

Daniel Fuster

List of Publications by Year in descending order

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45
papers

1,611
citations

331670

21
h-index

289244

40
g-index

45
all docs

45
docs citations

45
times ranked

1235
citing authors

#	ARTICLE	IF	CITATIONS
1	Scattering of acoustic waves by a nonlinear resonant bubbly screen. Journal of Fluid Mechanics, 2021, 906, .	3.4	8
2	A mass-momentum consistent, Volume-of-Fluid method for incompressible flow on staggered grids. Computers and Fluids, 2021, 215, 104785.	2.5	25
3	PArallel, Robust, Interface Simulator (PARIS). Computer Physics Communications, 2021, 263, 107849.	7.5	29
4	Vortex-interface interactions in two-dimensional flows. International Journal of Multiphase Flow, 2021, 143, 103757.	3.4	7
5	Effects of surface tension on the Richtmyer-Meshkov instability in fully compressible and inviscid fluids. Physical Review Fluids, 2021, 6, .	2.5	2
6	Time-delayed interactions on acoustically driven bubbly screens. Journal of the Acoustical Society of America, 2021, 150, 4219-4231.	1.1	6
7	Optimal Control of SonoVue Microbubbles to Estimate Hydrostatic Pressure. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 557-567.	3.0	22
8	Optimal subharmonic emission of stable bubble oscillations in a tube. Physical Review E, 2020, 102, 013105.	2.1	4
9	The Effects of Hydrostatic Pressure on the Subharmonic Response of SonoVue and Sonazoid. , 2019, , .		4
10	A two-phase mixing layer between parallel gas and liquid streams: multiphase turbulence statistics and influence of interfacial instability. Journal of Fluid Mechanics, 2019, 859, 268-307.	3.4	56
11	A Review of Models for Bubble Clusters in Cavitating Flows. Flow, Turbulence and Combustion, 2019, 102, 497-536.	2.6	30
12	An all-Mach method for the simulation of bubble dynamics problems in the presence of surface tension. Journal of Computational Physics, 2018, 374, 752-768.	3.8	78
13	Oscillation regimes of gas/vapor bubbles. International Journal of Heat and Mass Transfer, 2017, 112, 72-80.	4.8	21
14	Investigation of the collapse of bubbles after the impact of a piston on a liquid free surface. AIChE Journal, 2017, 63, 2483-2495.	3.6	10
15	Shock Propagation Effects in Multilayer Assembly Including a Liquid Phase. Key Engineering Materials, 2017, 755, 181-189.	0.4	2
16	Spray formation in a quasiplanar gas-liquid mixing layer at moderate density ratios: A numerical closeup. Physical Review Fluids, 2017, 2, .	2.5	65
17	Nonlinear acoustic propagation in bubbly liquids: Multiple scattering, softening and hardening phenomena. Journal of the Acoustical Society of America, 2016, 139, 1703-1712.	1.1	16
18	Mass transfer effects on linear wave propagation in diluted bubbly liquids. Journal of Fluid Mechanics, 2015, 779, 598-621.	3.4	55

#	ARTICLE	IF	CITATIONS
19	The non-linear response of bubble clouds to pressure excitations. Journal of Physics: Conference Series, 2015, 656, 012123.	0.4	0
20	Multi-scale simulation of rainwater morphology evolution on a cylinder subjected to wind. Computers and Fluids, 2015, 123, 112-121.	2.5	12
21	Variational multiscale a posteriori error estimation for systems: The Euler and Navier-Stokes equations. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1493-1524.	6.6	18
22	Direct Numerical Simulations of Capillary Wave Turbulence. Physical Review Letters, 2014, 112, 234501.	7.8	46
23	Effect of direct bubble-bubble interactions on linear-wave propagation in bubbly liquids. Physical Review E, 2014, 90, 063010.	2.1	38
24	Multi-scale flow simulation of automotive catalytic converters. Chemical Engineering Science, 2014, 116, 161-171.	3.8	16
25	Stability of bubbly liquids and its connection to the process of cavitation inception. Physics of Fluids, 2014, 26, 042002.	4.0	9
26	Physics of Beer Tapping. Physical Review Letters, 2014, 113, 214501.	7.8	30
27	An energy preserving formulation for the simulation of multiphase turbulent flows. Journal of Computational Physics, 2013, 235, 114-128.	3.8	15
28	Instability regimes in the primary breakup region of planar coflowing sheets. Journal of Fluid Mechanics, 2013, 736, 150-176.	3.4	86
29	Investigation of a New Model for Bubbly Cavitating Flow. , 2012, , .		1
30	Modelling bubble clusters in compressible liquids. Journal of Fluid Mechanics, 2011, 688, 352-389.	3.4	88
31	Parallel simulation of multiphase flows using octree adaptivity and the volume-of-fluid method. Comptes Rendus - Mecanique, 2011, 339, 194-207.	2.1	66
32	Liquid compressibility effects during the collapse of a single cavitating bubble. Journal of the Acoustical Society of America, 2011, 129, 122-131.	1.1	59
33	Multiscale simulations of primary atomization. Computers and Fluids, 2010, 39, 1864-1874.	2.5	140
34	Instability growth rate of two-phase mixing layers from a linear eigenvalue problem and an initial-value problem. Physics of Fluids, 2010, 22, 092104.	4.0	32
35	Influence of the accommodation coefficient on nonlinear bubble oscillations. Journal of the Acoustical Society of America, 2010, 128, 5-10.	1.1	34
36	A Posteriori Error Estimation for Computational Fluid Dynamics: The Variational Multiscale Approach. Lecture Notes in Applied and Computational Mechanics, 2010, , 19-38.	2.2	4

#	ARTICLE	IF	CITATIONS
37	Variational Multiscale A Posteriori Error Estimation for Quantities of Interest. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	2.2	6
38	Parametric Analysis for a Single Collapsing Bubble. Flow, Turbulence and Combustion, 2009, 82, 25-46.	2.6	8
39	Simulation of primary atomization with an octree adaptive mesh refinement and VOF method. International Journal of Multiphase Flow, 2009, 35, 550-565.	3.4	212
40	Numerical simulation of droplets, bubbles and waves: state of the art. Fluid Dynamics Research, 2009, 41, 065001.	1.3	155
41	Variational multiscale a-posteriori error estimation for multi-dimensional transport problems. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 2701-2718.	6.6	33
42	Dynamics of a single cavitating and reacting bubble. Physical Review E, 2007, 75, 066310.	2.1	41
43	Application of Variational a-Posteriori Multiscale Error Estimation to Higher-Order Elements. Computational Mechanics, 2006, 38, 382-389.	4.0	13
44	Thermodynamics of Void Fraction in Saturated Flow Boiling. Journal of Heat Transfer, 2006, 128, 611-615.	2.1	9
45	Coupled Heat Transfer Phenomena in Cavitating Bubble Dynamics. , 2005, , 1017.		0