Oliver Stein

List of Publications by Year
in descending order

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61	1,496	257101 24	329751 37
papers	citations	h-index	g-index

62	62	62	668
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient modeling of the filtered density function in turbulent sprays using ensemble learning. Combustion and Flame, 2022, 237, 111722.	2.8	2
2	Two-phase sparse-Lagrangian MMC-LES of dilute ethanol spray flames. Proceedings of the Combustion Institute, 2021, 38, 3343-3350.	2.4	7
3	Conditional scalar dissipation rate modeling for turbulent spray flames using artificial neural networks. Proceedings of the Combustion Institute, 2021, 38, 3371-3378.	2.4	15
4	Two-phase coupling for MMC-LES of spray combustion. Proceedings of the Combustion Institute, 2021, 38, 3361-3369.	2.4	3
5	Effects of air and oxy-fuel atmospheres on flamelet modeling of pollutant formation in laminar counterflow solid fuel flames. Fuel, 2021, 285, 119079.	3.4	3
6	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.	2.4	9
7	Large eddy simulation of Cambridge bluff-body coal (CCB2) flames with a flamelet progress variable model. Proceedings of the Combustion Institute, 2021, 38, 5347-5354.	2.4	2
8	Numerical Analysis of a Turbulent Pulverized Coal Flame Using a Flamelet/Progress Variable Approach and Modeling Experimental Artifacts. Energy & Fuels, 2021, 35, 7133-7143.	2.5	10
9	Numerical Investigation of Spray Collapse in GDI with OpenFOAM. Fluids, 2021, 6, 104.	0.8	8
10	Carrier-phase DNS of detailed NOx formation in early-stage pulverized coal combustion with fuel-bound nitrogen. Fuel, 2021, 291, 119998.	3.4	13
11	Investigation of Turbulent Pulverized Solid Fuel Combustion with Detailed Homogeneous and Heterogeneous Kinetics. Energy & Fuels, 2021, 35, 7077-7091.	2.5	5
12	Sparse-Lagrangian PDF Modelling of Silica Synthesis from Silane Jets in Vitiated Co-flows with Varying Inflow Conditions. Flow, Turbulence and Combustion, 2021, 106, 1167-1194.	1.4	5
13	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.	2.8	16
14	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.	2.8	11
15	Analysis of Gas-Assisted Pulverized Coal Combustion in Cambridge Coal Burner CCB1 Using FPV-LES. Energy & Fuels, 2020, 34, 7477-7489.	2.5	5
16	Flamelet tabulation methods for solid fuel combustion with fuel-bound nitrogen. Combustion and Flame, 2019, 209, 155-166.	2.8	17
17	A two-phase MMC-LES model for pyrolysing solid particles in a turbulent flame. Combustion and Flame, 2019, 209, 322-336.	2.8	10
18	Multi-dimensional and transient effects on flamelet modeling for turbulent pulverized coal combustion. Fuel, 2019, 255, 115772.	3.4	6

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19	Sparse-Lagrangian MMC modelling of the Sandia DME flame series. Combustion and Flame, 2019, 208, 110-121.	2.8	18
20	A new perspective on modelling passive scalar conditional mixing statistics in turbulent spray flames. Combustion and Flame, 2019, 208, 376-387.	2.8	7
21	Detailed simulations for flamelet modelling of SO x formation from coal. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900367.	0.2	0
22	Evaluation of a flamelet/progress variable approach for pulverized coal combustion in a turbulent mixing layer. Proceedings of the Combustion Institute, 2019, 37, 2927-2934.	2.4	31
23	Joint experimental and numerical study of silica particulate synthesis in a turbulent reacting jet. Proceedings of the Combustion Institute, 2019, 37, 1213-1220.	2.4	13
24	Modeling stratified flames with and without shear using multiple mapping conditioning. Proceedings of the Combustion Institute, 2019, 37, 2317-2324.	2.4	9
25	Fully-resolved simulations of coal particle combustion using a detailed multi-step approach for heterogeneous kinetics. Fuel, 2019, 240, 75-83.	3.4	40
26	A stochastic multiple mapping conditioning computational model in OpenFOAM for turbulent combustion. Computers and Fluids, 2018, 172, 410-425.	1.3	36
27	Carrier-phase DNS of pulverized coal particle ignition and volatile burning in a turbulent mixing layer. Fuel, 2018, 212, 364-374.	3.4	46
28	Fully resolved DNS of droplet array combustion in turbulent convective flows and modelling for mixing fields in inter-droplet space. Combustion and Flame, 2018, 189, 347-366.	2.8	23
29	MMC-LES of a syngas mixing layer using an anisotropic mixing time scale model. Combustion and Flame, 2018, 189, 311-314.	2.8	8
30	Coal and Biomass Combustion. Journal of Combustion, 2018, 2018, 1-2.	0.5	2
31	A two-phase MMCâ€“LES model for turbulent spray flames. Combustion and Flame, 2018, 193, 424-439.	2.8	22
32	Coal particle volatile combustion and flame interaction. Part II: Effects of particle Reynolds number and turbulence. Fuel, 2018, 234, 723-731.	3.4	33
33	Multiple mapping conditioning coupled with an artificially thickened flame model for turbulent premixed combustion. Combustion and Flame, 2018, 196, 325-336.	2.8	8
34	Coal particle volatile combustion and flame interaction. Part I: Characterization of transient and group effects. Fuel, 2018, 229, 262-269.	3.4	33
35	MMC-LES modelling of droplet nucleation and growth in turbulent jets. Chemical Engineering Science, 2017, 167, 204-218.	1.9	26
36	Assessment of mixing time scales for a sparse particle method. Combustion and Flame, 2017, 179, 280-299.	2.8	43

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37	Multiple mapping conditioning for silica nanoparticle nucleation in turbulent flows. Proceedings of the Combustion Institute, 2017, 36, 1089-1097.	2.4	20
38	LES-CMC of a Partially Premixed, Turbulent Dimethyl Ether Jet Diffusion Flame. Flow, Turbulence and Combustion, 2017, 98, 803-816.	1.4	3
39	Assessment of scaling laws for mixing fields in inter-droplet space. Proceedings of the Combustion Institute, 2017, 36, 2451-2458.	2.4	12
40	Flamelet LES modeling of coal combustion with detailed devolatilization by directly coupled CPD. Proceedings of the Combustion Institute, 2017, 36, 2181-2189.	2.4	76
41	A flamelet/progress variable approach for modeling coal particle ignition. Fuel, 2017, 201, 29-38.	3.4	32
42	Resolved flow simulation of pulverized coal particle devolatilization and ignition in air- and O 2 /CO 2 -atmospheres. Fuel, 2016, 186, 285-292.	3.4	59
43	Large eddy simulation of dilute acetone spray flames using CMC coupled with tabulated chemistry. Proceedings of the Combustion Institute, 2015, 35, 1667-1674.	2.4	33
44	Large Eddy Simulation of piloted pulverized coal combustion using the velocity-scalar joint filtered density function model. Fuel, 2015, 158, 494-502.	3.4	42
45	Imaging measurements and LES-CMC modeling of a partially-premixed turbulent dimethyl ether/air jet flame. Proceedings of the Combustion Institute, 2015, 35, 1251-1258.	2.4	31
46	LES of swirl-stabilised pulverised coal combustion in IFRF furnace No. 1. Proceedings of the Combustion Institute, 2015, 35, 2819-2828.	2.4	61
47	A posteriori testing of the flame surface density transport equationÂforÂLES. Combustion Theory and Modelling, 2014, 18, 32-64.	1.0	24
48	Evaluation of scale resolving turbulence generation methods for Large Eddy Simulation of turbulent flows. Computers and Fluids, 2014, 93, 116-128.	1.3	19
49	Simulation of Dilute Acetone Spray Flames with LES-CMC Using Two Conditional Moments. Flow, Turbulence and Combustion, 2014, 93, 405-423.	1.4	17
50	Comparison of the Sigma and Smagorinsky LES models for grid generated turbulence and a channel flow. Computers and Fluids, 2014, 99, 172-181.	1.3	46
51	A posteriori testing of algebraic flame surface density models for LES. Combustion Theory and Modelling, 2013, 17, 431-482.	1.0	76
52	LES-CMC of a dilute acetone spray flame. Proceedings of the Combustion Institute, 2013, 34, 1643-1650.	2.4	47
53	Towards Comprehensive Coal Combustion Modelling for LES. Flow, Turbulence and Combustion, 2013, 90, 859-884.	1.4	117
54	LES of lifted flames in a gas turbine model combustor using top-hat filtered PFGM chemistry. Fuel, 2012, 96, 100-107.	3.4	37

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55	Large Eddy Simulation of non-reacting gas flow in a 40 MW pulverised coal combustor. Progress in Computational Fluid Dynamics, 2011, 11, 397.	0.1	4
56	Quality Issues in Combustion LES. Journal of Scientific Computing, 2011, 49, 51-64.	1.1	6
57	Highly-resolved LES and PIV Analysis of Isothermal Turbulent Opposed Jets for Combustion Applications. Flow, Turbulence and Combustion, 2011, 87, 425-447.	1.4	29
58	In-Nozzle Measurements of a Turbulent Opposed Jet Using PIV. Flow, Turbulence and Combustion, 2010, 85, 73-93.	1.4	24
59	Large Eddy Simulations of Swirling Non-premixed Flames With Flamelet Models: A Comparison of Numerical Methods. Flow, Turbulence and Combustion, 2008, 81, 523-561.	1.4	46
60	LES OF THE SYDNEY SWIRL FLAME SERIES: AN INITIAL INVESTIGATION OF THE FLUID DYNAMICS. Combustion Science and Technology, 2007, 179, 173-189.	1.2	31
61	LES of the Sydney swirl flame series: A study of vortex breakdown in isothermal and reacting flows. Proceedings of the Combustion Institute, 2007, 31, 1755-1763.	2.4	59