

# Stephen B Pope

## List of Publications by Citations

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163  
papers

18,369  
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57  
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134  
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167  
ext. papers

20,344  
ext. citations

4.1  
avg, IF

7.36  
L-index

#	Paper	IF	Citations
163	Turbulent Flows <b>2000</b> ,		5660
162	Simplifying chemical kinetics: Intrinsic low-dimensional manifolds in composition space. <i>Combustion and Flame</i> , <b>1992</b> , 88, 239-264	5.3	1099
161	Ten questions concerning the large-eddy simulation of turbulent flows. <i>New Journal of Physics</i> , <b>2004</b> , 6, 35-35	2.9	614
160	A more general effective-viscosity hypothesis. <i>Journal of Fluid Mechanics</i> , <b>1975</b> , 72, 331	3.7	547
159	An examination of forcing in direct numerical simulations of turbulence. <i>Computers and Fluids</i> , <b>1988</b> , 16, 257-278	2.8	455
158	An explanation of the turbulent round-jet/plane-jet anomaly. <i>AIAA Journal</i> , <b>1978</b> , 16, 279-281	2.1	448
157	Direct numerical simulations of the turbulent mixing of a passive scalar. <i>Physics of Fluids</i> , <b>1988</b> , 31, 506		382
156	Lagrangian statistics from direct numerical simulations of isotropic turbulence. <i>Journal of Fluid Mechanics</i> , <b>1989</b> , 207, 531-586	3.7	374
155	The evolution of surfaces in turbulence. <i>International Journal of Engineering Science</i> , <b>1988</b> , 26, 445-469	5.7	339
154	A mixing model for turbulent reactive flows based on Euclidean minimum spanning trees. <i>Combustion and Flame</i> , <b>1998</b> , 115, 487-514	5.3	316
153	Filtered mass density function for large-eddy simulation of turbulent reacting flows. <i>Journal of Fluid Mechanics</i> , <b>1999</b> , 401, 85-121	3.7	263
152	An algorithm for tracking fluid particles in numerical simulations of homogeneous turbulence. <i>Journal of Computational Physics</i> , <b>1988</b> , 79, 373-416	4.1	249
151	A generalized Langevin model for turbulent flows. <i>Physics of Fluids</i> , <b>1986</b> , 29, 387		228
150	PDF calculations of turbulent nonpremixed flames with local extinction. <i>Combustion and Flame</i> , <b>2000</b> , 123, 281-307	5.3	225
149	Small scales, many species and the manifold challenges of turbulent combustion. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 1-31	5.9	205
148	Material-element deformation in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , <b>1990</b> , 220, 427-458	3.7	164
147	The probability approach to the modelling of turbulent reacting flows. <i>Combustion and Flame</i> , <b>1976</b> , 27, 299-312	5.3	145

146	Turbulent Premixed Flames. <i>Annual Review of Fluid Mechanics</i> , <b>1987</b> , 19, 237-270	22	141
145	Turbulent lifted flames in a vitiated coflow investigated using joint PDF calculations. <i>Combustion and Flame</i> , <b>2005</b> , 142, 438-453	5.3	136
144	A Hybrid Algorithm for the Joint PDF Equation of Turbulent Reactive Flows. <i>Journal of Computational Physics</i> , <b>2001</b> , 166, 218-252	4.1	131
143	A Consistent Hybrid Finite-Volume/Particle Method for the PDF Equations of Turbulent Reactive Flows. <i>Journal of Computational Physics</i> , <b>1999</b> , 154, 342-371	4.1	130
142	The velocity-dissipation probability density function model for turbulent flows. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1990</b> , 2, 1437-1449		127
141	Universal intermittent properties of particle trajectories in highly turbulent flows. <i>Physical Review Letters</i> , <b>2008</b> , 100, 254504	7.4	123
140	An Improved Turbulent Mixing Model. <i>Combustion Science and Technology</i> , <b>1982</b> , 28, 131-145	1.5	123
139	The Hybrid Method for the PDF Equations of Turbulent Reactive Flows: Consistency Conditions and Correction Algorithms. <i>Journal of Computational Physics</i> , <b>2001</b> , 172, 841-878	4.1	121
138	An investigation of the accuracy of manifold methods and splitting schemes in the computational implementation of combustion chemistry. <i>Combustion and Flame</i> , <b>1998</b> , 112, 16-32	5.3	119
137	Probability density function calculations of local extinction and no production in piloted-jet turbulent methane/air flames. <i>Proceedings of the Combustion Institute</i> , <b>2000</b> , 28, 133-139	5.9	111
136	Calculations of premixed turbulent flames by PDF methods. <i>Combustion and Flame</i> , <b>1987</b> , 67, 127-142	5.3	111
135	An improved algorithm for in situ adaptive tabulation. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 361-386	4.1	109
134	Straining and scalar dissipation on material surfaces in turbulence: Implications for flamelets. <i>Combustion and Flame</i> , <b>1990</b> , 79, 340-365	5.3	107
133	The calculation of turbulent recirculating flows in general orthogonal coordinates. <i>Journal of Computational Physics</i> , <b>1978</b> , 26, 197-217	4.1	105
132	The influence of chemical mechanisms on PDF calculations of nonpremixed piloted jet flames?. <i>Combustion and Flame</i> , <b>2005</b> , 143, 450-470	5.3	103
131	A numerical study of auto-ignition in turbulent lifted flames issuing into a vitiated co-flow. <i>Combustion Theory and Modelling</i> , <b>2007</b> , 11, 351-376	1.5	101
130	The calculation of near-wake flows. <i>Journal of Fluid Mechanics</i> , <b>1976</b> , 73, 9-32	3.7	99
129	Transport budgets in turbulent lifted flames of methane autoigniting in a vitiated co-flow. <i>Combustion and Flame</i> , <b>2007</b> , 151, 495-511	5.3	98

- 128 A particle formulation for treating differential diffusion in filtered density function methods. *Journal of Computational Physics*, **2007**, 226, 947-993 4.1 96
- 127 The effect of mixing models in PDF calculations of piloted jet flames. *Proceedings of the Combustion Institute*, **2007**, 31, 1543-1550 5.9 92
- 126 A diffusion model for velocity gradients in turbulence. *Physics of Fluids A, Fluid Dynamics*, **1990**, 2, 242-256 87
- 125 Consistent modeling of scalars in turbulent flows. *Physics of Fluids*, **1983**, 26, 404 86
- 124 A pdf modeling study of self-similar turbulent free shear flows. *Physics of Fluids*, **1987**, 30, 1026 84
- 123 Assessment of Numerical Accuracy of PDF/Monte Carlo Methods for Turbulent Reacting Flows. *Journal of Computational Physics*, **1999**, 152, 192-230 4.1 83
- 122 Large eddy simulation/probability density function modeling of a turbulent . *Proceedings of the Combustion Institute*, **2011**, 33, 1319-1330 5.9 81
- 121 The invariant constrained equilibrium edge preimage curve method for the dimension reduction of chemical kinetics. *Journal of Chemical Physics*, **2006**, 124, 114111 3.9 80
- 120 An investigation of the performance of turbulent mixing models. *Combustion and Flame*, **2004**, 136, 208-216 78
- 119 Probability density function and Reynolds-stress modeling of near-wall turbulent flows. *Physics of Fluids*, **1997**, 9, 154-163 4.4 75
- 118 The vanishing effect of molecular diffusivity on turbulent dispersion: implications for turbulent mixing and the scalar flux. *Journal of Fluid Mechanics*, **1998**, 359, 299-312 3.7 73
- 117 Transport equation for the joint probability density function of velocity and scalars in turbulent flow. *Physics of Fluids*, **1981**, 24, 588 72
- 116 PDF modeling of a bluff-body stabilized turbulent flame. *Combustion and Flame*, **2003**, 132, 115-137 5.3 67
- 115 An analysis of the structure of an n-dodecane spray flame using TPDF modelling. *Combustion and Flame*, **2016**, 168, 420-435 5.3 65
- 114 Calculations of bluff-body stabilized flames using a joint probability density function model with detailed chemistry. *Combustion and Flame*, **2005**, 141, 89-117 5.3 62
- 113 Stationary probability density functions: An exact result. *Physics of Fluids A, Fluid Dynamics*, **1993**, 5, 1529-1531 62
- 112 The curvature of material surfaces in isotropic turbulence. *Physics of Fluids A, Fluid Dynamics*, **1989**, 1, 2010-2018 62
- 111 Treating chemistry in combustion with detailed mechanisms in situ adaptive tabulation in principal directions in premixed combustion. *Combustion and Flame*, **1998**, 112, 85-112 5.3 61

110	Guidelines for the formulation of Lagrangian stochastic models for particle simulations of single-phase and dispersed two-phase turbulent flows. <i>Physics of Fluids</i> , <b>2014</b> , 26, 113303	4.4	59
109	Large-eddy simulation/probability density function modeling of a non-premixed CO/H2 temporally evolving jet flame. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 1241-1249	5.9	58
108	Second-order splitting schemes for a class of reactive systems. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 8165-8176	4.1	58
107	Self-conditioned fields for large-eddy simulations of turbulent flows. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 652, 139-169	3.7	57
106	Operator-splitting with ISAT to model reacting flow with detailed chemistry. <i>Combustion Theory and Modelling</i> , <b>2006</b> , 10, 199-217	1.5	57
105	Exploiting ISAT to solve the reaction-diffusion equation. <i>Combustion Theory and Modelling</i> , <b>2004</b> , 8, 361-383		57
104	Consistency conditions for random-walk models of turbulent dispersion. <i>Physics of Fluids</i> , <b>1987</b> , 30, 2374		57
103	Probability density function/Monte Carlo simulation of near-wall turbulent flows. <i>Journal of Fluid Mechanics</i> , <b>1998</b> , 357, 141-166	3.7	55
102	Simple models of turbulent flows a). <i>Physics of Fluids</i> , <b>2011</b> , 23, 011301	4.4	54
101	A deterministic forcing scheme for direct numerical simulations of turbulence. <i>Computers and Fluids</i> , <b>1998</b> , 27, 11-28	2.8	54
100	Stochastic Lagrangian models of velocity in homogeneous turbulent shear flow. <i>Physics of Fluids</i> , <b>2002</b> , 14, 1696-1702	4.4	52
99	Particle Method for Turbulent Flows: Integration of Stochastic Model Equations. <i>Journal of Computational Physics</i> , <b>1995</b> , 117, 332-349	4.1	52
98	PDF calculations of piloted turbulent nonpremixed flames of methane. <i>Combustion and Flame</i> , <b>1990</b> , 81, 13-29	5.3	51
97	Implementation of combustion chemistry by in situ adaptive tabulation of rate-controlled constrained equilibrium manifolds. <i>Proceedings of the Combustion Institute</i> , <b>2002</b> , 29, 1411-1417	5.9	49
96	Combined dimension reduction and tabulation strategy using ISAT-CCEDGALI for the efficient implementation of combustion chemistry. <i>Combustion and Flame</i> , <b>2011</b> , 158, 2113-2127	5.3	48
95	PDF Simulations of a Bluff-Body Stabilized Flow. <i>Journal of Computational Physics</i> , <b>2001</b> , 169, 1-23	4.1	48
94	Effects of combined dimension reduction and tabulation on the simulations of a turbulent premixed flame using a large-eddy simulation/probability density function method. <i>Combustion Theory and Modelling</i> , <b>2014</b> , 18, 388-413	1.5	47
93	A Lagrangian two-time probability density function equation for inhomogeneous turbulent flows. <i>Physics of Fluids</i> , <b>1983</b> , 26, 3448		47

92	Comparison of mixing model performance for nonpremixed turbulent reactive flow. <i>Combustion and Flame</i> , <b>1999</b> , 117, 732-754	5.3	46
91	Modeling of extinction in turbulent diffusion flames by the velocity-dissipation-composition PDF method. <i>Combustion and Flame</i> , <b>1995</b> , 100, 211-220	5.3	46
90	Application of the velocity-dissipation probability density function model to inhomogeneous turbulent flows. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1991</b> , 3, 1947-1957		46
89	Propagating surfaces in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , <b>1992</b> , 234, 247	3.7	46
88	Computational study of lean premixed turbulent flames using RANSPDF and LESPDF methods. <i>Combustion Theory and Modelling</i> , <b>2013</b> , 17, 610-656	1.5	45
87	A model for turbulent mixing based on shadow-position conditioning. <i>Physics of Fluids</i> , <b>2013</b> , 25, 110803	4.4	44
86	Differential diffusion of passive scalars in isotropic turbulence. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1993</b> , 5, 2467-2478		44
85	The use of slow manifolds in reactive flows. <i>Combustion and Flame</i> , <b>2006</b> , 147, 243-261	5.3	43
84	In Situ Detailed Chemistry Calculations in Combustor Flow Analyses. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2001</b> , 123, 747-756	1.7	43
83	A stochastic Lagrangian model for acceleration in turbulent flows. <i>Physics of Fluids</i> , <b>2002</b> , 14, 2360	4.4	41
82	Simulation of Sandia Flame D Using Velocity-Scalar Filtered Density Function. <i>AIAA Journal</i> , <b>2010</b> , 48, 1513-1522	2.1	40
81	Lagrangian investigation of local extinction, re-ignition and auto-ignition in turbulent flames. <i>Combustion Theory and Modelling</i> , <b>2008</b> , 12, 857-882	1.5	39
80	Turbulent mixing model based on ordered pairing. <i>Combustion and Flame</i> , <b>1991</b> , 83, 27-42	5.3	39
79	Gibbs function continuation for the stable computation of chemical equilibrium. <i>Combustion and Flame</i> , <b>2004</b> , 139, 222-226	5.3	38
78	Reduced description of reactive flows with tabulation of chemistry. <i>Combustion Theory and Modelling</i> , <b>2011</b> , 15, 827-848	1.5	37
77	Lagrangian conditional statistics, acceleration and local relative motion in numerically simulated isotropic turbulence. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 582, 399-422	3.7	37
76	Large-scale parallel simulations of turbulent combustion using combined dimension reduction and tabulation of chemistry. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 205-215	5.9	36
75	Computationally efficient implementation of combustion chemistry in parallel PDF calculations. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 5490-5525	4.1	36

74	Weak second-order splitting schemes for Lagrangian Monte Carlo particle methods for the composition PDF/FDF transport equations. <i>Journal of Computational Physics</i> , <b>2010</b> , 229, 1852-1878	4.1	36
73	Species reconstruction using pre-image curves. <i>Proceedings of the Combustion Institute</i> , <b>2005</b> , 30, 1293-1300	3.0	36
72	Comparative study of micromixing models in transported scalar PDF simulations of turbulent nonpremixed bluff body flames. <i>Combustion and Flame</i> , <b>2006</b> , 146, 109-130	5.3	35
71	A more accurate projection in the rate-controlled constrained-equilibrium method for dimension reduction of combustion chemistry. <i>Combustion Theory and Modelling</i> , <b>2004</b> , 8, 255-279	1.5	35
70	Numerical implementation of mixing and molecular transport in LES/PDF studies of turbulent reacting flows. <i>Journal of Computational Physics</i> , <b>2011</b> , 230, 6916-6957	4.1	34
69	Nonpremixed turbulent reacting flow near extinction. <i>Combustion and Flame</i> , <b>1995</b> , 101, 501-528	5.3	34
68	A greedy algorithm for species selection in dimension reduction of combustion chemistry. <i>Combustion Theory and Modelling</i> , <b>2010</b> , 14, 619-652	1.5	33
67	PDF calculations of piloted premixed jet flames. <i>Combustion Theory and Modelling</i> , <b>2011</b> , 15, 245-266	1.5	33
66	PDF Model Calculations of Compressible Turbulent Flows Using Smoothed Particle Hydrodynamics. <i>Journal of Computational Physics</i> , <b>1997</b> , 134, 150-168	4.1	33
65	Experimental study of velocity filtered joint density function for large eddy simulation. <i>Physics of Fluids</i> , <b>2004</b> , 16, 3599-3613	4.4	33
64	Modeling unsteady reacting flow with operator splitting and ISAT. <i>Combustion and Flame</i> , <b>2006</b> , 147, 150-162	5.3	31
63	Calculations of a Plane Turbulent Jet. <i>AIAA Journal</i> , <b>1984</b> , 22, 896-904	2.1	31
62	Modelling effects of subgrid-scale mixture fraction variance in LES of a piloted diffusion flame. <i>Combustion Theory and Modelling</i> , <b>2012</b> , 16, 611-638	1.5	30
61	Molecular diffusion effects in LES of a piloted methane-air flame. <i>Combustion and Flame</i> , <b>2011</b> , 158, 240-254	5.3	30
60	PDF calculations of major and minor species in a turbulent piloted jet flame. <i>Proceedings of the Combustion Institute</i> , <b>1998</b> , 27, 1081-1086		30
59	PDF simulations of turbulent combustion incorporating detailed chemistry. <i>Combustion and Flame</i> , <b>1999</b> , 117, 340-350	5.3	29
58	Monte Carlo Calculations of Turbulent Diffusion Flames. <i>Combustion Science and Technology</i> , <b>1984</b> , 42, 13-45	1.5	29
57	An investigation of turbulent premixed counterflow flames using large-eddy simulations and probability density function methods. <i>Combustion and Flame</i> , <b>2016</b> , 166, 229-242	5.3	29

56	Large eddy simulation/probability density function simulations of the Cambridge turbulent stratified flame series. <i>Combustion and Flame</i> , <b>2019</b> , 199, 24-45	5.3	29
55	Efficient Implementation of Chemistry in Computational Combustion. <i>Flow, Turbulence and Combustion</i> , <b>2009</b> , 82, 437-453	2.5	28
54	Computationally-efficient and scalable parallel implementation of chemistry in simulations of turbulent combustion. <i>Combustion and Flame</i> , <b>2012</b> , 159, 3096-3109	5.3	27
53	Application of the ICE-PIC method for the dimension reduction of chemical kinetics coupled with transport. <i>Proceedings of the Combustion Institute</i> , <b>2007</b> , 31, 473-481	5.9	27
52	Numerical integration of stochastic differential equations: weak second-order mid-point scheme for application in the composition PDF method. <i>Journal of Computational Physics</i> , <b>2003</b> , 185, 194-212	4.1	27
51	Specific volume coupling and convergence properties in hybrid particle/finite volume algorithms for turbulent reactive flows. <i>Journal of Computational Physics</i> , <b>2015</b> , 294, 110-126	4.1	26
50	Wall-function treatment in pdf methods for turbulent flows. <i>Physics of Fluids</i> , <b>1997</b> , 9, 2692-2703	4.4	26
49	Turbulent dispersion from line sources in grid turbulence. <i>Physics of Fluids</i> , <b>2008</b> , 20, 101514	4.4	26
48	Monte Carlo solutions of a joint PDF equation for turbulent flows in general orthogonal coordinates. <i>Journal of Computational Physics</i> , <b>1987</b> , 72, 311-346	4.1	26
47	Large eddy simulation/probability density function simulations of bluff body stabilized flames. <i>Combustion and Flame</i> , <b>2014</b> , 161, 3100-3133	5.3	25
46	Simulations of a turbulent non-premixed flame using combined dimension reduction and tabulation for combustion chemistry. <i>Fuel</i> , <b>2013</b> , 105, 636-644	7.1	25
45	A conditionally cubic-Gaussian stochastic Lagrangian model for acceleration in isotropic turbulence. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 582, 423-448	3.7	25
44	Empirical low-dimensional manifolds in composition space. <i>Combustion and Flame</i> , <b>2013</b> , 160, 1967-1980	5.3	24
43	A study of the rate-controlled constrained-equilibrium dimension reduction method and its different implementations. <i>Combustion Theory and Modelling</i> , <b>2013</b> , 17, 260-293	1.5	24
42	A pre-partitioned adaptive chemistry methodology for the efficient implementation of combustion chemistry in particle PDF methods. <i>Combustion and Flame</i> , <b>2015</b> , 162, 3236-3253	5.3	23
41	The performance of in situ adaptive tabulation in computations of turbulent flames. <i>Combustion Theory and Modelling</i> , <b>2005</b> , 9, 549-568	1.5	23
40	The parabolic edge reconstruction method (PERM) for Lagrangian particle advection. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 5447-5491	4.1	22
39	Entropy production and element conservation in the quasi-steady-state approximation. <i>Combustion and Flame</i> , <b>2004</b> , 137, 251-254	5.3	22

38	Assessment of a partial-equilibrium/monte carlo model for turbulent syngas flames. <i>Combustion and Flame</i> , <b>1988</b> , 72, 159-173	5.3	22
37	Transport-chemistry coupling in the reduced description of reactive flows. <i>Combustion Theory and Modelling</i> , <b>2007</b> , 11, 715-739	1.5	21
36	Accessed Compositions in Turbulent Reactive Flows. <i>Flow, Turbulence and Combustion</i> , <b>2004</b> , 72, 219-243.	3.5	21
35	A second-order Monte Carlo method for the solution of the Ito stochastic differential equation. <i>Stochastic Analysis and Applications</i> , <b>1986</b> , 4, 151-186	1.1	21
34	Effects of molecular transport in LES/PDF of piloted turbulent dimethyl ether/air jet flames. <i>Combustion and Flame</i> , <b>2017</b> , 176, 451-461	5.3	20
33	A novel transient turbulent jet flame for studying turbulent combustion. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 1251-1259	5.9	20
32	Sensitivity calculations in PDF modelling of turbulent flames. <i>Proceedings of the Combustion Institute</i> , <b>2009</b> , 32, 1629-1637	5.9	20
31	An investigation of mixing in a three-stream turbulent jet. <i>Physics of Fluids</i> , <b>2013</b> , 25, 105105	4.4	19
30	The relationship between the probability approach and particle models for reaction in homogeneous turbulence. <i>Combustion and Flame</i> , <b>1979</b> , 35, 41-45	5.3	19
29	LES/PDF for premixed combustion in the DNS limit. <i>Combustion Theory and Modelling</i> , <b>2016</b> , 20, 834-865.	1.5	19
28	Time-averaging strategies in the finite-volume/particle hybrid algorithm for the joint PDF equation of turbulent reactive flows. <i>Combustion Theory and Modelling</i> , <b>2008</b> , 12, 529-544	1.5	18
27	The geometry of reaction trajectories and attracting manifolds in composition space. <i>Combustion Theory and Modelling</i> , <b>2006</b> , 10, 361-388	1.5	18
26	PDF calculations of turbulent nonpremixed flames of using reduced chemical mechanisms. <i>Combustion and Flame</i> , <b>1993</b> , 95, 133-150	5.3	18
25	Direct numerical simulation of a statistically stationary, turbulent reacting flow. <i>Combustion Theory and Modelling</i> , <b>1999</b> , 3, 371-408	1.5	17
24	Probability Calculations for Turbulent Jet Flows with Mixing and Reaction of NO and O3. <i>Combustion Science and Technology</i> , <b>1984</b> , 37, 59-78	1.5	16
23	Reduced description of complex dynamics in reactive systems. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 8464-74	2.8	15
22	Implicit and explicit schemes for mass consistency preservation in hybrid particle/finite-volume algorithms for turbulent reactive flows. <i>Journal of Computational Physics</i> , <b>2014</b> , 257, 352-373	4.1	13
21	Turbulence Resolution Scale Dependence in Large-Eddy Simulations of a Jet Flame. <i>Flow, Turbulence and Combustion</i> , <b>2012</b> , 88, 529-561	2.5	12

20	Turbulent piloted partially-premixed flames with varying levels of O <sub>2</sub> /N <sub>2</sub> : stability limits and PDF calculations. <i>Combustion Theory and Modelling</i> , <b>2011</b> , 15, 773-793	1.5	12
19	Coagulation-induced particle-concentration fluctuations in homogeneous, isotropic turbulence. <i>Physics of Fluids</i> , <b>2002</b> , 14, 2447	4.4	12
18	A LES/PDF simulator on block-structured meshes. <i>Combustion Theory and Modelling</i> , <b>2019</b> , 23, 1-41	1.5	11
17	A Perspective on Turbulence Modeling. <i>ICASE/LaRC Interdisciplinary Series in Science and Engineering</i> , <b>1999</b> , 53-67		11
16	Comment on the article "An effective particle tracing scheme on structured/unstructured grids in hybrid finite volume/PDF Monte Carlo methods" by Li and Modest. <i>Journal of Computational Physics</i> , <b>2003</b> , 186, 356-358	4.1	10
15	Characterization of extinction/reignition events in turbulent premixed counterflow flames using strain-rate analysis. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 1919-1927	5.9	8
14	Sensitivity calculations in PDF particle methods. <i>Combustion and Flame</i> , <b>2008</b> , 153, 202-215	5.3	8
13	EPVS-FMDF for LES of High-Speed Turbulent Flows <b>2012</b> ,		7
12	Filtered Density Function Simulations of a Near-Limit Turbulent Lean Premixed Flame. <i>Journal of Propulsion and Power</i> , <b>2020</b> , 36, 381-399	1.8	7
11	An a priori DNS study of the shadow-position mixing model. <i>Combustion and Flame</i> , <b>2016</b> , 165, 223-245	5.3	6
10	An accurate time advancement algorithm for particle tracking. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 8792-8806	4.1	6
9	The implications of the probability equations for turbulent combustion models. <i>Combustion and Flame</i> , <b>1977</b> , 29, 235-246	5.3	6
8	The determination of turbulence-model statistics from the velocity-acceleration correlation. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 757,	3.7	5
7	A Simple Approach for Specifying Velocity Inflow Boundary Conditions in Simulations of Turbulent Opposed-Jet Flows. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 98, 131-153	2.5	4
6	<b>2007</b> ,		4
5	Author's reply to C. Dopazo's comments on "The probability approach to the modelling of turbulent reacting flows" <i>Combustion and Flame</i> , <b>1979</b> , 34, 103-105	5.3	4
4	A combined PPAC-RCCE-ISAT methodology for efficient implementation of combustion chemistry. <i>Combustion Theory and Modelling</i> , <b>2019</b> , 23, 1021-1053	1.5	2
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