Julian Andrzej Domaradzki

List of Publications by Year
in descending order

42 papers	2,378 citations	201674 27 h-index	265206 42 g-index
42 all docs	42 docs citations	42 times ranked	1012 citing authors

#	Article	IF	Citations
1	Large eddy simulations of high Reynolds number turbulence based on interscale energy transfer among resolved scales. Physical Review Fluids, 2021, 6, .	2.5	6
2	Toward autonomous large eddy simulations of turbulence based on interscale energy transfer among resolved scales. Physical Review Fluids, 2021, 6, .	2.5	3
3	On the Nature of the Turbulent Energy Dissipation Beneath Nonbreaking Waves. Geophysical Research Letters, 2020, 47, e2020GL090138.	4.0	4
4	On the estimation of artificial dissipation and dispersion errors in a generic partial differential equation. Journal of Computational Physics, 2019, 397, 108843.	3.8	7
5	Implicit LES using adaptive filtering. Journal of Computational Physics, 2018, 359, 380-408.	3.8	18
6	Effects of numerical dissipation on the interpretation of simulation results in computational fluid dynamics. Computers and Fluids, 2017, 154, 256-272.	2.5	21
7	Temperature gradient spectra and temperature dissipation rate in a turbulent convective flow. Journal of Turbulence, 2015, 16, 1179-1198.	1.4	2
8	Performance of subgrid-scale models in coarse large eddy simulations of a laminar separation bubble. Physics of Fluids, 2015, 27, 045112.	4.0	7
9	Numerical simulations of the near wake of a sphere moving in a steady, horizontal motion through a linearly stratified fluid at Re = 1000. Physics of Fluids, 2015, 27, .	4.0	39
10	Assessing the numerical dissipation rate and viscosity in numerical simulations of fluid flows. Computers and Fluids, 2015, 114, 84-97.	2.5	41
11	Direct Numerical Simulation and Large Eddy Simulation of Laminar Separation Bubbles at Moderate Reynolds Numbers. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	18
12	A subgrid-scale model for large-eddy simulation based on the physics of interscale energy transfer in turbulence. Physics of Fluids, 2012, 24, 065104.	4.0	36
13	Similarity scaling and vorticity structure in high-Reynolds-number stably stratified turbulent wakes. Journal of Fluid Mechanics, 2011, 671, 52-95.	3.4	71
14	On the locality of magnetohydrodynamic turbulence scale fluxes. Physics of Plasmas, 2011, 18, .	1.9	15
15	Locality properties of the energy flux in magnetohydrodynamic turbulence. Physics of Fluids, 2010, 22, .	4.0	15
16	Large eddy simulations without explicit eddy viscosity models. International Journal of Computational Fluid Dynamics, 2010, 24, 435-447.	1.2	19
17	Locality properties of the energy flux in turbulence. Physics of Fluids, 2009, 21, .	4.0	62
18	A comparison of spectral sharp and smooth filters in the analysis of nonlinear interactions and energy transfer in turbulence. Physics of Fluids, 2007, 19, 085111.	4.0	29

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19	An analysis of the energy transfer and the locality of nonlinear interactions in turbulence. Physics of Fluids, 2007, 19, .	4.0	45
20	An adaptive local deconvolution method for implicit LES. Journal of Computational Physics, 2006, 213, 413-436.	3.8	220
21	A spectral multidomain penalty method model for the simulation of high Reynolds number localized incompressible stratified turbulence. Journal of Computational Physics, 2005, 202, 298-322.	3.8	68
22	Effective eddy viscosities in implicit modeling of decaying high Reynolds number turbulence with and without rotation. Fluid Dynamics Research, 2005, 36, 385-406.	1.3	38
23	Large eddy simulations of decaying rotating turbulence. Physics of Fluids, 2004, 16, 4088-4104.	4.0	45
24	Effective eddy viscosities in implicit large eddy simulations of turbulent flows. Physics of Fluids, 2003, 15, 3890-3893.	4.0	133
25	Large Eddy Simulations Using the Subgrid-Scale Estimation Model and Truncated Navier-Stokes Dynamics. Theoretical and Computational Fluid Dynamics, 2002, 15, 421-450.	2.2	49
26	Large eddy simulations of Rayleighâ€“BÃ©nard convection using subgrid scale estimation model. Physics of Fluids, 2000, 12, 169-184.	4.0	43
27	The subgrid-scale estimation model on nonuniform grids. Physics of Fluids, 1999, 11, 3786-3792.	4.0	24
28	The subgrid-scale estimation model in the physical space representation. Physics of Fluids, 1999, 11, 2330-2342.	4.0	87
29	A subgrid-scale model based on the estimation of unresolved scales of turbulence. Physics of Fluids, 1997, 9, 2148-2164.	4.0	165
30	Direct numerical simulations of passive scalars with Pr>1 advected by turbulent flow. Journal of Fluid Mechanics, 1997, 343, 111-130.	3.4	98
31	Smallâ€scale properties of nonlinear interactions and subgridâ€scale energy transfer in isotropic turbulence. Physics of Fluids, 1996, 8, 197-208.	4.0	62
32	Approximation of subgridâ€scale energy transfer based on the dynamics of resolved scales of turbulence. Physics of Fluids, 1995, 7, 2025-2035.	4.0	13
33	Scale dependence of the statistical character of turbulent fluctuations in thermal convection. Physics of Fluids, 1994, 6, 1848-1855.	4.0	11
34	Energy transfer in numerically simulated wallâ€bounded turbulent flows. Physics of Fluids, 1994, 6, 1583-1599.	4.0	129
35	Direct numerical simulation of transition to turbulence in GÃ¶rtler flow. Journal of Fluid Mechanics, 1993, 246, 267-299.	3.4	53
36	An analysis of subgridâ€scale interactions in numerically simulated isotropic turbulence. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1747-1759.	1.6	142

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37	Numerical evidence for nonuniversality of the soft/hard turbulence classification for thermal convection. Physics of Fluids A, Fluid Dynamics, 1993, 5, 412-421.	1.6	30
38	Nonlocal triad interactions and the dissipation range of isotropic turbulence. Physics of Fluids A, Fluid Dynamics, 1992, 4, 2037-2045.	1.6	75
39	Local energy transfer and nonlocal interactions in homogeneous, isotropic turbulence. Physics of Fluids A, Fluid Dynamics, 1990, 2, 413-426.	1.6	255
40	Direct numerical simulations of the effects of shear on turbulent Rayleigh-BÃ©nard convection. Journal of Fluid Mechanics, 1988, 193, 499.	3.4	57
41	Analysis of energy transfer in direct numerical simulations of isotropic turbulence. Physics of Fluids, 1988, 31, 2747.	1.4	39
42	Analysis of subgrid-scale eddy viscosity with use of results from direct numerical simulations. Physical Review Letters, 1987, 58, 547-550.	7.8	84