Fernando Mellibovsky

List of Publications by Year
in descending order

35	757	516710 16	526287 27
papers	citations	h-index	g-index

37	37	37	444
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Streamwise-Localized Solutions at the Onset of Turbulence in Pipe Flow. Physical Review Letters, 2013, 110, 224502.	7.8	109
2	Bone Tissue Properties Measurement by Reference Point Indentation in Glucocorticoid-Induced Osteoporosis. Journal of Bone and Mineral Research, 2015, 30, 1651-1656.	2.8	78
3	Transition in Localized Pipe Flow Turbulence. Physical Review Letters, 2009, 103, 054502.	7.8	72
4	Edge State in Pipe Flow Experiments. Physical Review Letters, 2012, 108, 214502.	7.8	52
5	Instability mechanisms and transition scenarios of spiral turbulence in Taylor-Couette flow. Physical Review E, 2009, 80, 046315.	2.1	35
6	From travelling waves to mild chaos: a supercritical bifurcation cascade in pipe flow. Journal of Fluid Mechanics, 2012, 709, 149-190.	3.4	32
7	Characterization of three-dimensional vortical structures in the wake past a circular cylinder in the transitional regime. Physics of Fluids, 2020, 32, .	4.0	30
8	On a solenoidal Fourierâ€“Chebyshev spectral method for stability analysis of the Hagenâ€“Poiseuille flow. Applied Numerical Mathematics, 2007, 57, 920-938.	2.1	27
9	Takensâ€“Bogdanov bifurcation of travelling-wave solutions in pipe flow. Journal of Fluid Mechanics, 2011, 670, 96-129.	3.4	27
10	A mechanism for streamwise localisation of nonlinear waves in shear flows. Journal of Fluid Mechanics, 2015, 779, .	3.4	26
11	Pipe flow transition threshold following localized impulsive perturbations. Physics of Fluids, 2007, 19, 044102.	4.0	24
12	Solenoidal spectral formulations for the computation of secondary flows in cylindrical and annular geometries. European Physical Journal: Special Topics, 2007, 146, 249-259.	2.6	22
13	Critical threshold in pipe flow transition. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 545-560.	3.4	22
14	Active flow control optimisation on SD7003 airfoil at pre and post-stall angles of attack using synthetic jets. Applied Mathematical Modelling, 2021, 98, 435-464.	4.2	21
15	The role of streamwise perturbations in pipe flow transition. Physics of Fluids, 2006, 18, 074104.	4.0	19
16	The lid-driven right-angled isosceles triangular cavity flow. Journal of Fluid Mechanics, 2019, 875, 476-519.	3.4	17
17	Emergence of spatio-temporal dynamics from exact coherent solutions in pipe flow. New Journal of Physics, 2016, 18, 083031.	2.9	16
18	Families of subcritical spirals in highly counter-rotating Taylor-Couette flow. Physical Review E, 2009, 79, 036309.	2.1	14

#	Article	IF	Citations
19	Subcritical Equilibria in Taylor-Couette Flow. Physical Review Letters, 2014, 112, 184502.	7.8	14
20	Testing otter board hydrodynamic performances in wind tunnel facilities. Ocean Engineering, 2015, 104, 52-62.	4.3	14
21	New applications of numerical simulation based on lattice Boltzmann method at high Reynolds numbers. Computers and Mathematics With Applications, 2020, 79, 1718-1741.	2.7	14
22	Otterboard hydrodynamic performance testing in flume tank and wind tunnel facilities. Ocean Engineering, 2018, 149, 238-244.	4.3	10
23	Numerical investigation on the flow around a square cylinder with an upstream splitter plate at low Reynolds numbers. Meccanica, 2020, 55, 1037-1059.	2.0	10
24	Large Eddy Simulation of optimal Synthetic Jet Actuation on a SD7003 airfoil in post-stall conditions. Aerospace Science and Technology, 2022, 127, 107679.	4.8	8
25	Fold-pitchfork bifurcation for maps with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>symmetry in pipe flow. Physical Review E, 2013, 88, 013006.	2.1	6
26	Towards a better understanding of wall-driven square cavity flows using the lattice Boltzmann method. Applied Mathematical Modelling, 2020, 82, 469-486.	4.2	6
27	Fluidic Oscillators, Feedback Channel Effect under Compressible Flow Conditions. Sensors, 2021, 21, 5768.	3.8	6
28	Symmetry-breaking waves and space-time modulation mechanisms in two-dimensional plane Poiseuille flow. Physical Review Fluids, 2020, 5, .	2.5	6
29	Onset of temporal dynamics within a low reynolds-number laminar fluidic oscillator. Applied Mathematical Modelling, 2021, 95, 219-235.	4.2	5
30	Aerodynamic performances and wake topology past a square cylinder in the interface of two different-velocity streams. Physics of Fluids, 2022, 34, .	4.0	5
31	Fully nonlinear mode competition in magnetised Taylorâ€“Couette flow. Journal of Fluid Mechanics, 2020, 897, .	3.4	4
32	Extensional channel flow revisited: a dynamical systems perspective. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170151.	2.1	3
33	Global finite amplitude perturbations in medium aspect ratio pipe flow. Journal of Physics: Conference Series, 2005, 14, 192-205.	0.4	2
34	Transition to Periodic Behaviour of Flow Past a Circular Cylinder under the Action of Fluidic Actuation in the Transitional Regime. Energies, 2021, 14, 5069.	3.1	1
35	Active Flow Control past a circular cylinder at $ext{Re}=2000$. , 2021, , .		0