Haifeng Wang

List of Publications by Year
in descending order

44	1,100	393982	414034
papers	citations	19 h-index	32 g-index

44	44	44	560
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Machine learning assisted modeling of mixing timescale for LES/PDF of high-Karlovitz turbulent premixed combustion. Combustion and Flame, 2022, 238, 111895.	2.8	53
2	Effect of Unsteadiness and Scalar Dissipation Models on Flamelet Modeling of Differential Molecular Diffusion in Turbulent Non-Premixed DNS Flames. Flow, Turbulence and Combustion, 2022, 108, 1017-1042.	1.4	1
3	Examination of probability distribution of mixture fraction in LES/FDF modelling of a turbulent partially premixed jet flame. Combustion Theory and Modelling, 2022, 26, 320-337.	1.0	3
4	Transported PDF modeling of compressible turbulent reactive flows by using the Eulerian Monte Carlo fields method. Journal of Computational Physics, 2021, 425, 109899.	1.9	5
5	A priori analysis of a power-law mixing model for transported PDF model based on high Karlovitz turbulent premixed DNS flames. Proceedings of the Combustion Institute, 2021, 38, 2917-2927.	2.4	7
6	Fully consistent Eulerian Monte Carlo fields method for solving probability density function transport equations in turbulence modeling. Physics of Fluids, 2021, 33, 015118.	1.6	3
7	Propagation and extinction behavior of methane/air premixed flames through straight and converging-diverging microchannels. Applied Thermal Engineering, 2019, 148, 1395-1406.	3.0	11
8	Examination of errors of table integration in flamelet/progress variable modeling of a turbulent non-premixed jet flame. Applied Mathematical Modelling, 2019, 72, 369-384.	2.2	20
9	Computational investigations of the coupling between transient flame dynamics and thermo-acoustic instability in a self-excited resonance combustor. Combustion Theory and Modelling, 2019, 23, 854-884.	1.0	6
10	Transported PDF Modeling of Thermo-Acoustic Instability in a Self-Excited Model Rocket Combustor using Eulerian Monte Carlo Fields Method. , 2019, , .		3
11	Flamelet Modeling of Transverse Thermo-Acoustic Instability in a Multi-Element Combustor. , 2019, , .		3
12	An Experimental and Numerical Investigation of Flame Propagation in Converging-Diverging Microchannels. , 2018, , .		0
13	LES/PDF Modeling of Turbulent Premixed Flames with Locally Enhanced Mixing by Reaction. Flow, Turbulence and Combustion, 2018, 100, 147-175.	1.4	18
14	Consistency and convergence of Eulerian Monte Carlo field method for solving transported probability density function equation in turbulence modeling. Physics of Fluids, 2018, 30, .	1.6	10
15	Consistent modeling of differential molecular diffusion to yield desired Reynolds-number power-law scaling. Physics of Fluids, 2018, 30, 085108.	1.6	5
16	Variance consistent mean shift particle model for treating differential molecular diffusion in transported PDF methods for turbulent reactive flows. Computers and Fluids, 2018, 170, 53-76.	1.3	9
17	Reynolds-number power-law scaling of differential molecular diffusion in turbulent nonpremixed combustion. Physical Review Fluids, 2018, 3, .	1.0	1
18	A unified view of pilot stabilized turbulent jet flames for model assessment across different combustion regimes. Proceedings of the Combustion Institute, 2017, 36, 1693-1703.	2.4	18

#	Article	IF	Citations
19	Assessment of Differential Diffusion Effects on Soot Evolution in Piloted Non-premixed Turbulent Flames. , 2017, , .		1
20	A comparison of different approaches to integrate flamelet tables with presumed-shape PDF in flamelet models for turbulent flames. Combustion Theory and Modelling, 2017, 21, 603-629.	1.0	9
21	Studies of the flow and turbulence fields in a turbulent pulsed jet flame using LES/PDF. Combustion Theory and Modelling, 2017, 21, 897-924.	1.0	12
22	Examination of the effect of differential molecular diffusion in DNS of turbulent non-premixed flames. International Journal of Hydrogen Energy, 2017, 42, 11879-11892.	3.8	16
23	Consistent flamelet modeling of differential molecular diffusion for turbulent non-premixed flames. Physics of Fluids, 2016, 28, .	1.6	28
24	On ignition mechanisms of premixed CH 4 /air and H 2 /air using a hot turbulent jet generated by pre-chamber combustion. Applied Thermal Engineering, 2016, 106, 925-937.	3.0	195
25	Effect of molecular transport on PDF modeling of turbulent non-premixed flames. Proceedings of the Combustion Institute, 2015, 35, 1137-1145.	2.4	25
26	Specific volume coupling and convergence properties in hybrid particle/finite volume algorithms for turbulent reactive flows. Journal of Computational Physics, 2015, 294, 110-126.	1.9	30
27	A novel transient turbulent jet flame for studying turbulent combustion. Proceedings of the Combustion Institute, 2013, 34, 1251-1259.	2.4	21
28	Large-scale parallel simulations of turbulent combustion using combined dimension reduction and tabulation of chemistry. Proceedings of the Combustion Institute, 2013, 34, 205-215.	2.4	40
29	Large-eddy simulation/probability density function modeling of a non-premixed CO/H2 temporally evolving jet flame. Proceedings of the Combustion Institute, 2013, 34, 1241-1249.	2.4	67
30	Computationally-efficient and scalable parallel implementation of chemistry in simulations of turbulent combustion. Combustion and Flame, 2012, 159, 3096-3109.	2.8	27
31	Modelling effects of subgrid-scale mixture fraction variance in LES of a piloted diffusion flame. Combustion Theory and Modelling, 2012, 16, 611-638.	1.0	37
32	Turbulence Resolution Scale Dependence in Large-Eddy Simulations of a Jet Flame. Flow, Turbulence and Combustion, 2012, 88, 529-561.	1.4	12
33	Numerical implementation of mixing and molecular transport in LES/PDF studies of turbulent reacting flows. Journal of Computational Physics, 2011, 230, 6916-6957.	1.9	42
34	Large eddy simulation/probability density function modeling of a turbulent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si195.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CH</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:r Proceedings of the Combustion Institute, 2011, 33, 1319-1330.	2.4	92
35	Weak second-order splitting schemes for Lagrangian Monte Carlo particle methods for the composition PDF/FDF transport equations. Journal of Computational Physics, 2010, 229, 1852-1878.	1.9	40
36	Investigation of trajectories of inviscid fluid particles in two-dimensional rotating boxes. Theoretical and Computational Fluid Dynamics, 2008, 22, 21-35.	0.9	3

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37	Lagrangian investigation of local extinction, re-ignition and auto-ignition in turbulent flames. Combustion Theory and Modelling, 2008, 12, 857-882.	1.0	40
38	Time-averaging strategies in the finite-volume/particle hybrid algorithm for the joint PDF equation of turbulent reactive flows. Combustion Theory and Modelling, 2008, 12, 529-544.	1.0	24
39	Comprehensive chemical kinetic modeling of turbulent methane/air piloted jet flames. Combustion and Flame, 2007, 151, 386-390.	2.8	1
40	The effect of mixing models in PDF calculations of piloted jet flames. Proceedings of the Combustion Institute, 2007, 31, 1543-1550.	2.4	100
41	Detailed numerical simulation of thermal radiation influence in Sandia flame D. International Journal of Heat and Mass Transfer, 2006, 49, 2347-2355.	2.5	19
42	Steady flamelet modelling of a turbulent non-premixed flame considering scalar dissipation rate fluctuations. Fluid Dynamics Research, 2005, 37, 133-153.	0.6	8
43	Fluctuating characteristics of radiative source term in hydrogen turbulent jet diffusion flame. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 87, 193-201.	1.1	4
44	PDF modelling of turbulent non-premixed combustion with detailed chemistry. Chemical Engineering Science, 2004, 59, 3477-3490.	1.9	31