Hai-Wen Ge

List of Publications by Year
in descending order

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67	1,142	623574	580701
papers	citations	14 h-index	25 g-index

78	78	78	772
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation of a turbulent spray flame using coupled PDF gas phase and spray flamelet modeling. Combustion and Flame, 2008, 153, 173-185.	2.8	78
2	Acceleration of the chemistry solver for modeling DI engine combustion using dynamic adaptive chemistry (DAC) schemes. Combustion Theory and Modelling, 2010, 14, 69-89.	1.0	69
3	Computational Optimization of Internal Combustion Engines. , 2011, , .		65
4	Automatic Chemistry Mechanism Reduction of Hydrocarbon Fuels for HCCI Engines Based on DRGEP and PCA Methods with Error Control. Energy & Fuels, 2010, 24, 1646-1654.	2.5	63
5	Twist engineering of the two-dimensional magnetism in double bilayer chromium triiodide homostructures. Nature Physics, 2022, 18, 30-36.	6.5	62
6	Experimental and numerical characterization of a turbulent spray flame. Proceedings of the Combustion Institute, 2007, 31, 2247-2255.	2.4	51
7	Validation of Mesh- and Timestep- Independent Spray Models for Multi-Dimensional Engine CFD Simulation. SAE International Journal of Fuels and Lubricants, 0, 3, 277-302.	0.2	42
8	Efficient Simulation of Diesel Engine Combustion Using Realistic Chemical Kinetics in CFD. , 2010, , .		37
9	reactingFoam-SCI: An open source CFD platform for reacting flow simulation. Computers and Fluids, 2019, 190, 114-127.	1.3	37
10	Laser-Based Experimental and Monte Carlo PDF Numerical Investigation of an Ethanol/Air Spray Flame. Combustion Science and Technology, 2008, 180, 1529-1547.	1.2	35
11	PROBABILITY DENSITY FUNCTION (PDF) SIMULATION OF TURBULENT SPRAY FLOWS. , 2006, 16, 531-542.		30
12	Experimental Investigation of the Flame Front Propagation Characteristic During Light-round Ignition in an Annular Combustor. Flow, Turbulence and Combustion, 2019, 103, 247-269.	1.4	30
13	Insights into engine autoignition: Combining engine thermodynamic trajectory and fuel ignition delay iso-contour. Combustion and Flame, 2019, 200, 207-218.	2.8	29
14	Engine Development Using Multi-dimensional CFD and Computer Optimization. , 0, , .		25
15	Optimization of a HSDI Diesel Engine for Passenger Cars Using a Multi-Objective Genetic Algorithm and Multi-Dimensional Modeling. SAE International Journal of Engines, 0, 2, 691-713.	0.4	24
16	A kinetic modeling study on octane rating and fuel sensitivity in advanced compression ignition engines. Combustion and Flame, 2017, 185, 234-244.	2.8	22
17	Manifestation of octane rating, fuel sensitivity, and composition effects for gasoline surrogates under advanced compression ignition conditions. Combustion and Flame, 2018, 192, 238-249.	2.8	22
18	Heavy-Duty Diesel Combustion Optimization Using Multi-Objective Genetic Algorithm and Multi-Dimensional Modeling. , 0, , .		21

#	Article	IF	Citations
19	Large eddy simulation of flame propagation during the ignition process in an annular multiple-injector combustor. Fuel, 2020, 263, 116402.	3.4	21
20	Modeling the Effects of In-Cylinder Flows on HSDI Diesel Engine Performance and Emissions. SAE International Journal of Fuels and Lubricants, 0, 1, 293-311.	0.2	20
21	Investigation of airflow field in the upper airway under unsteady respiration pattern using large eddy simulation method. Respiratory Physiology and Neurobiology, 2020, 279, 103468.	0.7	20
22	Numerical Simulation of Ignition Mechanism in the Main Chamber of Turbulent Jet Ignition System. , 2018, , .		19
23	Raman spectroscopy of diesel and gasoline engine-out soot using different laser power. Journal of Environmental Sciences, 2019, 79, 74-80.	3.2	19
24	Large-eddy simulation of droplet-laden cough jets with a realistic manikin model. Indoor and Built Environment, 2022, 31, 1271-1286.	1.5	17
25	Fuel wall film effects on premixed flame propagation, quenching and emission. International Journal of Engine Research, 2020, 21, 1055-1066.	1.4	16
26	Optimization of a high-speed direct-injection diesel engine at low-load operation using computational fluid dynamics with detailed chemistry and a multi-objective genetic algorithm. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2010, 224, 547-563.	1.1	14
27	Simulations of flame propagation during the ignition process in an annular multiple-injector combustor. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1947-1964.	1.6	14
28	A comparison of computational fluid dynamics predicted initial liquid penetration using rate of injection profiles generated using two different measurement techniques. International Journal of Engine Research, 2019, 20, 226-235.	1.4	14
29	Efficient Multidimensional Simulation of HCCI and DI Engine Combustion with Detailed Chemistry. , 2009, , .		13
30	CFD Optimization of the Pre-Chamber Geometry for a Gasoline Spark Ignition Engine. Frontiers in Mechanical Engineering, 2021, 6, .	0.8	12
31	Hybrid Unsteady RANS and PDF Method for Turbulent Non-Reactive and Reactive Flows. Flow, Turbulence and Combustion, 2007, 78, 91-109.	1.4	10
32	Validation of Advanced Combustion Models Applied to Two-Stage Combustion in a Heavy Duty Diesel Engine. , 0, , .		10
33	Joint Gas-Phase Velocity-Scalar PDF Modeling for Turbulent Evaporating Spray Flows. Combustion Science and Technology, 2012, 184, 1664-1679.	1.2	10
34	PIV measurement and numerical simulation of fan-driven flow in a constant volume combustion vessel. Applied Thermal Engineering, 2014, 64, 19-31.	3.0	10
35	Numerical study of a rotating liquid jet impingement cooling system. International Journal of Heat and Mass Transfer, 2020, 163, 120446.	2.5	10
36	Molecular Dynamics Simulations of Vaporâ€“Liquid Interface Properties ofn-Heptane/Nitrogen at Subcritical and Transcritical Conditions. Journal of Physical Chemistry B, 2021, 125, 6968-6985.	1.2	10

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37	Simulation of bluff body stabilized flows with hybrid RANS and PDF method. Acta Mechanica Sinica/Lixue Xuebao, 2007, 23, 263-273.	1.5	9
38	Investigation of Diesel Liquid Spray Penetration Fluctuations under Vaporizing Conditions. , 2012, , .		9
39	Further study on wall film effects and flame quenching under engine thermodynamic conditions. Combustion and Flame, 2020, 216, 100-110.	2.8	9
40	Numerical study of the impact of glottis properties on the airflow field in the human trachea using V-LES. Respiratory Physiology and Neurobiology, 2022, 295, 103784.	0.7	9
41	Computational Optimization of a Down-Scaled Diesel Engine Operating in the Conventional Diffusion Combustion Regime Using a Multi-Objective Genetic Algorithm. Combustion Science and Technology, 2012, 184, 78-96.	1.2	8
42	Investigation of Key Mechanisms for Liquid Length Fluctuations in Transient Vaporizing Diesel Sprays. SAE International Journal of Engines, 0, 6, 1202-1212.	0.4	8
43	LES study of the respiratory airflow field in a whole-lung airway model considering steady respiration. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	8
44	Prediction of Autoignition and Flame Properties for Multicomponent Fuels Using Machine Learning Techniques. , 0, , .		8
45	Numerical Investigation of the Spark Plug Orientation Effects on Flame Kernel Growth. , 0, , .		6
46	Coupling of Scaling Laws and Computational Optimization to Develop Guidelines for Diesel Engine Down-sizing. , 0, , .		5
47	Two-stage autoignition and combustion mode evolution in boundary layer flows above a cold flat plate. Proceedings of the Combustion Institute, 2021, 38, 767-776.	2.4	5
48	Engine Cylinder Head Thermal-Mechanical Fatigue Evaluation Technology and Platform Application. SAE International Journal of Engines, 0, 13, 101-120.	0.4	5
49	A Two-Zone Multigrid Model for SI Engine Combustion Simulation Using Detailed Chemistry. Journal of Combustion, 2010, 2010, 1-12.	0.5	4
50	A Comprehensive Ignition System Model for Spark Ignition Engines. , 2018, , .		4
51	A Computational Study on Laminar Flame Propagation in Mixtures with Non-Zero Reaction Progress. , 0, , .		4
52	Initiation and propagation of one-dimensional planar flames in mixtures with variable reaction progress. Combustion and Flame, 2022, 236, 111765.	2.8	4
53	An efficient numerical solution scheme for the computation of the particle velocity in two-phase flows. Progress in Computational Fluid Dynamics, 2007, 7, 467.	0.1	3
54	A 1-D Platform to Simulate the Effects of Dedicated EGR on SI Engine Combustion. , 2017, , .		3

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55	Effects of Numerical Models on Prediction of Cylinder Pressure Ringing in a DI Diesel Engine. , 2018, , .		3
56	Optimization of Piston-Ring System for Reducing Lube Oil Consumption by CAE Approach. , 0, , .		3
57	Effects of face shield on an emitter during a cough process: A large-eddy simulation study. Science of the Total Environment, 2022, 831, 154856.	3.9	3
58	LES study on the impact of airway deformation on the airflow structures in the idealized mouthâ€“throat model. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	0.8	3
59	Simulation of vortex shedding behind a bluff body flame stabilizer using a hybrid U-RANS/PDF method. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 348-358.	1.5	2
60	Assessment of Primary Atomization Models for Spray Simulation. , 2020, , .		2
61	CFD-guided development of a pre-chamber ignition system for internal combustion engines. International Journal of Powertrains, 2021, 10, 79.	0.1	1
62	CFD Simulation of a Premixed Spark Injection Hydrogen Engine. , 2019, , .		1
63	Effects of stratification and charge cooling on combustion in a gasoline direct-injection compression ignition (GDCI) engine. International Journal of Engine Research, 0, , 146808742210773.	1.4	1
64	Modeling and Simulation of Turbulent Non-Reacting and Reacting Spray Flows. , 2007, , 397-417.		0
65	Joint Gas-Phase Velocity-Scalar PDF Modeling of Turbulent Evaporating Spray Flows. , 2012, , .		0
66	A Two-Step Combustion Model of Iso-Octane for 3D CFD Combustion Simulation in SI Engines. , 0, , .		0
67	A Two-Layer Soot Model for Hydrocarbon Fuel Combustion. , 0, , .		0