

# Francesco Viola

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

264  
citations

1040018

9  
h-index

940516

16  
g-index

24  
all docs

24  
docs citations

24  
times ranked

236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluid-Structure-Electrophysiology interaction (FSEI) in the left-heart: A multi-way coupled computational model. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 79, 212-232.	2.5	40
2	Hub vortex instability within wind turbine wakes: Effects of wind turbulence, loading conditions, and blade aerodynamics. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	25
3	Mode selection in trailing vortices: harmonic response of the non-parallel Batchelor vortex. <i>Journal of Fluid Mechanics</i> , 2016, 790, 523-552.	3.4	22
4	Capillary hysteresis in sloshing dynamics: a weakly nonlinear analysis. <i>Journal of Fluid Mechanics</i> , 2018, 837, 788-818.	3.4	20
5	Parabolic RANS solver for low-cost simulations of wind turbine wakes. <i>Wind Energy</i> , 2018, 21, 184-197.	4.2	19
6	FSEI-GPU: GPU accelerated simulations of the fluid-structure-electrophysiology interaction in the left heart. <i>Computer Physics Communications</i> , 2022, 273, 108248.	7.5	19
7	Theoretical framework to analyze the combined effect of surface tension and viscosity on the damping rate of sloshing waves. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	17
8	Foam on troubled water: Capillary induced finite-time arrest of sloshing waves. <i>Physics of Fluids</i> , 2016, 28, 091701.	4.0	16
9	Left Ventricular Hemodynamics with an Implanted Assist Device: An In Vitro Fluid Dynamics Study. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1799-1814.	2.5	13
10	A fast computational model for the electrophysiology of the whole human heart. <i>Journal of Computational Physics</i> , 2022, 457, 111084.	3.8	13
11	Reduced order model for optimization of power production from a wind farm. , 2016, , .		10
12	Modeling mitral valve stenosis: A parametric study on the stenosis severity level. <i>Journal of Biomechanics</i> , 2019, 84, 218-226.	2.1	9
13	Heart rate effects on the ventricular hemodynamics and mitral valve kinematics. <i>Computers and Fluids</i> , 2020, 197, 104359.	2.5	9
14	Direct numerical simulation of flapping flags in grid-induced turbulence. <i>Physics of Fluids</i> , 2021, 33, .	4.0	8
15	Method to determine the effective $\zeta$ potential in a microchannel with an embedded gate electrode. <i>Electrophoresis</i> , 2011, 32, 3295-3304.	2.4	7
16	Sloshing in a Hele-Shaw cell: experiments and theory. <i>Journal of Fluid Mechanics</i> , 2017, 831, .	3.4	6
17	Relaxation of capillary-gravity waves due to contact line nonlinearity: A projection method. <i>Chaos</i> , 2021, 31, 123124.	2.5	6
18	Sensitivity analysis of an electrophysiology model for the left ventricle. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200532.	3.4	4

#	ARTICLE	IF	CITATIONS
19	The viscous torsional pendulum. <i>Journal of Fluids and Structures</i> , 2017, 72, 25-37.	3.4	1
20	On the electrophysiology of the atrial fast conduction system: an uncertain quantification study. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 264-278.	3.4	0
21	A low-Reynolds-number actuator driven by instability: rotating or oscillating. <i>Nonlinear Dynamics</i> , 2021, 106, 2005.	5.2	0