

Haifeng Wang

List of Publications by Year in descending order

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44
papers

1,100
citations

393982

19
h-index

414034

32
g-index

44
all docs

44
docs citations

44
times ranked

560
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	The effect of mixing models in PDF calculations of piloted jet flames. Proceedings of the Combustion Institute, 2007, 31, 1543-1550.	2.4	100
3	Large eddy simulation/probability density function modeling of a turbulent CH ₄ /air mixture. Proceedings of the Combustion Institute, 2011, 33, 1319-1330.	2.4	92
4	Large-eddy simulation/probability density function modeling of a non-premixed CO/H ₂ temporally evolving jet flame. Proceedings of the Combustion Institute, 2013, 34, 1241-1249.	2.4	67
5	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
6	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
7	Lagrangian investigation of local extinction, re-ignition and auto-ignition in turbulent flames. Combustion Theory and Modelling, 2008, 12, 857-882.	1.0	40
8	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
9	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
10	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
11	PDF modelling of turbulent non-premixed combustion with detailed chemistry. Chemical Engineering Science, 2004, 59, 3477-3490.	1.9	31
12	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
13	Consistent flamelet modeling of differential molecular diffusion for turbulent non-premixed flames. Physics of Fluids, 2016, 28, .	1.6	28
14	Computationally-efficient and scalable parallel implementation of chemistry in simulations of turbulent combustion. Combustion and Flame, 2012, 159, 3096-3109.	2.8	27
15	Effect of molecular transport on PDF modeling of turbulent non-premixed flames. Proceedings of the Combustion Institute, 2015, 35, 1137-1145.	2.4	25
16	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
17	A novel transient turbulent jet flame for studying turbulent combustion. Proceedings of the Combustion Institute, 2013, 34, 1251-1259.	2.4	21
18	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

#	ARTICLE	IF	CITATIONS
19	Detailed numerical simulation of thermal radiation influence in Sandia flame D. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 2347-2355.	2.5	19
20	A unified view of pilot stabilized turbulent jet flames for model assessment across different combustion regimes. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1693-1703.	2.4	18
21	LES/PDF Modeling of Turbulent Premixed Flames with Locally Enhanced Mixing by Reaction. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 147-175.	1.4	18
22	Examination of the effect of differential molecular diffusion in DNS of turbulent non-premixed flames. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11879-11892.	3.8	16
23	Turbulence Resolution Scale Dependence in Large-Eddy Simulations of a Jet Flame. <i>Flow, Turbulence and Combustion</i> , 2012, 88, 529-561.	1.4	12
24	Studies of the flow and turbulence fields in a turbulent pulsed jet flame using LES/PDF. <i>Combustion Theory and Modelling</i> , 2017, 21, 897-924.	1.0	12
25	Propagation and extinction behavior of methane/air premixed flames through straight and converging-diverging microchannels. <i>Applied Thermal Engineering</i> , 2019, 148, 1395-1406.	3.0	11
26	Consistency and convergence of Eulerian Monte Carlo field method for solving transported probability density function equation in turbulence modeling. <i>Physics of Fluids</i> , 2018, 30, .	1.6	10
27	A comparison of different approaches to integrate flamelet tables with presumed-shape PDF in flamelet models for turbulent flames. <i>Combustion Theory and Modelling</i> , 2017, 21, 603-629.	1.0	9
28	Variance consistent mean shift particle model for treating differential molecular diffusion in transported PDF methods for turbulent reactive flows. <i>Computers and Fluids</i> , 2018, 170, 53-76.	1.3	9
29	Steady flamelet modelling of a turbulent non-premixed flame considering scalar dissipation rate fluctuations. <i>Fluid Dynamics Research</i> , 2005, 37, 133-153.	0.6	8
30	A priori analysis of a power-law mixing model for transported PDF model based on high Karlovitz turbulent premixed DNS flames. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2917-2927.	2.4	7
31	Computational investigations of the coupling between transient flame dynamics and thermo-acoustic instability in a self-excited resonance combustor. <i>Combustion Theory and Modelling</i> , 2019, 23, 854-884.	1.0	6
32	Consistent modeling of differential molecular diffusion to yield desired Reynolds-number power-law scaling. <i>Physics of Fluids</i> , 2018, 30, 085108.	1.6	5
33	Transported PDF modeling of compressible turbulent reactive flows by using the Eulerian Monte Carlo fields method. <i>Journal of Computational Physics</i> , 2021, 425, 109899.	1.9	5
34	Fluctuating characteristics of radiative source term in hydrogen turbulent jet diffusion flame. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 87, 193-201.	1.1	4
35	Investigation of trajectories of inviscid fluid particles in two-dimensional rotating boxes. <i>Theoretical and Computational Fluid Dynamics</i> , 2008, 22, 21-35.	0.9	3
36	Transported PDF Modeling of Thermo-Acoustic Instability in a Self-Excited Model Rocket Combustor using Eulerian Monte Carlo Fields Method. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	Flamelet Modeling of Transverse Thermo-Acoustic Instability in a Multi-Element Combustor. , 2019, , .		3
38	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
39	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
40	Comprehensive chemical kinetic modeling of turbulent methane/air piloted jet flames. Combustion and Flame, 2007, 151, 386-390.	2.8	1
41	Assessment of Differential Diffusion Effects on Soot Evolution in Piloted Non-premixed Turbulent Flames. , 2017, , .		1
42	Reynolds-number power-law scaling of differential molecular diffusion in turbulent nonpremixed combustion. Physical Review Fluids, 2018, 3, .	1.0	1
43	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
44	An Experimental and Numerical Investigation of Flame Propagation in Converging-Diverging Microchannels. , 2018, , .		0