

# Alberto Vela-Martin

## List of Publications by Year in descending order

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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 energy cascade as the origin of intense events in small-scale turbulence. Journal of Fluid Mechanics, 2022, 937, .	3.4	6
2	Subgrid-scale models of isotropic turbulence need not produce energy backscatter. Journal of Fluid Mechanics, 2022, 937, .	3.4	9
3	A sub-grid scale cavitation inception model. Physics of Fluids, 2022, 34, .	4.0	10
4	The synchronisation of intense vorticity in isotropic turbulence. Journal of Fluid Mechanics, 2021, 913, .	3.4	11
5	Entropy, irreversibility and cascades in the inertial range of isotropic turbulence. Journal of Fluid Mechanics, 2021, 915, .	3.4	13
6	Deformation of drops by outer eddies in turbulence. Journal of Fluid Mechanics, 2021, 929, .	3.4	21
7	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
8	Pressure statistics of gas nuclei in homogeneous isotropic turbulence with an application to cavitation inception. Physics of Fluids, 2020, 32, .	4.0	8
9	nsCouette – A high-performance code for direct numerical simulations of turbulent Taylor–Couette flow. SoftwareX, 2020, 11, 100395.	2.6	9
10	Time-Periodic Inertial Range Dynamics. Physical Review Letters, 2019, 123, 134502.	7.8	9
11	Periodic orbits in large eddy simulation of box turbulence. Fluid Dynamics Research, 2019, 51, 011411.	1.3	3
12	The turbulent cascade in five dimensions. Science, 2017, 357, 782-784.	12.6	84
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