## Fernando F Grinstein

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	New insights into large eddy simulation. Fluid Dynamics Research, 1992, 10, 199-228.	1.3	844
2	FLOW CONTROL WITH NONCIRCULAR JETS. Annual Review of Fluid Mechanics, 1999, 31, 239-272.	25.0	509
3	Monotonically Integrated Large Eddy Simulation of Free Shear Flows. AIAA Journal, 1999, 37, 544-556.	2.6	332
4	Large Eddy Simulation of High-Reynolds-Number Free and Wall-Bounded Flows. Journal of Computational Physics, 2002, 181, 68-97.	3.8	257
5	Vortex dynamics and entrainment in rectangular free jets. Journal of Fluid Mechanics, 2001, 437, 69-101.	3.4	160
6	Dynamics of coherent structures and transition to turbulence in free square jets. Physics of Fluids, 1996, 8, 1237-1251.	4.0	159
7	Simulation of transition and turbulence decay in the Taylor–Green vortex. Journal of Turbulence, 2007, 8, N20.	1.4	109
8	Selfâ€induced vortex ring dynamics in subsonic rectangular jets. Physics of Fluids, 1995, 7, 2519-2521.	4.0	88
9	Simulations of Richtmyer–Meshkov instabilities in planar shock-tube experiments. Physics of Fluids, 2011, 23, .	4.0	79
10	LES studies of the flow in a swirl gas combustor. Proceedings of the Combustion Institute, 2005, 30, 1791-1798.	3.9	73
11	Estimating the effective Reynolds number in implicit large-eddy simulation. Physical Review E, 2014, 89, 013303.	2.1	68
12	An experimental and computational study of a multi-swirl gas turbine combustor. Proceedings of the Combustion Institute, 2007, 31, 3107-3114.	3.9	63
13	Open Boundary Conditions in the Simulation of Subsonic Turbulent Shear Flows. Journal of Computational Physics, 1994, 115, 43-55.	3.8	52
14	On Flux-Limiting-Based Implicit Large Eddy Simulation. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 1483-1492.	1.5	41
15	Reynolds-averaged Navier–Stokes initialization and benchmarking inÂshock-driven turbulent mixing. Journal of Turbulence, 2013, 14, 46-70.	1.4	40
16	Three-dimensional simulation strategy to determine the effects of turbulent mixing on inertial-confinement-fusion capsule performance. Physical Review E, 2014, 89, 053302.	2.1	40
17	Implicit large-eddy simulation of passive scalar mixing in statistically stationary isotropic turbulence. Physics of Fluids, 2013, 25, .	4.0	39
18	Chemical energy release and dynamics of transitional, reactive shear flows. Physics of Fluids A, Fluid Dynamics, 1992, 4, 2207-2221.	1.6	37

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19	Large Scale Urban Contaminant Transport Simulations With Miles. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 1524-1532.	1.5	37
20	Pressure field, feedback, and global instabilities of subsonic spatially developing mixing layers. Physics of Fluids A, Fluid Dynamics, 1991, 3, 2401-2409.	1.6	34
21	Flow dynamics in a swirl combustor. Journal of Turbulence, 2002, 3, N30.	1.4	32
22	Numerical simulation of Richtmyer–Meshkov instabilities in shocked gas curtains. Journal of Turbulence, 2011, 12, N43.	1.4	32
23	On the computation of instabilities and symmetry-breaking in fluid mechanics. Progress in Aerospace Sciences, 2005, 41, 609-641.	12.1	25
24	Two classes of Richtmyer-Meshkov instabilities: A detailed statistical look. Physics of Fluids, 2013, 25, .	4.0	23
25	Linear Stochastic Estimation of a Swirling Jet. AIAA Journal, 2006, 44, 457-468.	2.6	22
26	On integrating large eddy simulation and laboratory turbulent flow experiments. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 2931-2945.	3.4	21
27	Initial conditions and modeling for simulations of shock driven turbulent material mixing. Computers and Fluids, 2017, 151, 58-72.	2.5	18
28	Effects of operator splitting and low Mach-number correction in turbulent mixing transition simulations. Computers and Mathematics With Applications, 2019, 78, 437-458.	2.7	15
29	Coarse grained simulations of shock-driven turbulent material mixing. Physics of Fluids, 2021, 33, .	4.0	14
30	Exothermicity and Relaminarization Effects in Unsteady Reactive Square Jets. Combustion Science and Technology, 1996, 113, 291-312.	2.3	12
31	Global instabilities in countercurrent jets. Physics of Fluids, 2002, 14, 1095-1100.	4.0	12
32	Effect of the numerical discretization scheme in Shock-Driven turbulent mixing simulations. Computers and Fluids, 2020, 201, 104487.	2.5	12
33	Impact of numerical hydrodynamics in turbulent mixing transition simulations. Physics of Fluids, 2021, 33, .	4.0	12
34	Coarse grained simulation of convectively driven turbulent mixing, transition, and turbulence decay. Physica D: Nonlinear Phenomena, 2020, 407, 132419.	2.8	10
35	Modeling and simulation of transitional Taylor-Green vortex flow with partially averaged Navier-Stokes equations. Physical Review Fluids, 2021, 6, .	2.5	10
36	Implicit large eddy simulation of shock-driven material mixing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120217.	3.4	9

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37	Effects of initial condition spectral content on shock-driven turbulent mixing. Physical Review E, 2015, 92, 013014.	2.1	9
38	Dynamic bridging modeling for coarse grained simulations of shock driven turbulent mixing. Computers and Fluids, 2020, 199, 104430.	2.5	9
39	Molecular viscosity and diffusivity effects in transitional and shock-driven mixing flows. Physical Review E, 2021, 103, 013106.	2.1	9
40	On coarse-grained simulations of turbulent material mixing. Physica Scripta, 2012, 86, 058203.	2.5	7
41	Modeling and simulation of transitional Rayleigh–Taylor flow with partially averaged Navier–Stokes equations. Physics of Fluids, 2021, 33, .	4.0	7
42	Partially averaged Navier-Stokes closure modeling for variable-density turbulent flow. Physical Review Fluids, 2021, 6, .	2.5	6
43	Analysis of Computational and Laboratory Shocked Gas-Curtain Experiments. , 2011, , .		2
44	Verification and Validation: The Path to Predictive Scale-Resolving Simulations of Turbulence. Journal of Verification, Validation and Uncertainty Quantification, 2022, 7, .	0.4	2
45	Coarse Grained Simulation and Turbulent Material Mixing. , 2017, , 401-420.		1
46	On Monotonically Integrated Large Eddy Simulation of Turbulent Flows Based on FCT Algorithms. Scientific Computation, 2012, , 67-90.	0.2	1
47	RANS Initialization and Validation in Shock-Driven Turbulent Mixing. , 2012, , .		0
48	Dynamic Bridging for Coarse Grained Simulations of Turbulent Material Mixing. Springer Proceedings in Physics, 2021, , 79-84.	0.2	0
49	Simulating vortex dynamics and transition in high-Reynolds number flows. Physica Scripta, 2010, T142, 014013.	2.5	0