Xu Wen

List of Publications by Year
in descending order

35 papers	668 citations	567281 15 h-index	580821 25 g-index
35 all docs	35 docs citations	35 times ranked	252 citing authors

#	Article	IF	Citations
1	LES of pulverized coal combustion with a multi-regime flamelet model. Fuel, 2017, 188, 661-671.	6.4	57
2	Large eddy simulation of a semi-industrial scale coal furnace using non-adiabatic three-stream flamelet/progress variable model. Applied Energy, 2016, 183, 1086-1097.	10.1	49
3	Evaluation of flamelet/progress variable model for laminar pulverized coal combustion. Physics of Fluids, 2017, 29, .	4.0	45
4	Advanced modeling approaches for CFD simulations of coal combustion and gasification. Progress in Energy and Combustion Science, 2021, 86, 100938.	31.2	45
5	Large eddy simulation of piloted pulverised coal combustion using extended flamelet/progress variable model. Combustion Theory and Modelling, 2017, 21, 925-953.	1.9	44
6	Large Eddy Simulation of piloted pulverized coal combustion using the velocity-scalar joint filtered density function model. Fuel, 2015, 158, 494-502.	6.4	42
7	Analysis of pulverized coal flame stabilized in a 3D laminar counterflow. Combustion and Flame, 2018, 189, 106-125.	5.2	42
8	A three mixture fraction flamelet model for multi-stream laminar pulverized coal combustion. Proceedings of the Combustion Institute, 2019, 37, 2901-2910.	3.9	35
9	Numerical investigation of the effects of volatile matter composition and chemical reaction mechanism on pulverized coal combustion characteristics. Fuel, 2017, 210, 695-704.	6.4	21
10	A generalized flamelet tabulation method for partially premixed combustion. Combustion and Flame, 2018, 198, 54-68.	5.2	21
11	Numerical investigation of coal flamelet characteristics in a laminar counterflow with detailed chemistry. Fuel, 2017, 195, 232-242.	6.4	19
12	Large-eddy simulation of multiphase combustion jet in cross-flow using flamelet model. International Journal of Multiphase Flow, 2018, 108, 211-225.	3.4	19
13	Flamelet tabulation methods for solid fuel combustion with fuel-bound nitrogen. Combustion and Flame, 2019, 209, 155-166.	5.2	17
14	A comprehensive study of flamelet tabulation methods for pulverized coal combustion in a turbulent mixing layer â€" Part I: A priori and budget analyses. Combustion and Flame, 2020, 216, 439-452.	5.2	16
15	A priori study of an extended flamelet/progress variable model for NO prediction in pulverized coal flames. Energy, 2019, 175, 768-780.	8.8	15
16	Flamelet LES of a swirl-stabilized multi-stream pulverized coal burner in air and oxy-fuel atmospheres with pollutant formation. Proceedings of the Combustion Institute, 2021, 38, 4141-4149.	3.9	15
17	Evaluation of different flamelet tabulation methods for laminar spray combustion. Physics of Fluids, 2018, 30, .	4.0	14
18	Flame structure analysis of turbulent premixed/stratified flames with H2 addition considering differential diffusion and stretch effects. Proceedings of the Combustion Institute, 2021, 38, 2993-3001.	3.9	13

#	Article	IF	Citations
19	Carrier-phase DNS of detailed NOx formation in early-stage pulverized coal combustion with fuel-bound nitrogen. Fuel, 2021, 291, 119998.	6.4	13
20	Flamelet LES of turbulent premixed/stratified flames with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.svg"><mml:msub><mml:mrow><mml:mi mathvariant="normal">H</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> addition. Combustion and Flame, 2021, 230, 111428.	5.2	13
21	Numerical investigation of droplet evaporation and transport in a turbulent spray with LES/VSJFDF model. Chemical Engineering Science, 2014, 119, 251-260.	3.8	11
22	Flamelet modeling of laminar pulverized coal combustion with different particle sizes. Advanced Powder Technology, 2019, 30, 2964-2979.	4.1	11
23	A comprehensive study of flamelet tabulation methods for pulverized coal combustion in a turbulent mixing layerâ€"Part II: Strong heat losses and multi-mode combustion. Combustion and Flame, 2020, 216, 453-467.	5.2	11
24	Strain Rate Effects on Head-on Quenching of Laminar Premixed Methane-air flames. Flow, Turbulence and Combustion, 2021, 106, 631-647.	2.6	11
25	Flame structure analysis and composition space modeling of thermodiffusively unstable premixed hydrogen flames â€" Part I: Atmospheric pressure. Combustion and Flame, 2022, 238, 111815.	5.2	10
26	Detailed analysis of early-stage NO formation in turbulent pulverized coal combustion with fuel-bound nitrogen. Proceedings of the Combustion Institute, 2021, 38, 4111-4119.	3.9	9
27	An <i>a priori</i> study of different tabulation methods for turbulent pulverised coal combustion. Combustion Theory and Modelling, 2018, 22, 505-530.	1.9	8
28	Flame structure analysis and composition space modeling of thermodiffusively unstable premixed hydrogen flames â€" Part II: Elevated pressure. Combustion and Flame, 2022, 238, 111808.	5.2	8
29	Multi-dimensional and transient effects on flamelet modeling for turbulent pulverized coal combustion. Fuel, 2019, 255, 115772.	6.4	6
30	Investigation of the ignition processes of a multi-injection flame in a Diesel engine environment using the flamelet model. Proceedings of the Combustion Institute, 2021, 38, 5605-5613.	3.9	6
31	Large-eddy simulation of a multi-injection flame in a diesel engine environment using an unsteady flamelet/progress variable approach. Physics of Fluids, 2021, 33, .	4.0	6
32	Flamelet LES of swirl-stabilized oxy-fuel flames using directly coupled multi-step solid fuel kinetics. Combustion and Flame, 2022, 241, 112062.	5.2	6
33	Flamelet tabulation methods for SOx formation in pulverized solid fuel combustion. Combustion and Flame, 2020, 218, 150-167.	5.2	4
34	Analysis and flamelet modelling for laminar pulverised coal combustion considering the wall effect. Combustion Theory and Modelling, 2019, 23, 353-375.	1.9	3
35	Effects of air and oxy-fuel atmospheres on flamelet modeling of pollutant formation in laminar counterflow solid fuel flames. Fuel, 2021, 285, 119079.	6.4	3