Hai-Wen Ge

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7047673/publications.pdf

Version: 2024-02-01

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	Large-eddy simulation of droplet-laden cough jets with a realistic manikin model. Indoor and Built Environment, 2022, 31, 1271-1286.	1.5	17
2	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
3	Initiation and propagation of one-dimensional planar flames in mixtures with variable reaction progress. Combustion and Flame, 2022, 236, 111765.	2.8	4
4	Twist engineering of the two-dimensional magnetism in double bilayer chromium triiodide homostructures. Nature Physics, 2022, 18, 30-36.	6.5	62
5	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
6	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
7	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
8	CFD-guided development of a pre-chamber ignition system for internal combustion engines. International Journal of Powertrains, 2021, 10, 79.	0.1	1
9	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
10	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
11	CFD Optimization of the Pre-Chamber Geometry for a Gasoline Spark Ignition Engine. Frontiers in Mechanical Engineering, 2021, 6, .	0.8	12
12	Fuel wall film effects on premixed flame propagation, quenching and emission. International Journal of Engine Research, 2020, 21, 1055-1066.	1.4	16
13	Large eddy simulation of flame propagation during the ignition process in an annular multiple-injector combustor. Fuel, 2020, 263, 116402.	3.4	21
14	Numerical study of a rotating liquid jet impingement cooling system. International Journal of Heat and Mass Transfer, 2020, 163, 120446.	2.5	10
15	Further study on wall film effects and flame quenching under engine thermodynamic conditions. Combustion and Flame, 2020, 216, 100-110.	2.8	9
16	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
17	Assessment of Primary Atomization Models for Spray Simulation. , 2020, , .		2
18	reactingFoam-SCI: An open source CFD platform for reacting flow simulation. Computers and Fluids, 2019, 190, 114-127.	1.3	37

#	Article	IF	Citations
19	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
20	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
21	Insights into engine autoignition: Combining engine thermodynamic trajectory and fuel ignition delay iso-contour. Combustion and Flame, 2019, 200, 207-218.	2.8	29
22	Raman spectroscopy of diesel and gasoline engine-out soot using different laser power. Journal of Environmental Sciences, 2019, 79, 74-80.	3.2	19
23	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
24	CFD Simulation of a Premixed Spark Injection Hydrogen Engine. , 2019, , .		1
25	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
26	Effects of Numerical Models on Prediction of Cylinder Pressure Ringing in a DI Diesel Engine. , 2018, , .		3
27	A Comprehensive Ignition System Model for Spark Ignition Engines. , 2018, , .		4
28	Numerical Simulation of Ignition Mechanism in the Main Chamber of Turbulent Jet Ignition System. , 2018, , .		19
29	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
30	A 1-D Platform to Simulate the Effects of Dedicated EGR on SI Engine Combustion. , 2017, , .		3
31	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
32	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
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	Investigation of Diesel Liquid Spray Penetration Fluctuations under Vaporizing Conditions. , 2012, , .		9
35	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
36	Joint Gas-Phase Velocity-Scalar PDF Modeling of Turbulent Evaporating Spray Flows. , 2012, , .		0

#	Article	IF	Citations
37	Computational Optimization of Internal Combustion Engines. , 2011, , .		65
38	Efficient Simulation of Diesel Engine Combustion Using Realistic Chemical Kinetics in CFD. , 2010, , .		37
39	A Two-Zone Multigrid Model for SI Engine Combustion Simulation Using Detailed Chemistry. Journal of Combustion, 2010, 2010, 1-12.	0.5	4
40	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
41	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
42	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
43	Efficient Multidimensional Simulation of HCCI and DI Engine Combustion with Detailed Chemistry. , 2009, , .		13
44	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
45	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
46	Modeling and Simulation of Turbulent Non-Reacting and Reacting Spray Flows. , 2007, , 397-417.		0
47	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
48	Simulation of bluff body stabilized flows with hybrid RANS and PDF method. Acta Mechanica Sinica/Lixue Xuebao, 2007, 23, 263-273.	1.5	9
49	Hybrid Unsteady RANS and PDF Method for Turbulent Non-Reactive and Reactive Flows. Flow, Turbulence and Combustion, 2007, 78, 91-109.	1.4	10
50	Experimental and numerical characterization of a turbulent spray flame. Proceedings of the Combustion Institute, 2007, 31, 2247-2255.	2.4	51
51	PROBABILITY DENSITY FUNCTION (PDF) SIMULATION OF TURBULENT SPRAY FLOWS. , 2006, 16, 531-542.		30
52	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
53	Heavy-Duty Diesel Combustion Optimization Using Multi-Objective Genetic Algorithm and Multi-Dimensional Modeling. , 0, , .		21
54	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

#	Article	IF	Citations
55	Validation of Advanced Combustion Models Applied to Two-Stage Combustion in a Heavy Duty Diesel Engine. , 0, , .		10
56	Engine Development Using Multi-dimensional CFD and Computer Optimization. , 0, , .		25
57	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
58	Coupling of Scaling Laws and Computational Optimization to Develop Guidelines for Diesel Engine Down-sizing. , 0, , .		5
59	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
60	Numerical Investigation of the Spark Plug Orientation Effects on Flame Kernel Growth. , 0, , .		6
61	A Computational Study on Laminar Flame Propagation in Mixtures with Non-Zero Reaction Progress. , 0, , .		4
62	Prediction of Autoignition and Flame Properties for Multicomponent Fuels Using Machine Learning Techniques. , 0, , .		8
63	A Two-Step Combustion Model of Iso-Octane for 3D CFD Combustion Simulation in SI Engines. , 0, , .		0
64	Engine Cylinder Head Thermal-Mechanical Fatigue Evaluation Technology and Platform Application. SAE International Journal of Engines, 0, 13, 101-120.	0.4	5
65	A Two-Layer Soot Model for Hydrocarbon Fuel Combustion. , 0, , .		0
66	Optimization of Piston-Ring System for Reducing Lube Oil Consumption by CAE Approach. , 0, , .		3
67	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