15167	3.9	0
6	Investigations on the cellular instabilities of expanding hydrogen/methanol spherical flame. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 33601-33615	6.7	0
5	Effects of CO2 on the laminar burning velocities of toluene reference fuel (TRF) with increasing initial temperatures and pressures. <i>Fuel</i> , <b>2022</b> , 318, 123508	7.1	0

4	Theoretical study on the reaction of nitric oxide with 2-hydroxyethyl radical. <i>Molecular Physics</i> , <b>2021</b> , 119, e1811906	1.7
3	Parametric Simulations on Leakage and Performance of a Miniature Free-Piston Generator (MFPG). <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7742	2.6
2	Effect of the Air Flow on the Combustion Process and Preheating Effect of the Intake Manifold Burner. <i>Energies</i> , <b>2022</b> , 15, 3260	3.1
1	Study on Engine Performance and Combustion System Optimization of a Poppet-Valve Two-Stroke Diesel Engine. <i>Energies</i> , <b>2022</b> , 15, 3685	3.1