

STEPHEN B. POPE

LIST OF PUBLICATIONS

(Updated June 13, 2020)

Books

1. S.B. Pope (2000) "*Turbulent Flows*," Cambridge University Press.

Published Research Articles

1. S.B. Pope (1975) "*A more general effective-viscosity hypothesis*," Journal of Fluid Mechanics, **72**, 331-340.
2. S.B. Pope (1976) "*The probability approach to the modeling of turbulent reacting flows*," Combustion and Flame, **27**, 299-312.
3. S.B. Pope and J. H. Whitelaw (1976) "*The calculation of near-wake flows*," Journal of Fluid Mechanics, **73**, 9-32.
4. S.B. Pope (1977) "*The implications of the probability equations for turbulent combustion models*," Combustion and Flame, **29**, 235-246.
5. S.B. Pope (1978) "*The calculation of turbulent recirculating flows in general orthogonal coordinates*," Journal of Computational Physics, **26**, 197-217.
6. S.B. Pope (1978) "*An explanation of the turbulent round-jet/plane-jet anomaly*," American Institute of Aeronautics and Astronautics Journal, **16**, 279-281.
7. S.B. Pope (1979) "*The statistical theory of turbulent flames*," Philosophical Transactions of the Royal Society of London A, **291**, 529-568.
8. S.B. Pope (1979) "*The relationship between the probability approach and particle models for reaction in homogeneous turbulence*," Combustion and Flame, **35**, 41-45.
9. S.B. Pope (1979) "*A rational method of determining probability distributions in turbulent reacting flows*," Journal of Non-Equilibrium Thermodynamics, **4**, 309-320.
10. S.B. Pope (1980) "*Probability distributions of scalars in turbulent shear flows*," Turbulent Shear Flows **2**, Ed. L.J.S. Bradbury et al., Springer-Verlag, Berlin, 7-16.
11. S.B. Pope (1981) "*Monte Carlo calculations of premixed turbulent flames*," Proceedings of the Combustion Institute, **18**, 1001-1010.
12. S.B. Pope (1981) "*A Monte Carlo method for the PDF equations of turbulent reactive flow*," Combustion Science and Technology, **25**, 159-174.
13. S.B. Pope (1981) "*Transport equation for the joint probability density function of velocity and scalars in turbulent flow*," Physics of Fluids, **24**, 588-596.

14. S.B. Pope (1982) "*The application of PDF transport equations to turbulent reactive flows,*" Journal of Non-Equilibrium Thermodynamics, **7**, 1-14.
15. S.B. Pope (1982) "*Calculations of velocity-scalar joint PDF's,*" Turbulent Shear Flows **3**, Ed. L.J.S. Bradbury et al., Springer-Verlag, Berlin, 113-123.
16. S.B. Pope (1982) "*An improved turbulent mixing model,*" Combustion Science and Technology, **28**, 131-145.
17. S.B. Pope (1983) "*Consistent modeling of scalars in turbulent flows,*" Physics of Fluids, **26**, 404-408.
18. S.B. Pope (1983) "*A Lagrangian two-time probability density function equation for inhomogeneous turbulent flows,*" Physics of Fluids, **26**, 3448-3450.
19. P. Givi, W.A. Sirignano and S.B. Pope (1984) "*Probability calculations for turbulent jet flows with mixing and reaction of NO and O₃,*" Combustion Science Technology, **37**, 59-78.
20. T.V. Nguyen and S.B. Pope (1984) "*Monte Carlo calculations of turbulent diffusion flames,*" Combustion Science and Technology, **42**, 13-45.
21. S.B. Pope (1984) "*Calculations of a plane turbulent jet,*" American Institute of Aeronautics and Astronautics Journal, **22**, 896-904.
22. S.B. Pope and M.S. Anand (1985) "*Flamelet and distributed combustion in premixed turbulent flames,*" Proceedings of the Combustion Institute, **20**, 403-410.
23. M.S. Anand and S.B. Pope (1985) "*Diffusion behind a line source in grid turbulence,*" Turbulent Shear Flows **4**, Ed. L.J.S. Bradbury et al., Springer-Verlag, Berlin, 46-61.
24. S.B. Pope (1985) "*PDF methods for turbulent reactive flows,*" Progress in Energy and Combustion Science, **11**, 119-192.
25. S.B. Pope (1985) "*Lagrangian modelling for turbulent flows,*" in Theoretical Approaches to Turbulence, Eds. D.L. Dwyer, M.Y. Hussaini, R.G. Voight, Springer-Verlag, Applied Mathematical Sciences Vol. 58, 369-373.
26. S.B. Pope and D.C. Haworth (1986) "*The mixing layer between turbulent fields of different scales,*" Turbulent Shear Flows **5**, Eds. F. Durst et al., Springer-Verlag, Berlin, 44-53.
27. D.C. Haworth and S.B. Pope (1986) "*A generalized Langevin model for turbulent flows,*" Physics of Fluids, **29**, 387-405.
28. D.C. Haworth and S.B. Pope (1986) "*A second-order Monte Carlo method for the solution of the Ito stochastic differential equation,*" Stochastic Analysis and Applications, **4**, 151-186.
29. M.S. Anand and S.B. Pope (1987) "*Calculations of premixed turbulent flames by pdf methods,*" Combustion and Flame, **67**, 127-142.
30. D.C. Haworth and S.B. Pope (1987) "*Monte Carlo solutions of a joint pdf equation for turbulent flows in general orthogonal coordinates,*" Journal of Computational Physics, **72**, 311-346.

31. D.C. Haworth and S.B. Pope (1987) "*A pdf modelling study of self-similar turbulent free shear flow*," Physics of Fluids, **30**, 1026-1044.
32. S.B. Pope (1987) "*Consistency conditions for random-walk models of turbulent dispersion*," Physics of Fluids, **30**, 2374-2379.
33. S.B. Pope (1987) "*Turbulent premixed flames*," Annual Reviews of Fluid Mechanics, **19**, 237-270.
34. S.B. Pope and W.K. Cheng (1988) "*Statistical calculations of spherical turbulent flames*," Proceedings of the Combustion Institute, **21**, 1473-1482.
35. S.B. Pope and S.M. Correa (1988) "*Joint pdf calculations of a non-equilibrium turbulent diffusion flame*," Proceedings of the Combustion Institute, **21**, 1341-1348.
36. V. Eswaran and S.B. Pope (1988) "*Direct numerical simulations of the turbulent mixing of a passive scalar*," Physics of Fluids, **31**, 506-520.
37. S.M. Correa, A. Gulati and S.B. Pope (1988) "*Assessment of partial-equilibrium/Monte-Carlo model for turbulent syngas flames*," Combustion and Flame, **72**, 159-173.
38. V. Eswaran and S.B. Pope (1988) "*An examination of forcing in direct numerical simulations of turbulence*," Computers and Fluids, **16**, 257-278.
39. S.B. Pope (1988) "*The evolution of surfaces in turbulence*," International Journal of Engineering Science, **26**, 445-469.
40. S.B. Pope and R. Gadh (1988) "*Fitting noisy data using cross-validated cubic smoothing splines*," Communications in Statistics, Simulation and Computation, **17**, 349-376.
41. P.K. Yeung and S.B. Pope (1988) "*An algorithm for tracking fluid particles in numerical simulations of homogeneous turbulence*," Journal of Computational Physics, **79**, 373-416.
42. M.S. Anand, S.B. Pope and H.C. Mongia (1989) "*A pdf method for turbulent recirculating flows*," in Turbulent Reactive Flows, Lecture Notes in Engineering, **40**, Springer-Verlag, 672-693.
43. D.C. Haworth, M.C. Drake, S.B. Pope and R.J. Blint (1989) "*The importance of time-dependent flame structures in stretched laminar flamelet models for jet diffusion flames*," Proceedings of the Combustion Institute, **22**, 589-597.
44. S.B. Pope (1989) "*Turbulent flow computations using PDF Methods*," in Recent Advances in Computational Fluid Dynamics, Lecture Notes in Engineering, Springer-Verlag, Vol. 43.
45. S.B. Pope and W.K. Cheng (1989) "*The stochastic flamelet model of turbulent premixed combustion*," Proceedings of the Combustion Institute, **22**, 781-789.
46. P.K. Yeung and S.B. Pope (1989) "*Lagrangian statistics from direct numerical simulations of isotropic turbulence*," Journal of Fluid Mechanics, **207**, 531-586.
47. S.B. Pope, P.K. Yeung and S.S. Girimaji (1989) "*The curvature of material surfaces in isotropic turbulence*," Physics of Fluids A, **1**, 2010-2018.

48. S.B. Pope (1990) "*Lagrangian microscales in turbulence*," Philosophical Transactions of the Royal Society of London, A **333**, 309-319.
49. P.K. Yeung, S.S. Girimaji and S.B. Pope (1990) "*Straining and scalar dissipation on material surfaces in turbulence: implications for flamelets*," Combustion and Flame, **79**, 340-365.
50. A.R. Masri and S.B. Pope (1990) "*PDF calculations of piloted turbulent non-premixed flames of methane*," Combustion and Flame, **81**, 13-29.
51. S.S. Girimaji and S.B. Pope (1990) "*A stochastic model for velocity gradients in turbulence*," Physics of Fluids A, **2**, 242-256.
52. S.B. Pope (1990) "*Computations of turbulent combustion: progress and challenges*," Invited Plenary Lecture, Proceedings of the Combustion Institute, **23**, 591-612.
53. S.S. Girimaji and S.B. Pope (1990) "*Material element deformation in isotropic turbulence*," Journal of Fluid Mechanics, **220**, 427-458.
54. S.B. Pope and Y.L. Chen (1990) "*The velocity-dissipation pdf model for turbulent flows*," Physics of Fluids A, **2**, 1437-1449.
55. A.T. Norris and S.B. Pope (1990) "*Turbulent mixing model based on ordered pairing*," Combustion and Flame, **83**, 27-42.
56. R.S. Cant, S.B. Pope and K.N.C. Bray (1990) "*Modelling of flamelet surface-to-volume ratio in turbulent premixed combustion*," Proceedings of the Combustion Institute, **23**, 809-815.
57. S.B. Pope (1991) "*Combustion modelling using PDF methods*," in Numerical Approaches to Combustion Modeling, (E.S. Oran and J.P. Boris, Eds.), AIAA.
58. S.B. Pope (1991) "*Mapping closures for turbulent mixing and reaction*," Theoretical and Computational Fluid Dynamics, **2**, 255-270.
59. S.B. Pope (1991) "*Application of the velocity-dissipation PDF model to inhomogeneous turbulent flows*," Physics of Fluids A, **3**, 1947-1957.
60. S.B. Pope, P.K. Yeung and S.S. Girimaji (1992) "*Stretching and bending of material surfaces in turbulence*," First-prize paper in the 1989 IBM 3090 Supercomputing Competition in: Computer Assisted Modeling on the IBM 3090, (K.R. Billingsley, H. U. Brown III and E. Derohanes, eds.) Baldwin Press, Athens, GA.
61. U.A. Maas and S.B. Pope (1992) "*Simplifying chemical kinetics: intrinsic low-dimensional manifolds in composition space*," Combustion and Flame, **88**, 239-264.
62. S.S. Girimaji and S.B. Pope (1992) "*Propagating surfaces in isotropic turbulence*," Journal of Fluid Mechanics **234**, 247-277.
63. S.M. Correa and S.B. Pope (1992) "*Comparison of a Monte Carlo PDF finite-volume mean flow model with bluff-body Raman data*," Proceedings of the Combustion Institute, **24**, 279-285.

64. U.A. Maas and S.B. Pope (1992) "*Implementation of simplified chemical kinetics based on intrinsic low-dimensional manifolds,*" Proceedings of the Combustion Institute, **24**, 103-112.
65. S.B. Pope (1993) "*PDF/Monte Carlo methods for turbulent combustion and their implementations on parallel computers,*" in Turbulence and Molecular Processes in Combustion, (Ed. T. Takeno) Elsevier.
66. S. Taing, A.R. Masri and S.B. Pope (1993) "*PDF calculations of turbulent nonpremixed flames of H_2/CO_2 using reduced chemical mechanisms,*" Combustion and Flame, **95**, 133-50.
67. S.B. Pope and E.S.C. Ching (1993) "*Stationary probability density functions in turbulence,*" Physics of Fluids A **5**, 1529-31.
68. P.K. Yeung and S.B. Pope (1993) "*Differential diffusion of passive scalars in numerically simulated stationary isotropic turbulence,*" Physics of Fluids A, **5**, 2467-78.
69. S.B. Pope (1994) "*Lagrangian PDF methods for turbulent flows,*" Annual Reviews of Fluid Mechanics, **26**, 23-63.
70. S.B. Pope (1994) "*On the relationship between stochastic Lagrangian models of turbulence and second-moment closures,*" Physics of Fluids, **6**, 973-985.
71. S.M. Correa, A. Gulati and S.B. Pope (1994) "*Raman measurements and joint PDF modeling of a non-premixed bluff-body stabilized methane flame,*" Proceedings of the Combustion Institute, **25**, 1167-1173.
72. S. Fu and S.B. Pope (1994) "*Computation of recirculating swirling flow with the GLM Reynolds stress closure,*" Acta Mechanica Sinica, **10**, 110-120.
73. U. Maas and S.B. Pope (1994) "*Laminar flame calculations using simplified chemical kinetics based on intrinsic low-dimensional manifolds,*" Proceedings of the Combustion Institute, **25**, 1349-1356.
74. Y.Y. Lee and S.B. Pope (1995) "*Non-premixed turbulent reacting flow near extinction,*" Combustion and Flame, **101**, 501-528.
75. A.T. Norris and S.B. Pope (1995) "*Modeling of extinction in turbulent diffusion flames by the velocity-dissipation-composition PDF method,*" Combustion and Flame, **100**, 211-220.
76. S.B. Pope (1995) "*Particle method for turbulent flows: integration of stochastic model equations,*" Journal of Computational Physics, **117**, 332-349.
77. F.C. Christo, A.R. Masri, E.M. Nebot and S.B. Pope (1996) "*An integrated PDF/neural network approach for simulating turbulent reacting systems,*" Proceedings of the Combustion Institute, **26**, 43-48.
78. S.B. Pope (1996) "*Reacting flows and combustion,*" in: Research Trends in Fluid Dynamics (Eds. J.L. Lumley, A. Acrivos, L.G. Leal and S. Leibovich), AIP Press, 229-243.
79. A.R. Masri, S. Subramaniam and S.B. Pope (1996) "*A mixing model to improve PDF simulation of turbulent diffusion flames,*" Proceedings of the Combustion Institute, **26**, 49-57.
80. A. Juneja and S.B. Pope (1996) "*A DNS study of turbulent mixing of two passive scalars,*" Physics of Fluids, **8**, 2161-2184.

81. M.R. Overholt and S.B. Pope (1996) "*DNS of a passive scalar with imposed mean scalar gradient in isotropic turbulence,*" *Physics of Fluids*, **8**, 3128-3148.
82. T.D. Dreeben and S.B. Pope (1997) "*Probability density function and Reynolds-stress modeling of near-wall turbulent flows,*" *Physics of Fluids*, **9**, 154-163.
83. W.C. Welton and S.B. Pope (1997) "*PDF model calculations of compressible turbulent flows using smoothed particle hydrodynamics,*" *Journal of Computational Physics*, **134**, 150-168.
84. P.R. Van Slooten and S.B. Pope (1997) "*PDF modeling of inhomogeneous turbulence with exact representation of rapid distortions,*" *Physics of Fluids*, **9**, 1085 -1105.
85. S.B. Pope (1997) "*Computationally efficient implementation of combustion chemistry using in situ adaptive tabulation,*" *Combustion Theory and Modelling*, **1**, 41- 63.
86. S.B. Pope (1997) "*Turbulence combustion modeling: fluctuations and chemistry,*" in: *Advanced Computation and Analysis of Combustion*," Eds. G.D. Roy, S.M. Frolov and P. Givi, ENAS Publishers, 310-320.
87. S.B. Pope (1997) "*New developments in PDF modelling of nonreactive and reactive turbulent flows,*" in: *Turbulence Heat and Mass Transfer 2*, Eds. K. Hanjalic and T.W.J. Peeters, Delft University Press, 35-45.
88. M.S. Anand, A.T. Hsu and S.B. Pope (1997) "*Calculations of swirl combustors using joint velocity-scalar probability density function method,*" *American Institute of Aeronautics and Astronautics Journal*, **35**, 1143-1150.
89. D.J. Delarue and S.B. Pope (1997) "*Application of PDF methods to compressible turbulent flows,*" *Physics of Fluids*, **9**, 2704 -2715.
90. T.D. Dreeben and S.B. Pope (1997) "*Wall-function treatment in PDF methods for turbulent flows,*" *Physics of Fluids*, **9**, 1085 -1105.
91. T.D. Dreeben and S.B. Pope (1998) "*PDF/Monte Carlo simulation of near-wall turbulent flows,*" *Journal of Fluid Mechanics*, **357**, 141 -166.
92. P.J. Colucci, F.A. Jaber, P. Givi and S.B. Pope (1998) "*Filtered density function for large eddy simulation of turbulent reacting flows,*" *Physics of Fluids*, **10**, 499-515.
93. M.R. Overholt and S.B. Pope (1998) "*A deterministic forcing scheme for direct numerical simulations of turbulence,*" *Computers and Fluids*, **27**, 11-28.
94. B. Yang and S.B. Pope (1998) "*An investigation of the accuracy of manifold methods and splitting schemes in the computational implementation of combustion chemistry,*" *Combustion and Flame*, **112**, 16-32.
95. S. Subramaniam and S.B. Pope (1998) "*A mixing model for turbulent reactive flows based on Euclidean minimum spanning trees,*" *Combustion and Flame*, **115**, 487-514.
96. B. Yang and S.B. Pope (1998) "*Treating chemistry in Combustion with detailed mechanisms - in situ adaptive tabulation in principle directions - premixed combustion,*" *Combustion and Flame*, **112**, 85-112.

97. S.B. Pope (1998) "*The vanishing effect of molecular diffusivity on turbulent dispersion: implications for turbulent mixing and the scalar flux,*" *Journal of Fluid Mechanics*, **359**, 299-312.
98. B.J. Delarue and S.B. Pope (1998) "*Calculations of subsonic and supersonic turbulent reacting mixing layers using probability density function methods,*" *Physics of Fluids*, **10**, 487-498.
99. V. Saxena and S.B. Pope (1998) "*PDF calculations of major and minor species in a turbulent piloted jet flame,*" *Proceedings of the Combustion Institute*, **27**, 1081-1086.
100. P.R. Van Slooten, Jayesh and S.B. Pope (1998) "*Advances in PDF modeling for inhomogeneous turbulent flows,*" *Physics of Fluids*, **10**, 246-265.
101. F.A. Jaber, P.J. Colucci, S. James, P. Givi and S.B. Pope (1999) "*Filtered mass density function for large-eddy simulation of turbulent reacting flows,*" *Journal of Fluid Mechanics*, **401**, 85-121.
102. V. Saxena and S.B. Pope (1999) "*PDF Simulations of Turbulent Combustion Incorporating Detailed Chemistry,*" *Combustion and Flame*, **117**, 340-350.
103. S. Subramaniam and S.B. Pope (1999) "*Comparison of mixing model performance for nonpremixed turbulent reactive flow,*" *Combustion and Flame*, **117**, 732-754.
104. P.R. Van Slooten and S.B. Pope (1999) "*Application of PDF modeling to swirling and nonswirling turbulent jets,*" *Flow, Turbulence and Combustion*, **62**, 295-333.
105. M.R. Overholt and S.B. Pope (1999) "*Direct numerical simulation of a statistically stationary turbulent reacting flow,*" *Combustion Theory and Modelling*, **3**, 371-408.
106. J. Xu and S.B. Pope (1999) "*Assessment of numerical accuracy of PDF/Monte Carlo methods for Turbulent Reactive Flows,*" *Journal of Computational Physics*, **152**, 192-230.
107. M. Muradoglu, P. Jenny, S.B. Pope and D.A. Caughey (1999) "*A consistent hybrid finite-volume/particle method for the PDF equations of turbulent reactive flows,*" *Journal of Computational Physics*, **154**, 342 - 371.
108. S.B. Pope (1999) "*A perspective on turbulence modeling,*" in: *Modeling Complex Turbulent Flows* Eds. M.D. Salas, J.N. Hefner and L. Sakell, Kluwer, 53-67.
109. A.R. Masri, S.B. Pope and B.B. Dally (2000) "*PDF computations of a strongly swirling nonpremixed flame stabilised on a new burner,*" *Proceedings of the Combustion Institute*, **28**, 123-131.
110. J. Xu and S.B. Pope (2000) "*PDF calculations of turbulent nonpremixed flames with local extinction,*" *Combustion and Flame*, **123**, 281-307.
111. Q. Tang, J. Xu and S.B. Pope (2000) "*PDF calculations of local extinction and NO production in piloted-jet turbulent methane/air flames,*" *Proceedings of the Combustion Institute*, **28**, 133-139.
112. P. Jenny, S.B. Pope, M. Muradoglu and D.A. Caughey (2001) "*A hybrid algorithm for the joint PDF equation for turbulent reactive flows,*" *Journal of Computational Physics*, **166**, 281-252.
113. S.B. Pope (2001) "*Large-eddy simulation using projection onto local basis functions,*" in: *Fluid Mechanics and the Environment: Dynamical Approaches*, Ed. J.L. Lumley, Springer.

114. P. Jenny, M. Muradoglu, K. Liu, S.B. Pope and D.A. Caughey (2001) "*PDF simulations of a bluff-body stabilized flow,*" Journal of Computational Physics, **169**, 1-23.
115. M. Muradoglu, S.B. Pope and D.A. Caughey (2001) "*The hybrid method for the PDF equations of turbulent reactive flows: consistency conditions and correction algorithms,*" Journal of Computational Physics, **172**, 841-878.
116. S. James, M.S. Anand, M.K. Razdan and S.B. Pope (2001) "*In situ detailed chemistry calculations in combustor flow analyses,*" ASME Journal of Engineering for Gas Turbines and Power, **123**, 747 -756.
117. M. Muradoglu and S.B. Pope (2002) "*A local time stepping algorithm for solving the PDF equations of turbulent reacting flows,*" American Institute of Aeronautics and Astronautics Journal, **40**, 1755-1763.
118. S.B. Pope (2002) "*Stochastic Lagrangian models of velocity in homogeneous turbulent shear flow,*" Physics of Fluids, **14**, 1696-1702.
119. D.L. Koch and S.B. Pope (2002) "*Coagulation-induced particle-concentration fluctuations in homogeneous, isotropic turbulence,*" Physics of Fluids, **14**, 2447-2455.
120. L.Y.M. Gicquel, P. Givi, F.A. Jaber and S.B. Pope (2002) "*Velocity filtered density function for large eddy simulation of turbulent flows,*" Physics of Fluids, **14**, 1196-1213.
121. M. Muradoglu, K. Liu and S.B. Pope (2002) "*PDF modeling of a bluff-body stabilized turbulent flame,*" Combustion and Flame, **132**, 115-137.
122. Q. Tang and S.B. Pope (2002) "*Implementation of combustion chemistry by in situ adaptive tabulation of rate-controlled constrained equilibrium manifolds,*" Proceedings of the Combustion Institute, **29**, 1411-1417.
123. S.B. Pope (2002) "*A stochastic Lagrangian model for acceleration in turbulent flows,*" Physics of Fluids, **14**, 2360-2375.
124. R. Cao and S.B. Pope (2002) "*Numerical integration of stochastic differential equations: weak second-order mid-point scheme for applications in the composition PDF method,*" Journal of Computational Physics, **185**, 194-212.
125. A.Y. Klimenko and S.B. Pope (2003) "*The modeling of turbulent reactive flows based on multiple mapping conditioning,*" Physics of Fluids, **15**, 1907-1925.
126. M.R.H. Sheikhi, T.G. Drozda, P. Givi and S.B. Pope (2003) "*Velocity-scalar filtered density function for large eddy simulation of turbulent flows,*" Physics of Fluids **15**, 2321-2337.
127. A.R. Masri, R. Cao, S.B. Pope and G.M. Goldin (2004) "*PDF calculations of turbulent lifted flames of H_2/N_2 issuing into a vitiated co-flow,*" Combustion Theory and Modelling, **8**, 1-22.
128. Q. Tang and S.B. Pope (2004) "*A more accurate projection in the rate-controlled constrained-equilibrium method for dimension reduction of combustion chemistry,*" Combustion Theory and Modelling, **8**, 255-279.

129. D. Wang, C. Tong and S.B. Pope (2004) "*Experimental study of velocity filtered joint density function for large eddy simulation,*" *Physics of Fluids*, **16**, 3599-3613.
130. S. B. Pope (2004) "*Accessed compositions in turbulent reactive flows,*" *Flow Turbulence and Combustion*, **72**, 219-243.
131. Z. Ren and S.B. Pope (2004) "*An investigation of the performance of turbulent mixing models,*" *Combustion and Flame*, **136**, 208-216.
132. Z. Ren and S.B. Pope (2004) "*Entropy production and element conservation in the quasi-steady-state approximation,*" *Combustion and Flame*, **137**, 251-254.
133. S.B. Pope (2004) "*Ten questions concerning the large-eddy simulation of turbulent flows,*" *New Journal of Physics*, **6**, 35.
134. M.A. Singer and S.B. Pope (2004) "*Exploiting ISAT to solve the equations of reacting flow,*" *Combustion Theory and Modelling*, **8**, 361-383.
135. S.B. Pope (2004) "*Gibbs function continuation for the stable computation of chemical equilibrium,*" *Combustion and Flame*, **139**, 222-226.
136. A.G. Lamorgese, D.A. Caughey and S.B. Pope (2004) "*Direct numerical simulation of homogeneous turbulence with hyperviscosity,*" *Physics of Fluids*, **17**, 015106.
137. S.B. Pope (2004) "*Advances in PDF methods for turbulent reactive flows,*" in *Advances in Turbulence X*, H.I. Andersson and P.-A. Krogstad (Eds.), CIMNE, pp. 529-536.
138. K. Liu, S.B. Pope and D.A. Caughey (2005) "*Calculations of bluff-body stabilized flames using a joint PDF model with detailed chemistry,*" *Combustion and Flame*, **141**, 89-117.
139. Z. Ren and S.B. Pope (2005) "*Species reconstruction using pre-image curves,*" *Proceeding of the Combustion Institute*, **30**, 1293-1300.
140. M.R.H. Sheikhi, T.G. Drozda, P. Givi, F.A. Jaber and S.B. Pope (2005) "*Large eddy simulation of a turbulent nonpremixed piloted methane jet flame (Sandia Flame D),*" *Proceedings of the Combustion Institute*, **30**, 549-556.
141. R.W. Bilger, S.B. Pope, K.N.C. Bray and J.F. Driscoll (2005) "*Paradigms in turbulent combustion research,*" *Proceedings of the Combustion Institute*, **30**, 21-42. (Plenary lecture at the Thirtieth International Symposium on Combustion.)
142. B.J.D. Liu and S.B. Pope (2005) "*The performance of in situ adaptive tabulation in computations of turbulent flames,*" *Combustion, Theory & Modelling*, **9**, 549-568.
143. R. Cao, S.B. Pope and A.R. Masri (2005) "*Turbulent lifted flames in a vitiated coflow investigated using joint PDF calculations,*" *Combustion and Flame*, **142**, 438-453.
144. R. Cao and S.B. Pope (2005) "*The influence of chemical mechanisms on PDF calculations of nonpremixed piloted jet flames,*" *Combustion and Flame*, **143**, 450-470.

145. S.B. Pope (2005) "*Computational modeling of turbulent flames,*" in *Frontiers of Computational Fluid Dynamics 2006*, World Scientific Publishing.
146. M.A. Singer, S.B. Pope and H.N. Najm (2006) "*Operator-splitting with ISAT to model reacting flow with detailed chemistry,*" *Combustion Theory & Modelling*, **10**, 199-217.
147. B. Merci, D. Roekaerts, B. Naud and S.B. Pope (2006) "*Comparative study of micro-mixing models in transported scalar PDF simulations of turbulent non-premixed bluff body flames,*" *Combustion and Flame*, **146**, 109-130.
148. Z. Ren, S.B. Pope, A. Vladimirov and J.M. Guckenheimer (2006) "*The invariant constrained equilibrium preimage curve method for the dimension reduction of chemical kinetics,*" *Journal of Chemical Physics*, **124**, 114111.
149. Z. Ren and S.B. Pope (2006) "*The geometry of reaction trajectories and attracting manifolds in composition space,*" *Combustion Theory and Modelling*, **10**, 361-388.
150. M.A. Singer, S.B. Pope and H.N. Najm (2006) "*Modeling unsteady reacting flow with operator-splitting and ISAT,*" *Combustion and Flame*, **147**, 150-162.
151. P.K. Yeung, S.B. Pope, A.G. Lamorgese and D.A. Donzis (2006) "*Acceleration and dissipation statistics in numerical simulations of isotropic turbulence,*" *Physics of Fluids*, **18**, 065103.
152. P.K. Yeung, S.B. Pope and B.L. Sawford (2006) "*Reynolds number dependence of Lagrangian statistics in large numerical simulations of isotropic turbulence,*" *Journal of Turbulence*, **7**(58), 1-12.
153. Z. Ren and S.B. Pope (2006) "*The use of slow manifolds in reactive flows,*" *Combustion and Flame*, **147**, 243-261.
154. Z. Ren and S.B. Pope (2007) "*Transport-chemistry coupling in the reduced description of reactive flows,*" *Combustion Theory and Modelling*, **11**, 715-739.
155. R.R. Cao, H. Wang and S.B. Pope (2007) "*The effect of mixing models in PDF calculations of piloted jet flames,*" *Proceedings of the Combustion Institute*, **31**, 1543-1550.
156. R.L. Gordon, A.R. Masri, S.B. Pope and G.M. Goldin (2007) "*A Numerical Study of Auto-ignition in Turbulent Lifted Flames Issuing into a Vitiated Co-flow,*" *Combustion Theory and Modelling* **11**, 351-376.
157. Z. Ren, S.B. Pope, A. Vladimirov and J.M. Guckenheimer (2007) "*Application of the ICE-PIC method for the dimension reduction of chemical kinetics coupled with transport,*" *Proceedings of the Combustion Institute*, **31**, 473-481.
158. R.L. Gordon, A.R. Masri, S.B. Pope and G.M. Goldin (2007) "*Transport budgets in turbulent lifted flames of methane auto-igniting in a vitiated co-flow,*" *Combustion and Flame*, **151**, 495-511.
159. P.K. Yeung, S.B. Pope, E.A. Kurth and A.G. Lamorgese (2007) "*Lagrangian conditional statistics, acceleration and local relative motion in numerically simulated isotropic turbulence,*" *Journal of Fluid Mechanics*, **582**, 399-422.
160. R. McDermott and S.B. Pope (2007) "*A particle formulation for treating differential diffusion in filtered density function methods,*" *Journal of Computational Physics*, **226**, 947-993.

161. M. R. H. Sheikhi, P. Givi and S. B. Pope (2007) "*Velocity-scalar filtered mass density function for large eddy simulation of turbulent reacting flows*," *Physics of Fluids*, **19** (9) 095106.
162. A.G. Lamorgese, S.B. Pope, P.K. Yeung and B.L. Sawford (2007) "*A conditionally cubic-Gaussian stochastic Lagrangian model for acceleration in isotropic turbulence*," *Journal of Fluid Mechanics*, **582**, 423-448.
163. R. McDermott and S.B. Pope (2008) "*The parabolic edge reconstruction method (PERM) for Lagrangian particle advection*," *Journal of Computational Physics*, **227**, 5447-5491.
164. Z. Ren and S.B. Pope (2007) "*Reduced description of complex dynamics in reactive systems*", *Journal of Physical Chemistry*, **A111** (34) 8464-8474.
165. Z. Ren and S.B. Pope (2008) "*Second-order Splitting Schemes for a Class of Reactive Systems*", *Journal of Computational Physics*, **227**, 8165-8176.
166. H. Wang and S.B. Pope (2008) "*Lagrangian investigation of local extinction, re-ignition and auto-ignition in turbulent flames*," *Combustion Theory and Modelling*, **12**, 857-882..
167. H. Wang and S.B. Pope (2008) "*Time averaging strategies in the finite-volume/particle algorithm for the joint PDF equation of turbulent reactive flows*," *Combustion Theory and Modelling*, **12**, 529-544.
168. Z. Ren and S.B. Pope (2008) "*Sensitivity calculations in PDF particle methods*," *Combustion and Flame*, **153**, 202-215.
169. P.P. Popov, R. McDermott and S.B. Pope (2008) "*An accurate time advancement algorithm for particle tracking*", *Journal of Computational Physics*, **227**, 8792-8806.
170. S. Viswanathan and S.B. Pope (2008) "*Turbulent dispersion behind line sources in grid turbulence*", *Physics of Fluids*, **20**, 101514.
171. A. Arnéodo, R. Benzi, J. Berg, L. Biferale, E. Bodenschatz, A. Busse, E. Calzavarini, B. Castaing, M. Cencini, L. Chevillard, R. Fisher, R. Grauer, H. Homann, H., D. Lamb, A.S. Lanotte, E. Lévêque, B. Lüthi, J. Mann, N. Mordant, W.-C. Müller, S. Ott, N.T. Ouellette, J-F. Pinton, S.B. Pope, S.G. Roux, F. Toschi, H. Xu and P.K. Yeung, P.K. (2008) "*Universal intermittent properties of particle trajectories in highly turbulent flows*", *Physical Review Letters*, **100**, 254504.
172. A.G. Lamorgese, S.B. Pope and P.K. Yeung (2008) "*Analysis of the conditionally cubic-Gaussian stochastic model*", *Physica Scripta*, **T132**, 014044.
173. L. Lu and S.B. Pope (2009) "*An improved algorithm for in situ adaptive tabulation*", *Journal of Computational Physics*, **228**, 361-386.
174. Z. Ren and S.B. Pope (2009) "*Sensitivity Calculations in PDF Modelling of Turbulent Flames*", *Proceedings of the Combustion Institute*, **32**, 1629-1637.
175. S.B. Pope and Z. Ren (2009) "*Efficient implementation of chemistry in computational combustion*", *Flow, Turbulence and Combustion*, **82**, 437-453.

176. L. Lu, S. R. Lantz, Z. Ren and S. B. Pope (2009) "*Computationally efficient implementation of combustion chemistry in parallel PDF calculations*", Journal of Computational Physics, **228**, 5490-5525.
177. H. Wang, P.P. Popov and S.B. Pope (2010) "*Weak Second-Order Splitting Schemes for Lagrangian Monte Carlo Particle Methods for the Composition PDF/FDF Transport Equations*", Journal of Computational Physics, **229**, 1852-1878.
178. M. R. H. Sheikhi, P. Givi and S. B. Pope (2009) "*Frequency-Velocity-Scalar Filtered Mass Density Function for Large Eddy Simulation of Turbulent Flows*," Physics of Fluids, **21**, 075102.
179. M.B. Nik, S.L. Yilmaz, P. Givi, M.R.H. Sheikhi and S.B. Pope (2010) "*Simulation of Sandia Flame D Using Velocity-Scalar Filtered Density Function*" AIAA J, **48**, 1513-1522.
180. S.B. Pope (2010) "*Self-Conditioned Fields for Large-Eddy Simulations of Turbulent Flows*," Journal of Fluid Mechanics, **652**, 139-169.
181. H. Wang and S.B. Pope (2011) "*Large Eddy Simulation/Probability Density Function Modeling of a Turbulent CH₄/H₂/N₂ Jet Flame*," Proceedings of the Combustion Institute, **33**, 1319-1330.
182. D.H. Rowinski and S.B. Pope (2011) "*PDF calculations of piloted premixed jet flames*," Combustion Theory and Modelling **15**, 245-266.
183. V. Hiremath, Z. Ren and S.B. Pope (2010) "*A Greedy Algorithm for Species Selection in Dimension Reduction of Combustion Chemistry*," Combustion Theory and Modelling, **14**, 619-652.
184. D.C. Haworth and S.B. Pope (2011) "*Transported Probability Density Function and Filtered Density Function Methods*," in Turbulent Combustion Modeling: Advances, New Trends and Perspectives, eds. T. Echekki, E. Mastorakos, Springer.
185. M. Juddoo, A.R. Masri and S.B. Pope (2011) "*Turbulent Piloted Flames Partially-Premixed with Varying Levels of O₂/N₂: Stability Limits and PDF Calculations*," Combustion Theory and Modelling, **15**, 773-793.
186. K.A. Kemenov and S.B. Pope (2011) "*Molecular diffusion effects in LES of a piloted methane-air flame*," Combustion & Flame **158**, 240-254.
187. K.A. Kemenov, H. Wang and S.B. Pope (2012) "*Modeling effects of subgrid-scale mixture fraction variance in LES of a piloted diffusion flame*," Combustion Theory and Modelling, **16**, 611-638.
188. P.P. Popov and S.B. Pope (2012) "*The Direct Richardson p-th Order (DRp) Schemes - A New Class of Time Integration Schemes for Stochastic Differential Equations*," SIAM Journal on Scientific Computing, **34**, A137-A160.
189. S. Viswanathan, H. Wang and S.B. Pope (2011) "*Numerical implementation of mixing and molecular transport in LES/PDF studies of turbulent reacting flows*", Journal of Computational Physics, **230**, 6916-6957.
190. S.B. Pope (2011) "*Simple models of turbulent flows*", Physics of Fluids **23**, 011301.
191. Z. Ren, G.M. Goldin, V. Hiremath and S.B. Pope (2011) "*Reduced description of reactive flows with tabulated chemistry*", Combustion Theory and Modelling, **15**, 827-848..

192. V. Hiremath, Z. Ren and S.B. Pope (2011) “*Combined Dimension Reduction and Tabulation Strategy using ISAT-RCCE-GALI for the Efficient Implementation of Combustion Chemistry*”, *Combustion & Flame*, **158**, 2113-2127.
193. A.Y. Klimenko and S.B. Pope (2012) “*Propagation speed of combustion and invasion waves in stochastic simulations with competitive mixing*”, *Combustion Theory and Modelling*, **16**, 679-714
194. K.A. Kemenov, H. Wang and S.B. Pope (2012) “*Turbulence resolution scale dependence in large-eddy simulation of a jet flame*”, *Flow, Turbulence and Combustion*, **88**, 529-561.
195. V. Hiremath, S.R. Lantz, H. Wang and S.B. Pope (2012) “*Computationally-Efficient and Scalable Parallel Implementation of Chemistry in Simulations of Turbulent Combustion*”, *Combustion and Flame*, 159, 3096-3109.
196. V. Hiremath, S.R. Lantz, H. Wang and S.B. Pope (2013) “*Large-Scale Parallel Simulations of Turbulent Combustion using Combined Dimension Reduction and Tabulation of Chemistry*”, *Proceedings of the Combustion Institute*, **34**, 205-215.
197. H. Wang, M. Juddoo, S.H. Starner, A.R. Masri and S.B. Pope (2013) “*A Novel Transient Turbulent Jet Flame for Studying Turbulent Combustion*”, *Proceedings of the Combustion Institute*, **34**, 1251-1259.
198. Y. Yang, H. Wang, S.B. Pope and J.H. Chen (2013) “*Large-Eddy Simulation/Probability Density Function Modeling of a Non-Premixed CO/H₂ Temporally Evolving Jet Flame*”, *Proceedings of the Combustion Institute*, **34**, 1241-1249.
199. S.B. Pope (2013) “*Small Scales, Many Species and the Manifold Challenges of Turbulent Combustion*”, *Proceedings of the Combustion Institute*, **34**, 1-31.
200. V. Hiremath and S.B. Pope (2013) “*A Study of the Rate-Controlled Constrained-Equilibrium Dimension Reduction Method and its Different Implementations*”, *Combustion Theory and Modelling*, **17**, 260-293.
201. B.L. Sawford, S.B. Pope and P.K. Yeung (2013) “*Gaussian Lagrangian Stochastic Models for Multi-Particle Dispersion*”, *Physics of Fluids*, **25**, 055101.
202. D.H. Rowinski and S.B. Pope (2013) “*Computational Study of Lean Premixed Turbulent Flames using RANS-PDF and LES-PDF Methods*”, *Combustion Theory and Modelling*, **17**, 610-656.
203. Z. Ren, G. M. Goldin, V. Hiremath, S. B. Pope (2013) “*Simulations of a turbulent non-premixed flame using combined dimension reduction and tabulation for combustion chemistry*”, *Fuel*, **105**, 636-644.
204. D.R. Rowinski and S.B. Pope (2013) “*An investigation of mixing in a three-stream turbulent jet*”, *Physics of Fluids*, **25**, 105105, DOI: 10.1063/1.4822434.
205. S.B. Pope (2013) “*A model for turbulent mixing based on shadow-position conditioning*”, *Physics of Fluids*, **25**, 110803, DOI: 10.1063/1.4818981
206. Y. Yang, S.B. Pope and J.H. Chen (2013) “*Empirical low-dimensional manifolds in composition space*”, *Combustion & Flame*, **160**, 1967-1980.

207. P.P. Popov and S.B. Pope (2014) “*Implicit and Explicit Schemes for Mass Consistency Preservation in Hybrid Particle/Finite-Volume Algorithms for Turbulent Reactive Flows*”, *Journal of Computational Physics*, **257**, 352-373.
208. P.P. Popov and S.B. Pope (2014) “*Large Eddy Simulation/Probability Density Function Simulations of Bluff Body Stabilized Flames*”, *Combustion & Flame*, **161**, 3100-3133.
209. J. Kim and S.B. Pope (2014) “*Effects of combined dimension reduction and tabulation on the simulations of a turbulent premixed flame using large-eddy simulation/probability density function*”, *Combustion Theory and Modelling*, **18**, 388-413, DOI: 10.1080/13647830.2014.919411.
210. J.-P. Minier, S. Chibbaro and S.B. Pope (2014) “*Guidelines for the formulation of Lagrangian stochastic models for particle simulations of single-phase and dispersed two-phase flows*”, *Physics of Fluids*, **26**, 113303, DOI: 10.1063/1.4901315
211. S.B.Pope (2014) “*The determination of turbulence-model statistics from the velocity-acceleration correlation*”, *Journal of Fluid Mechanics*, **757**, R1, DOI:10.1017/jfm.2014.563.
212. P.P. Popov, H. Wang and S.B. Pope (2015) “*Specific Volume Coupling and Convergence Properties in Hybrid Particle/Finite Volume Algorithms for Turbulent Reactive Flows*”, *Journal of Computational Physics*, **294**, 110-126.
213. Y. Liang, S.B. Pope, P. Pepiot (2015) “*A pre-partitioned adaptive chemistry methodology for the efficient implementation of combustion chemistry in particle PDF methods*”, *Combustion & Flame*, **162**, 3236-3253.
214. X.-Y. Zhao, X.-Y. Zhao, A. Bhagatwala, J. H. Chen, D. C. Haworth and S.B. Pope (2015) “*An a priori DNS study of the shadow-position mixing model*”, *Combustion & Flame*, **165**, 223-245.
215. R.R. Tirunagari and S.B. Pope (2015) “*Characterization of Extinction/Reignition Events in Turbulent Premixed Counterflow Flames using Strain-Rate Analysis*”, *Proceedings of the Combustion Institute*, **36**, 1919-1927.
216. Pei, Y., Hawkes, E.R., Bolla, M., Kook, S., Goldin, G.M., Yang, Y., Pope, S.B. and Som, S. (2016) “*An analysis of the structure of an n-dodecane spray flame using TPDF modeling*”, *Combustion & Flame*, **168**, 420-435.
217. R.R. Tirunagari and S.B. Pope (2016) “*LES/PDF for Premixed Combustion in the DNS Limit*”, *Combustion Theory and Modelling*, **20**, 834-865.
218. R.R. Tirunagari and S.B. Pope (2016) “*An Investigation of Turbulent Premixed Counterflow Flames using Large-Eddy Simulations and Probability Density Function Methods*”, *Combustion & Flame*, **116**, 229-242.
219. R.R. Tirunagari, M.W.A. Pettit, A.M. Kempf and S.B. Pope (2017) “*A Simple Approach for Specifying Velocity Inflow Boundary Conditions in Simulations of Turbulent Opposed-Jet Flows*”, *Flow, Turbulence and Combustion*, **98**, 131-153.
220. J. You, Y. Yang and S.B. Pope (2017) “*Effects of molecular transport in LES/PDF of piloted turbulent dimethyl ether/air jet flames*”, *Combustion & Flame*, **176**, 451-461.

221. A. G. Nouri, M. B. Nik, P. Givi, D. Livescu, and S. B. Pope (2017) “*Self-contained filtered density function*”, *Physical Review Fluids* **2**, 094603.
222. I. Langella, N. A. K. Doan, N. Swaminathan and S. B. Pope (2018) “*Study of subgrid-scale velocity models for reacting and non-reacting flows*”, *Physical Review Fluids* **3**, 054602.
223. P.K. Yeung, K.R. Sreenivasan and S. B. Pope (2018) “*Effects of finite spatial and temporal resolution in direct numerical simulations of incompressible isotropic turbulence*”, *Physical Review Fluids* **3**, 064603.
224. H. Turkeri, X. Zhao, S.B. Pope and M. Muradoglu (2019) “*Large eddy simulation/probability density function simulations of the Cambridge turbulent stratified flame series*”, *Combustion & Flame* **199**, 24-45.
225. H. Turkeri, S.B. Pope and M. Muradoglu (2019) “*A LES/PDF simulator on block-structured meshes*”, *Combustion Theory & Modelling*, **23**, 1-41.
226. A.S. Newale, Y. Liang, S.B. Pope and P. Pepiot (2019) “*A combined PPAC-RCCE-ISAT methodology for efficient implementation of combustion chemistry*”, *Combustion Theory & Modelling*, **23**, 1021-1053.
227. H. Zhou, Z. Ren, D.H. Rowinski and S.B. Pope (2020) “*Filtered density function simulations of a near-limit turbulent lean premixed flame*”, *Journal of Propulsion and Power*, **36**, 381-399.
228. A.S. Newale, S.B. Pope and P. Pepiot (2021) “*Computationally-efficient and accurate particle PDF simulations of turbulent combustion using coupled pre-partitioned adaptive chemistry and tabulation*”, *Proceedings of the Combustion Institute*, **38**, 2721-2729.

Other Works

1. S.B. Pope (1972) “*Injector pump performance: the influence of duct and nozzle geometry*,” M.Sc. Thesis, University of London.
2. D.F.G. Durao, A. Melling, S.B. Pope and J.H. Whitelaw (1973) “*Laser-anemometry measurements in the vicinity of a gutter-stabilized flame*,” Imperial College, Dept. of Mech. Eng. Report EHT/TN/41.
3. S.B. Pope (1973) “*Review of information suitable for testing the prediction of flow in the vicinity of a gutter-stabilized flame*,” Imperial College, Dept. of Mech. Eng. Report HTS/73/10.
4. S.B. Pope (1976) “*The calculation of the flow behind bluff bodies with and without combustion*,” Ph.D. Thesis, University of London.
5. S.B. Pope (1976) “*The limits of applicability of turbulent scale equations*,” Imperial College, Dept. of Mech. Eng. Report FS/77/7.
6. S.B. Pope (1977) “*A novel calculation procedure for free shear flows*,” Imperial College, Dept. of Mech. Eng. Report FS/77/8.
7. S.B. Pope (1977) “*A calculation procedure for two-dimensional free shear flows: the SPEAR computer program*,” Imperial College, Dept. of Mech. Eng. Report FS/77/17.
8. S.B. Pope (1977) “*The calculation of separated boundary-layers*,” Symposium on Turbulent Shear Flows, Pennsylvania State University.

9. S.B. Pope (1979) Author's reply to C. Dopazo's comments on Ref. 2. *Combustion and Flame*, **34**, 103-105.
10. D.C. Haworth and S.B. Pope (1985) "*Application of a generalized Langevin model to the two-dimensional mixing layer*," Fifth Symposium on Turbulent Shear Flows, Cornell University.
11. P.K. Yeung and S.B. Pope (1987) "*Lagrangian velocity statistics obtained from direct numerical simulations of homogeneous turbulence*," Sixth Symposium on Turbulent Shear Flows, Toulouse.
12. P.K. Yeung, S. Girimaji and S.B. Pope (1988) "*Eulerian and Lagrangian statistics from a high-resolution direct simulation of stationary homogeneous turbulence*," Cornell University Report FDA-88-02.
13. S.B. Pope (1988) "*Stochastic model of Lagrangian dissipation*," Cornell University Report FDA-88-07.
14. S.B. Pope (1988) "*Stochastic model of Lagrangian velocity accounting for internal intermittency*," Cornell University Report FDA-88-11.
15. P.K. Yeung, S. Girimaji and S.B. Pope (1988) "*A second direct simulation of stationary homogeneous turbulence at $R,63$* ," Cornell University Report FDA-88-08.
16. P.K. Yeung, S. Girimaji and S.B. Pope (1988) "*Further direct simulations of stationary homogeneous turbulence at $R,90$ and 93* ," Cornell University Report FDA-88-19.
17. M.S. Anand, S.B. Pope and H.C. Mongia (1989) "*Calculations of axisymmetric turbulent jets by the PDF method*," Seventh Symposium on Turbulent Shear Flows, Stanford.
18. M.S. Anand, S.B. Pope and H.C. Mongia (1990) "*Pressure algorithm for elliptic flow calculations with the pdf method*," CFD Symposium on Aeropropulsion, NASA Lewis, April 1990.
19. S.B. Pope "*The PDF method for turbulent combustion*," CFD Symposium on Aeropropulsion, NASA Lewis, April 1990 (invited talk).
20. A.T. Norris and S.B. Pope (1991) "*Application of PDF methods to piloted diffusion flames: sensitivity to model parameters*," Eighth Symposium on Turbulent Shear Flows.
21. P.K. Yeung and S.B. Pope (1992) "*Differential diffusion of passive scalars in stationary isotropic turbulence*," Thirteenth Symposium on Turbulence, Missouri-Rolla.
22. S.B. Pope (1992) "*Converging fields algorithm for steady flows*," Cornell University Report.
23. A.T. Norris, P.K. Yeung and S.B. Pope (1992) "*Lagrangian time series data for $R,38, 63, 90$ and 93 : Exabyte 8mm storage guide*," Cornell University Report FDA-92-10.
24. T.D. Dreeben and S.B. Pope (1992) "*Nonparametric estimation of mean fields with application to particle methods for turbulent flows*," Cornell University Report FDA-92-13
25. M.S. Anand, S.B. Pope and H.C. Mongia (1993) "*PDF calculations for swirling flows*," AIAA paper 93-0106.
26. S. Fu and S.B. Pope (1993) "*Computation of recirculating swirling flow with the GLM Reynolds stress closure*," Cornell University Report FDA 93-01.

27. S.B. Pope (1993) "*A simpler manifold method for simplifying chemical kinetics*" Cornell University Report FDA 93-06.
28. P.K. Yeung and S.B. Pope (1993) "*Spectra of multiscalar differential diffusion in isotropic turbulence,*" AIAA paper 93-3103.
29. L. Rochas and S.B. Pope (1993) "*A pressure algorithm for particle methods applied to statistically stationary turbulent flows,*" Cornell University Report FDA-93-09.
30. S.B. Pope (1995) "*Position, velocity and pressure correction algorithm for particle method solution of the PDF transport equations,*" Cornell University Report FDA 95-06.
31. S.B. Pope (1993) "*Application of trajectory-generated low-dimensional manifold method to premixed combustion of methane,*" Cornell University Report FDA-93-10.
32. S.B. Pope and U. Maas (1993) "*Simplifying chemical kinetics: trajectory-generated low-dimensional manifolds,*" Cornell University Report FDA 93-11.
33. T.D. Dreeben and S.B. Pope (1995) "*PDF and Reynolds-stress modeling of near-wall turbulent flows,*" Tenth Symposium on Turbulent Shear Flows.
34. Jayesh and S.B. Pope (1995) "*Stochastic model for turbulent frequency,*" Cornell University Report FDA 95-05.
35. M.S. Anand, A.T. Hsu and S.B. Pope (1996) "*PDF calculations for swirl combustors,*" AAIA Paper 96-0522.
36. S.B. Pope (1996) "*Reducing the tabulation dimension in the in situ adaptive tabulation (ISAT) method,*" Cornell University Report FDA 96-04.
37. J. Xu and S.B. Pope (1997) "*Sources of bias in particle-mesh methods for PDF models for turbulent flows,*" Cornell University Report FDA 97-01.
38. S. Subramaniam and S.B. Pope (1997) "*Comparison of PDF mixing models for nonpremixed turbulent reacting flow,*" Cornell University Report FDA 97-03.
39. S.B. Pope (1997) "*Mean field equations in PDF particle methods for turbulent reactive flows,*" Cornell University Report FDA 97-06.
40. J. Xu and S.B. Pope (1997) "*Analysis of numerical errors in solving particle Langevin equations,*" Cornell University Report FDA 97-07.
41. P.R. Van Slooten and S.B. Pope (1997) "*Critique of velocity/wave-vector PDF modeling,*" Cornell University Report FDA 97-09.
42. J. Xu and S.B. Pope (1998) "*Turbulence modelling in joint PDF calculations of piloted-jet flames,*" 4th International Symposium on Engineering Turbulence Modelling and Measurements, Corsica, May 1999.
43. J. Xu and S.B. Pope (1999) "*PDF calculations of piloted-jet turbulent flames of methane with local extinction,*" Cornell University Report FDA 99-06.

44. S. James, M.S. Anand, M.K. Razdan and S.B. Pope (1999) "In situ *detailed chemistry calculations in combustor flow analyses*," in: Proceedings of 44th ASME Gas Turbine and Aero Engine Technical Congress, Indianapolis, IN.
45. Q. Tang and S.B. Pope (1999) "*Implementation of radiation in ISAT*," Cornell University Report FDA 99-05.
46. S.B. Pope (2001) "*Numerical integration of stochastic differential equations: weak second-order mid-point scheme for application in the composition PDF method*," Cornell University Report FDA 01-02.
47. M. Muradoglu, K. Lui and S.B. Pope (2001) "*PDF modelling of a bluff-body stabilized turbulent flame*," Cornell University Report FDA 01-03.
48. J. Xu and S.B. Pope (2001) "*Variable density effects in stochastic Lagrangian models for turbulent combustion*," unpublished report.
49. S. James, M.S. Anand and S.B. Pope (2002) "*The Lagrangian PDF transport method for simulations of gas turbine combustor flows*," AIAA paper 2002-4017.
50. J.-P. Minier, R. Cao and S.B. Pope (2003) "*Comments on the article 'An effective particle tracing scheme on structured/unstructured grids in hybrid finite volume/PDF Monte Carlo methods' by Li & Modest*," Journal of Computational Physics, **186**, 356-358.
51. A.R. Masri, R. Cao, S.B. Pope and G.M. Goldin (2003) "*Calculations of a turbulent lifted flame issuing into a vitiated co-flow*," Third Mediterranean Combustion Symposium, Marrakech, Morocco.
52. K. Liu, S.B. Pope and D.A. Caughey (2003) "*Calculations of a turbulent bluff-body stabilized flame*," Third Joint Meeting of the U.S. Sections of the Combustion Institute, Chicago.
53. Q. Tang and S.B. Pope (2003) "*A more accurate projection in the rate-controlled constrained equilibrium method for dimension reduction of combustion chemistry*," Third Joint Meeting of the U.S. Sections of the Combustion Institute, Chicago.
54. S.B. Pope (2003) "*The computation of constrained and unconstrained equilibrium compositions of ideal gas mixtures using Gibbs function continuation*," Cornell University report FDA 03-02.
55. R. Cao, D.A. Caughey and S.B. Pope, (2003) "*Efficient parallel implementation of a hybrid Finite Volume/particle method for the PDF equations of turbulent reactive flows*," Fall Technical Meeting of the ESS of the Combustion Institute, University Park, PA.
56. E.V. Vliet, R.O. Fox, J.J. Derksen and S.B. Pope (2004) "*Treatment of fast chemistry in FDF/LES: In situ adaptive tabulation*," Proceedings of PVP01 2004 5th Intern. Symp. on Comp. Tech. for Fluid/Thermal/Chemical Systems with Industrial Appl. San Diego/La Jolla, CA.
57. L. Lu, Z. Ren, V. Raman, S.B. Pope and H. Pitsch (2004) "*LES/FDF/ISAT computations of turbulent flames*," Proceedings of CTR Summer Program.
58. R. Cao and S.B. Pope (2005) "*The influence of chemical mechanisms on PDF calculations of nonpremixed piloted jet flames*," 4th Joint Meeting of the U. S. Sections of the Combustion Institute, Philadelphia, PA

59. L. Lu, Z. Ren, S.R. Lantz, V. Raman, S.B. Pope and H. Pitsch (2005) "*Investigation of strategies for the parallel implementation of ISAT in LES/FDF/ISAT computations*," 4th Joint Meeting of the U. S. Sections of the Combustion Institute, Philadelphia, PA.
60. M.R.H. Sheikhi, P. Givi and S.B. Pope (2005) "*Latest developments in filtered density function formulation*," 4th Joint Meeting of the U. S. Sections of the Combustion Institute, Philadelphia, PA.
61. Z. Ren and S.B. Pope (2005) "*Application of the ICE-PIC method for the dimension reduction of chemical kinetics*," Fall Technical Meeting of the Eastern States Section of the Combustion Institute, University of Central Florida, Orlando, FL, November 13-15, 2005.
62. A.R. Masri and S.B. Pope (2005) "*Special issue in honor of Professor Robert W. Bilger on the occasion of his seventieth birthday: Preface*," *Combustion and Flame*, 143, 339--341.
63. H. Wang and S.B. Pope (2007) "*Lagrangian investigation of local extinction, re-ignition, and auto-ignition in turbulent flames*," 5th US Combustion Meetings, San Diego, CA.
64. R. McDermott and S.B. Pope (2007) "*A Lagrangian particle advection scheme for hybrid LES/FDF methods based on a mean velocity reconstruction with desirable divergence properties*," 5th US Combustion Meetings, San Diego, CA.
65. Z. Ren and S.B. Pope (2007) "*Reduced description of complex dynamics in reactive systems*." 5th US Combustion Meetings, San Diego, CA.
66. A.G. Lamorgese, S.B. Pope, P.K. Yeung and B.L. Sawford (2005) "*A conditionally cubic-Gaussian Lagrangian model for acceleration in isotropic turbulence*," arXiv cond-mat/0512212.
67. B. Panda, M. Riedewald, S.B. Pope, J. Gehrke and L.P. Chew (2006) "*Indexing for function approximation*," in *Proceedings of the 32nd International Conference on Very Large Data Bases*, Seoul, Korea, September 12-15, 2006, pp. 523-534. ACM.
68. B. Panda, M. Riedewald, S.B. Pope, and J. Gehrke (2007) "*High-speed function approximation*," In *Proceedings of the 7th IEEE International Conference on Data Mining (ICDM 2007)*, October 28-31, 2007, Omaha, Nebraska, USA, pp. 613-618. IEEE Computer Society,
69. S.B. Pope (2008) "*Algorithms for ellipsoids*," Cornell University Report FDA 08-01.
70. K. A. Kemenov, H. Wang and S. B. Pope (2009) "*Grid resolution effects on LES of a piloted methane-air flame*", U.S. Combustion Meeting, Ann Arbor.
71. D.H. Rowinski and S.B. Pope (2011) "*Mixing model behavior in PDF calculations of lean premixed jet flames*", 7th US National Combustion Meeting, Georgia Institute of Technology, Atlanta, GA, March 20-23, 2011.
72. P.P. Popov, S. Viswanathan, H. Wang and S.B. Pope (2001) "*Coupling in Hybrid Particle/Finite Volume Algorithms for Turbulent Reactive Flows*", 7th US National Combustion Meeting, Georgia Institute of Technology, Atlanta, GA, March 20-23, 2011.

73. V. Hiremath, Z. Ren and S.B. Pope (2011) "*Computationally-Efficient Implementation of Combustion Chemistry using ISAT-RCCE-GALI*", 7th US National Combustion Meeting, Georgia Institute of Technology, Atlanta, GA, March 20-23, 2011.
74. H. Wang and S.B. Pope (2011) "*Parametric PDF studies of turbulent premixed stratified flames*", 7th US National Combustion Meeting, Georgia Institute of Technology, Atlanta, GA, March 20-23, 2011.
75. V. Hiremath, S.R. Lantz, H. Wang and S.B. Pope (2011) "*Computationally-Efficient Parallel Implementation of Combustion Chemistry in LES/PDF Computations*", Technical Meeting of the Eastern States Section of the Combustion Institute (ESSCI), University of Connecticut, October 9-12, 2011.
76. S.B. Pope (2014) Book review: "Ten Chapters in Turbulence," AIAA Journal, 52, 666-667, doi: <http://arc.aiaa.org/doi/abs/10.2514/1.J052847>
77. S.B. Pope and R. Tirunagari (2014) "*Advances in Probability Density Function Methods for Turbulent Reactive Flows*", 19th Australasian Fluid Mechanics Conference Melbourne, Australia.
78. Y. Liang, S.B. Pope and P. Pepiot. (2015) "*An adaptive methodology for the efficient implementation of detailed chemistry in simulations of turbulent non-premixed combustion*", 9th US National Combustion Meeting, Cincinnati, Ohio, May 17-20, 2015.
79. A.R. Masri and S.B. Pope (2017) "*Professor Robert William Bilger (1935-2015) in Memoriam*", Combustion & Flame, **179**, A1-A2.