Alberto Vela-Martin

List of Publications by Year
in descending order

13 papers	185 citations	1163117 8 h-index	1199594 12 g-index
13 all docs	13 docs citations	13 times ranked	157 citing authors

#	Article	IF	Citations
1	The turbulent cascade in five dimensions. Science, 2017, 357, 782-784.	12.6	84
2	Deformation of drops by outer eddies in turbulence. Journal of Fluid Mechanics, 2021, 929, .	3.4	21
3	Entropy, irreversibility and cascades in the inertial range of isotropic turbulence. Journal of Fluid Mechanics, 2021, 915, .	3.4	13
4	The synchronisation of intense vorticity in isotropic turbulence. Journal of Fluid Mechanics, 2021, 913, .	3.4	11
5	A sub-grid scale cavitation inception model. Physics of Fluids, 2022, 34, .	4.0	10
6	Time-Periodic Inertial Range Dynamics. Physical Review Letters, 2019, 123, 134502.	7.8	9
7	nsCouette â€" A high-performance code for direct numerical simulations of turbulent Taylorâ€"Couette flow. SoftwareX, 2020, 11, 100395.	2.6	9
8	Subgrid-scale models of isotropic turbulence need not produce energy backscatter. Journal of Fluid Mechanics, 2022, 937, .	3.4	9
9	Pressure statistics of gas nuclei in homogeneous isotropic turbulence with an application to cavitation inception. Physics of Fluids, 2020, 32, .	4.0	8
10	The energy cascade as the origin of intense events in small-scale turbulence. Journal of Fluid Mechanics, 2022, 937, .	3.4	6
11	Periodic orbits in large eddy simulation of box turbulence. Fluid Dynamics Research, 2019, 51, 011411.	1.3	3
12	A low-storage method consistent with second-order statistics for time-resolved databases of turbulent channel flow up to $Re_\tau=5300$. Journal of Computational Science, 2021, 56, 101476.	2.9	2
13	A new statistical tool to study the geometry of intense vorticity clusters in turbulence. Journal of Physics: Conference Series, 2016, 708, 012004.	0.4	0