

# Stephen de Bruyn Kops

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

655  
citations

471061

17  
h-index

552369

26  
g-index

28  
all docs

28  
docs citations

28  
times ranked

469  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of viscous-convective subrange on passive scalar statistics at high Reynolds number. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	4
2	Implications of inertial subrange scaling for stably stratified mixing. <i>Journal of Fluid Mechanics</i> , 2022, 939, .	1.4	3
3	A first principles framework to predict the transient performance of latent heat thermal energy storage. <i>Journal of Energy Storage</i> , 2021, 36, 102388.	3.9	7
4	Area of scalar isosurfaces in homogeneous isotropic turbulence as a function of Reynolds and Schmidt numbers. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	1.4	9
5	Testing the Assumptions Underlying Ocean Mixing Methodologies Using Direct Numerical Simulations. <i>Journal of Physical Oceanography</i> , 2019, 49, 2761-2779.	0.7	19
6	Asymptotic Dynamics of High Dynamic Range Stratified Turbulence. <i>Physical Review Letters</i> , 2019, 122, 194504.	2.9	35
7	The effects of stable stratification on the decay of initially isotropic homogeneous turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 860, 787-821.	1.4	33
8	Robust identification of dynamically distinct regions in stratified turbulence. <i>Journal of Fluid Mechanics</i> , 2016, 807, .	1.4	38
9	Turbulent/non-turbulent interfaces in wakes in stably stratified fluids. <i>Journal of Fluid Mechanics</i> , 2016, 797, .	1.4	42
10	Classical scaling and intermittency in strongly stratified Boussinesq turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 775, 436-463.	1.4	38
11	Investigation of Hill's optical turbulence model by means of direct numerical simulation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 2423.	0.8	15
12	Production of aromatics by catalytic fast pyrolysis of cellulose in a bubbling fluidized bed reactor. <i>AIChE Journal</i> , 2014, 60, 1320-1335.	1.8	50
13	Kinetic energy dynamics in forced, homogeneous, and axisymmetric stably stratified turbulence. <i>Journal of Turbulence</i> , 2012, 13, N29.	0.5	37
14	Energy dissipation rate surrogates in incompressible Navier-Stokes turbulence. <i>Journal of Fluid Mechanics</i> , 2012, 697, 204-236.	1.4	17
15	A mathematical framework for forcing turbulence applied to horizontally homogeneous stratified flow. <i>Physics of Fluids</i> , 2011, 23, .	1.6	16
16	Conditional velocity statistics in the double scalar mixing layer – A mapping closure approach. <i>Combustion Theory and Modelling</i> , 2008, 12, 929-941.	1.0	5
17	Direct numerical simulation and Lagrangian modeling of joint scalar statistics in ternary mixing. <i>Physics of Fluids</i> , 2008, 20, .	1.6	11
18	Pseudo-spectral numerical simulation of miscible fluids with a high density ratio. <i>Computers and Fluids</i> , 2007, 36, 238-247.	1.3	9

#	ARTICLE	IF	CITATIONS
19	Predicting turbulence in flows with strong stable stratification. <i>Physics of Fluids</i> , 2006, 18, 066602.	1.6	32
20	Relationship between vertical shear rate and kinetic energy dissipation rate in stably stratified flows. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	26
21	Direct numerical simulations of the double scalar mixing layer. Part I: Passive scalar mixing and dissipation. <i>Physics of Fluids</i> , 2006, 18, 067106.	1.6	12
22	Modeling turbulent dissipation at low and moderate Reynolds numbers. <i>Journal of Turbulence</i> , 2006, 7, N69.	0.5	20
23	Conditional mixing statistics in a self-similar scalar mixing layer. <i>Physics of Fluids</i> , 2005, 17, 095107.	1.6	20
24	Reynolds and Froude Number Scaling in Stably-Stratified Flows. <i>Fluid Mechanics and Its Applications</i> , 2004, , 71-76.	0.1	2
25	Direct numerical simulation of reacting scalar mixing layers. <i>Physics of Fluids</i> , 2001, 13, 1450-1465.	1.6	21
26	Re-examining the thermal mixing layer with numerical simulations. <i>Physics of Fluids</i> , 2000, 12, 185-192.	1.6	22
27	Investigation of Modeling for Non-Premixed Turbulent Combustion. <i>Flow, Turbulence and Combustion</i> , 1998, 60, 105-122.	1.4	33
28	Direct numerical simulation of laboratory experiments in isotropic turbulence. <i>Physics of Fluids</i> , 1998, 10, 2125-2127.	1.6	79