James J Riley

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Available potential energy and mixing in density-stratified fluids. Journal of Fluid Mechanics, 1995, 289, 115-128.	1.4	459
2	Secondary instability of a temporally growing mixing layer. Journal of Fluid Mechanics, 1987, 184, 207-243.	1.4	329
3	A subgrid model for equilibrium chemistry in turbulent flows. Physics of Fluids, 1994, 6, 2868-2870.	1.6	290
4	Mixing Efficiency in the Ocean. Annual Review of Marine Science, 2018, 10, 443-473.	5.1	284
5	On the interaction of compliant coatings with boundary-layer flows. Journal of Fluid Mechanics, 1984, 140, 257-280.	1.4	123
6	Analysis of Turbulence Collapse in the Stably Stratified Surface Layer Using Direct Numerical Simulation. Boundary-Layer Meteorology, 2011, 139, 241-259.	1.2	94
7	Investigation of closure models for nonpremixed turbulent reacting flows. Physics of Fluids, 1994, 6, 1331-1356.	1.6	88
8	Direct numerical simulation of laboratory experiments in isotropic turbulence. Physics of Fluids, 1998, 10, 2125-2127.	1.6	79
9	Instability and breakdown of internal gravity waves. I. Linear stability analysis. Physics of Fluids, 1996, 8, 3271-3287.	1.6	73
10	Self-sustained oscillations in variable-density round jets. Journal of Fluid Mechanics, 2007, 582, 341-376.	1.4	61
11	Testing of mixing models for Monte Carlo probability density function simulations. Physics of Fluids, 2005, 17, 047101.	1.6	53
12	Stochastic modelling of inertial particle dispersion by subgrid motion for LES of high Reynolds number pipe flow. Journal of Turbulence, 2007, 8, N50.	0.5	48
13	Rotating free-shear flows. Part 2. Numerical simulations. Journal of Fluid Mechanics, 1995, 293, 47-80.	1.4	46
14	Characterization of mixing performance for bio-mimetic silicone cilia. Microfluidics and Nanofluidics, 2010, 9, 645-655.	1.0	42
15	Turbulent/non-turbulent interfaces in wakes in stably stratified fluids. Journal of Fluid Mechanics, 2016, 797, .	1.4	42
16	The effects of stable stratification on the decay of initially isotropic homogeneous turbulence. Journal of Fluid Mechanics, 2019, 860, 787-821.	1.4	33
17	Direct Numerical Simulation Investigation of the Conditional Moment Closure Model for Nonpremixed Turbulent Reacting Flows. Combustion Science and Technology, 1993, 91, 179-186.	1.2	31
18	Vortex Structures in the Wake of an Idealized Seamount in Rotating, Stratified Flow. Geophysical Research Letters, 2018, 45, 9098-9105.	1.5	31

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19	The Premixed Conditional Moment Closure Method Applied to Idealized Lean Premixed Gas Turbine Combustors. Journal of Engineering for Gas Turbines and Power, 2003, 125, 895-900.	0.5	29
20	A localized turbulent mixing layer in a uniformly stratified environment. Journal of Fluid Mechanics, 2018, 849, 245-276.	1.4	25
21	Hairpin vortices and highly elongated flow structures in a stably stratified shear layer. Journal of Fluid Mechanics, 2019, 878, 37-61.	1.4	23
22	Re-examining the thermal mixing layer with numerical simulations. Physics of Fluids, 2000, 12, 185-192.	1.6	22
23	Dispersion and temperature statistics of inertial particles in isotropic turbulence. Physics of Fluids, 2010, 22, .	1.6	22
24	Energetics of Seamount Wakes. Part I: Energy Exchange. Journal of Physical Oceanography, 2020, 50, 1365-1382.	0.7	22
25	Direct numerical simulation of reacting scalar mixing layers. Physics of Fluids, 2001, 13, 1450-1465.	1.6	21
26	A Lagrangian study of scalar diffusion in isotropic turbulence with chemical reaction. Physics of Fluids, 2003, 15, 3856-3866.	1.6	21
27	Effects of stable stratification on turbulent/nonturbulent interfaces in turbulent mixing layers. Physical Review Fluids, 2016, 1, .	1.0	20
28	The lengthâ€scale dependence of scalar mixing. Physics of Fluids A, Fluid Dynamics, 1991, 3, 2474-2476.	1.6	19
29	Three-dimensional electroconvective vortices in cross flow. Physical Review E, 2020, 101, 033103.	0.8	18
30	Review of Large-Eddy Simulation of Non-Premixed Turbulent Combustion. Journal of Fluids Engineering, Transactions of the ASME, 2006, 128, 209-215.	0.8	15
31	Energetics of Seamount Wakes. Part II: Wave Fluxes. Journal of Physical Oceanography, 2020, 50, 1383-1398.	0.7	15
32	Turbulent entrainment across turbulent-nonturbulent interfaces in stably stratified mixing layers. Physical Review Fluids, 2017, 2, .	1.0	15
33	On the dynamics of turbulence near a free surface. Journal of Fluid Mechanics, 2017, 821, 248-265.	1.4	13
34	Homogeneous turbulence in ferrofluids with a steady magnetic field. Journal of Fluid Mechanics, 2008, 599, 1-28.	1.4	12
35	Mixing Models for Large-Eddy Simulation of Nonpremixed Turbulent Combustion. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 341-346.	0.8	10
36	Enhanced bioreaction efficiency of a microfluidic mixer toward high-throughput and low-cost bioassays. Microfluidics and Nanofluidics, 2012, 12, 143-156.	1.0	10

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37	Dynamics of Cilia-Based Microfluidic Devices. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	0.9	7
38	Idealized headland simulation for tidal hydrokinetic turbine siting metrics. , 2010, , .		5
39	On the kinematics of scalar iso-surfaces in decaying homogeneous, isotropic turbulence. Journal of Turbulence, 2019, 20, 661-680.	0.5	5
40	Rotating magnetohydrodynamic free-shear flows. I. Linear stability analysis. Physics of Fluids, 2001, 13, 1946-1955.	1.6	4
41	Effect of viscous-convective subrange on passive scalar statistics at high Reynolds number. Physical Review Fluids, 2022, 7, .	1.0	4
42	PROGRESS IN SUBGRID-SCALE COMBUSTION MODELING. , 1998, , 914-931.		3
43	A-priori testing of alpha regularisation models as subgrid-scale closures for large-eddy simulations. Journal of Turbulence, 2013, 14, 1-20.	0.5	2
44	Symposium on Geophysical Flows. Applied Mechanics Reviews, 1994, 47, S107-S107.	4.5	0