AdriÃ;n Lozano-DurÃ;n

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Effect of the computational domain on direct simulations of turbulent channels up to <i>Re</i> Ï,, = 4200. Physics of Fluids, 2014, 26, . | 4.0 | 318 |
| 2 | The three-dimensional structure of momentum transfer in turbulent channels. Journal of Fluid Mechanics, 2012, 694, 100-130. | 3.4 | 199 |
| 3 | Time-resolved evolution of coherent structures in turbulent channels: characterization of eddiesÂand cascades. Journal of Fluid Mechanics, 2014, 759, 432-471. | 3.4 | 172 |
| 4 | Aspect ratio effects in turbulent duct flows studied through direct numerical simulation. Journal of Turbulence, 2014, 15, 677-706. | 1.4 | 98 |
| 5 | Transitional–turbulent spots and turbulent–turbulent spots in boundary layers. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5292-E5299. | 7.1 | 85 |
| 6 | Dynamic slip wall model for large-eddyÂsimulation. Journal of Fluid Mechanics, 2019, 859, 400-432. | 3.4 | 80 |
| 7 | Resolvent-based estimation of space–time flowÂstatistics. Journal of Fluid Mechanics, 2020, 883, . | 3.4 | 66 |
| 8 | Coherent structures in statistically stationary homogeneous shear turbulence. Journal of Fluid Mechanics, 2017, 816, 167-208. | 3.4 | 65 |
| 9 | Turbulence intensities in large-eddy simulation of wall-bounded flows. Physical Review Fluids, 2018, 3, | 2.5 | 54 |
| 10 | Identity of attached eddies in turbulent channel flows with bidimensional empirical mode decomposition. Journal of Fluid Mechanics, 2019, 870, 1037-1071. | 3.4 | 48 |
| 11 | A statistical state dynamics-based study of the structure and mechanism of large-scale motions in plane Poiseuille flow. Journal of Fluid Mechanics, 2016, 809, 290-315. | 3.4 | 44 |
| 12 | Multiscale analysis of the topological invariants in the logarithmic region of turbulent channels at a friction Reynolds number of 932. Journal of Fluid Mechanics, 2016, 803, 356-394. | 3.4 | 41 |
| 13 | Characteristic scales of Townsend's wall-attached eddies. Journal of Fluid Mechanics, 2019, 868, 698-725. | 3.4 | 35 |
| 14 | Causality of energy-containing eddies in wallÂturbulence. Journal of Fluid Mechanics, 2020, 882, . | 3.4 | 34 |
| 15 | Non-equilibrium three-dimensional boundary layers at moderate Reynolds numbers. Journal of Fluid Mechanics, 2020, 883, . | 3.4 | 34 |
| 16 | Modeling boundary-layer transition in direct and large-eddy simulations using parabolized stability equations. Physical Review Fluids, 2018, 3, . | 2.5 | 34 |
| 17 | Flow Control in Wings and Discovery of Novel Approaches via Deep Reinforcement Learning. Fluids, 2022, 7, 62. | 1.7 | 29 |
| 18 | A multifractal model for the momentum transfer process in wall-bounded flows. Journal of Fluid Mechanics, 2017, 824, . | 3.4 | 27 |

AdriÃin Lozano-DurÃin

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|----|--|-----|-----------|
| 19 | Error scaling of large-eddy simulation in the outer region of wall-bounded turbulence. Journal of Computational Physics, 2019, 392, 532-555. | 3.8 | 25 |
| 20 | On the structure of streamwise wall-shear stress fluctuations in turbulent channel flows. Journal of Fluid Mechanics, 2020, 903, . | 3.4 | 24 |
| 21 | Uncovering Townsend's wall-attached eddies in low-Reynolds-number wall turbulence. Journal of Fluid Mechanics, 2020, 889, . | 3.4 | 23 |
| 22 | The coherent structure of the kinetic energy transfer in shear turbulence. Journal of Fluid Mechanics, 2020, 892, . | 3.4 | 23 |
| 23 | Cause-and-effect of linear mechanisms sustaining wall turbulence. Journal of Fluid Mechanics, 2021, 914, . | 3.4 | 23 |
| 24 | Performance of Wall-Modeled LES with Boundary-Layer-Conforming Grids for External Aerodynamics. AIAA Journal, 2022, 60, 747-766. | 2.6 | 21 |
| 25 | Turbulent windprint on a liquid surface. Journal of Fluid Mechanics, 2019, 873, 1020-1054. | 3.4 | 18 |
| 26 | Effect of Wall Boundary Conditions on a Wall-Modeled Large-Eddy Simulation in a Finite-Difference Framework. Fluids, 2021, 6, 112. | 1.7 | 18 |
| 27 | Prediction of trailing edge separation on the NASA Juncture Flow using wall-modeled LES. , 2020, , . | | 13 |
| 28 | Nonlinear mechanism of the self-sustaining process in the buffer and logarithmic layer of wall-bounded flows. Journal of Fluid Mechanics, 2021, 914, . | 3.4 | 13 |
| 29 | Information transfer between turbulent boundary layers and porous media. Journal of Fluid Mechanics, 2021, 920, . | 3.4 | 13 |
| 30 | Information-theoretic formulation of dynamical systems: Causality, modeling, and control. Physical Review Research, 2022, 4, . | 3.6 | 13 |
| 31 | Algorithm 964. ACM Transactions on Mathematical Software, 2016, 42, 1-19. | 2.9 | 11 |
| 32 | Numerically accurate computation of the conditional trajectories of the topological invariants in turbulent flows. Journal of Computational Physics, 2015, 295, 805-814. | 3.8 | 10 |
| 33 | Wall-Modeled Large-Eddy Simulation of Turbulent Boundary Layers with Mean-Flow Three-Dimensionality. AIAA Journal, 2021, 59, 1707-1717. | 2.6 | 9 |
| 34 | Intense Reynolds-stress events in turbulent ducts. International Journal of Heat and Fluid Flow, 2021, 89, 108802. | 2.4 | 7 |
| 35 | Active flow control for external aerodynamics: from micro air vehicles to a full aircraft in stall. Journal of Physics: Conference Series, 2020, 1522, 012017. | 0.4 | 5 |
| 36 | Effect of a weak current on wind-generated waves in the wrinkle regime. Physical Review Fluids, 2020, 5, . | 2.5 | 4 |

AdriÃin Lozano-DurÃin

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|----|--|-----|-----------|
| 37 | Amplitude and wall-normal distance variation of small scales in turbulent boundary layers. Physical Review Fluids, 2022, 7, . | 2.5 | 4 |
| 38 | Mandala-inspired representation of the turbulent energy cascade. Physical Review Fluids, 2018, 3, 100505. | 2.5 | 2 |
| 39 | On the structure of streamwise wall-shear stress fluctuations in turbulent channel flows. Journal of Physics: Conference Series, 2020, 1522, 012010. | 0.4 | 1 |
| 40 | The Turbulence Cascade in Physical Space. ERCOFTAC Series, 2019, , 45-50. | 0.1 | 0 |
| 41 | Alternative physics to understand wall turbulence: Navier–Stokes equations with modified linear dynamics. Journal of Physics: Conference Series, 2020, 1522, 012003. | 0.4 | 0 |
| 42 | Wall turbulence with constrained energy extraction from the mean flow. , 2018, 2018, 209-220. | | 0 |
| 43 | Assessment of information-theoretic-based control of turbulent flow separation of an aircraft in stall. , 2022, , . | | 0 |
| 44 | Information-Theoretic Approach for Subgrid-Scale Modeling for High-Speed Compressible Wall Turbulence. , 2022, , . | | 0 |