Damien Biau

List of Publications by Year
in descending order

18 papers	261 citations	932766 10 h-index	996533 15 g-index
18 all docs	18 docs citations	18 times ranked	233 citing authors

#	Article	IF	Citations
1	A reference solution of the flow over a circular cylinder at Re=40. Computers and Fluids, 2013, 75, 103-111.	1.3	41
2	An optimal path to transition in a duct. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 529-544.	1.6	37
3	Transient growth and minimal defects: Two possible initial paths of transition to turbulence in plane shear flows. Physics of Fluids, 2004, 16, 3515-3529.	1.6	33
4	Transition to turbulence in duct flow. Journal of Fluid Mechanics, 2008, 596, 133-142.	1.4	32
5	Closed-loop control of a free shear flow: a framework using the parabolized stability equations. Theoretical and Computational Fluid Dynamics, 2018, 32, 765-788.	0.9	22
6	The effect of stable thermal stratification on shear flow stability. Physics of Fluids, 2004, 16, 4742-4745.	1.6	14
7	Laminar-turbulent separatrix in a boundary layer flow. Physics of Fluids, 2012, 24, .	1.6	13
8	Transient growth of perturbations in Stokes oscillatory flows. Journal of Fluid Mechanics, 2016, 794, .	1.4	13
9	A transition prediction model for boundary layers subjected to free-stream turbulence. Aerospace Science and Technology, 2007, 11, 370-375.	2.5	11
10	Coherent flow states in a square duct. Physics of Fluids, 2008, 20, .	1.6	10
11	Closed-loop control of wavepackets in a free shear-flow. , 2016, , .		8
12	Restricted nonlinear model for high- and low-drag events in plane channel flow. Journal of Fluid Mechanics, 2019, 864, 221-243.	1.4	7
13	Flow in a weakly curved square duct: Assessment and extension of Dean's model. Physical Review Fluids, 2021, 6, .	1.0	7
14	Linear stability of channel entrance flow. European Journal of Mechanics, B/Fluids, 2008, 27, 579-590.	1.2	5
15	The first-digit frequencies in data of turbulent flows. Physica A: Statistical Mechanics and Its Applications, 2015, 440, 147-154.	1.2	4
16	A framework for closed-loop flow control using the parabolized stability equations. , 2017, , .		3
17	Exact self-similar solutions for axisymmetric wakes. Comptes Rendus - Mecanique, 2011, 339, 245-249.	2.1	1
18	The aeroacoustic field produced by a turbulent puff in a duct of square cross section. , 2020, , .		0