# Javier Jimenez

## List of Publications by Citations



| | | | |
|---|---|---|---|
| 166 papers | 11,880 citations | 49 h-index | 108 g-index |
| 176 ext. papers | 13,730 ext. citations | 3.3 avg, IF | 7.05 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 166 | TURBULENT FLOWS OVER ROUGH WALLS. *Annual Review of Fluid Mechanics*, **2004**, 36, 173-196 | 22 | 898 |
| 165 | The structure of intense vorticity in isotropic turbulence. *Journal of Fluid Mechanics*, **1993**, 255, 65 | 3.7 | 772 |
| 164 | The minimal flow unit in near-wall turbulence. *Journal of Fluid Mechanics*, **1991**, 225, 213-240 | 3.7 | 706 |
| 163 | Boltzmann Approach to Lattice Gas Simulations. *Europhysics Letters*, **1989**, 9, 663-668 | 1.6 | 624 |
| 162 | Scaling of the velocity fluctuations in turbulent channels up to Re□2003. *Physics of Fluids*, **2006**, 18, 011702 | 4.4 | 619 |
| 161 | The autonomous cycle of near-wall turbulence. *Journal of Fluid Mechanics*, **1999**, 389, 335-359 | 3.7 | 535 |
| 160 | Scaling of the energy spectra of turbulent channels. *Journal of Fluid Mechanics*, **2004**, 500, 135-144 | 3.7 | 463 |
| 159 | Spectra of the very large anisotropic scales in turbulent channels. *Physics of Fluids*, **2003**, 15, L41 | 4.4 | 317 |
| 158 | Self-similar vortex clusters in the turbulent logarithmic region. *Journal of Fluid Mechanics*, **2006**, 561, 329 | 3.7 | 261 |
| 157 | Estimation of turbulent convection velocities and corrections to Taylor's approximation. *Journal of Fluid Mechanics*, **2009**, 640, 5-26 | 3.7 | 234 |
| 156 | Reynolds number effects on the Reynolds-stress budgets in turbulent channels. *Physics of Fluids*, **2008**, 20, 101511 | 4.4 | 234 |
| 155 | Effect of the computational domain on direct simulations of turbulent channels up to Re□= 4200. *Physics of Fluids*, **2014**, 26, 011702 | 4.4 | 230 |
| 154 | One-point statistics for turbulent wall-bounded flows at Reynolds numbers up to □2000. *Physics of Fluids*, **2013**, 25, 105102 | 4.4 | 230 |
| 153 | Cascades in Wall-Bounded Turbulence. *Annual Review of Fluid Mechanics*, **2012**, 44, 27-45 | 22 | 220 |
| 152 | Linear energy amplification in turbulent channels. *Journal of Fluid Mechanics*, **2006**, 559, 205 | 3.7 | 215 |
| 151 | Turbulent boundary layers and channels at moderate Reynolds numbers. *Journal of Fluid Mechanics*, **2010**, 657, 335-360 | 3.7 | 198 |
| 150 | Drag reduction by riblets. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2011**, 369, 1412-27 | 3 | 187 |

| | | | |
|---|---|---|---|
| 149 | Coherent structures in wall-bounded turbulence. *Journal of Fluid Mechanics*, **2018**, 842, | 3.7 | 185 |
| 148 | Turbulent fluctuations above the buffer layer of wall-bounded flows. *Journal of Fluid Mechanics*, **2008**, 611, 215-236 | 3.7 | 180 |
| 147 | A high-resolution code for turbulent boundary layers. *Journal of Computational Physics*, **2009**, 228, 4218-4231 | 4.1 | 176 |
| 146 | On the performance of particle tracking. *Journal of Fluid Mechanics*, **1987**, 185, 447-468 | 3.7 | 156 |
| 145 | On the characteristics of vortex filaments in isotropic turbulence. *Journal of Fluid Mechanics*, **1998**, 373, 255-285 | 3.7 | 151 |
| 144 | The three-dimensional structure of momentum transfer in turbulent channels. *Journal of Fluid Mechanics*, **2012**, 694, 100-130 | 3.7 | 148 |
| 143 | Geometry and clustering of intense structures in isotropic turbulence. *Journal of Fluid Mechanics*, **2004**, 513, 111-133 | 3.7 | 140 |
| 142 | The large-scale dynamics of near-wall turbulence. *Journal of Fluid Mechanics*, **2004**, 505, 179-199 | 3.7 | 137 |
| 141 | Two-point statistics for turbulent boundary layers and channels at Reynolds numbers up to □ 2000. *Physics of Fluids*, **2014**, 26, 105109 | 4.4 | 128 |
| 140 | Time-resolved evolution of coherent structures in turbulent channels: characterization of eddies and cascades. *Journal of Fluid Mechanics*, **2014**, 759, 432-471 | 3.7 | 122 |
| 139 | Hydrodynamic stability and breakdown of the viscous regime over riblets. *Journal of Fluid Mechanics*, **2011**, 678, 317-347 | 3.7 | 122 |
| 138 | Hierarchy of minimal flow units in the logarithmic layer. *Physics of Fluids*, **2010**, 22, 071704 | 4.4 | 122 |
| 137 | On the generation of turbulent wall friction. *Physics of Fluids*, **1994**, 6, 634-641 | 4.4 | 119 |
| 136 | Turbulent shear flow over active and passive porous surfaces. *Journal of Fluid Mechanics*, **2001**, 442, 89-117 | 3.7 | 113 |
| 135 | A spanwise structure in the plane shear layer. *Journal of Fluid Mechanics*, **1983**, 132, 319-336 | 3.7 | 108 |
| 134 | Kinematic alignment effects in turbulent flows. *Physics of Fluids A, Fluid Dynamics*, **1992**, 4, 652-654 | | 105 |
| 133 | A priori testing of subgrid models for chemically reacting non-premixed turbulent shear flows. *Journal of Fluid Mechanics*, **1997**, 349, 149-171 | 3.7 | 93 |
| 132 | A perspective view of the plane mixing layer. *Journal of Fluid Mechanics*, **1985**, 152, 125-143 | 3.7 | 89 |

| | | | |
|---|---|---|---|
| 131 | Effect of wall-boundary disturbances on turbulent channel flows. *Journal of Fluid Mechanics*, **2006**, 566, 357 | 3.7 | 87 |
| 130 | Computer analysis of a high-speed film of the plane turbulent mixing layer. *Journal of Fluid Mechanics*, **1982**, 119, 323-345 | 3.7 | 83 |
| 129 | Characterization of near-wall turbulence in terms of equilibrium and bursting solutions. *Physics of Fluids*, **2005**, 17, 015105 | 4.4 | 81 |
| 128 | Transition to turbulence in two-dimensional Poiseuille flow. *Journal of Fluid Mechanics*, **1990**, 218, 265 | 3.7 | 70 |
| 127 | Computer graphic display method for visualizing three-dimensional biological structures. *Science*, **1986**, 232, 1113-5 | 33.3 | 70 |
| 126 | The structure of the vortices in freely decaying two-dimensional turbulence. *Journal of Fluid Mechanics*, **1996**, 313, 209-222 | 3.7 | 69 |
| 125 | How linear is wall-bounded turbulence?. *Physics of Fluids*, **2013**, 25, 110814 | 4.4 | 67 |
| 124 | On the structure and control of near wall turbulence. *Physics of Fluids*, **1994**, 6, 944-953 | 4.4 | 60 |
| 123 | What are we learning from simulating wall turbulence?. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 715-32 | 3 | 59 |
| 122 | Low-dimensional dynamics of a turbulent wall flow. *Journal of Fluid Mechanics*, **2001**, 435, 81-91 | 3.7 | 56 |
| 121 | The turbulent cascade in five dimensions. *Science*, **2017**, 357, 782-784 | 33.3 | 52 |
| 120 | Stability of a pair of co-rotating vortices. *Physics of Fluids*, **1975**, 18, 1580 | | 52 |
| 119 | Vorticity organization in the outer layer of turbulent channels with disturbed walls. *Journal of Fluid Mechanics*, **2007**, 591, 145-154 | 3.7 | 51 |
| 118 | Properties of the turbulent/non-turbulent interface in boundary layers. *Journal of Fluid Mechanics*, **2016**, 801, 554-596 | 3.7 | 49 |
| 117 | Large-Eddy Simulations: Where Are We and What Can We Expect?. *AIAA Journal*, **2000**, 38, 605-612 | 2.1 | 48 |
| 116 | Turbulent velocity fluctuations need not be Gaussian. *Journal of Fluid Mechanics*, **1998**, 376, 139-147 | 3.7 | 47 |
| 115 | Wall turbulence without walls. *Journal of Fluid Mechanics*, **2013**, 723, 429-455 | 3.7 | 46 |
| 114 | A thinning algorithm based on contours. *Computer Vision, Graphics, and Image Processing*, **1987**, 39, 186-201 | | 45 |

| | | | |
|---|---|---|---|
| 113 | A Critical Evaluation of the Resolution Properties of B-Spline and Compact Finite Difference Methods. *Journal of Computational Physics*, **2001**, 174, 510-551 | 4.1 | 44 |
| 112 | The physics of wall turbulence. *Physica A: Statistical Mechanics and Its Applications*, **1999**, 263, 252-262 | 3.3 | 44 |
| 111 | Coherent structures in statistically stationary homogeneous shear turbulence. *Journal of Fluid Mechanics*, **2017**, 816, 167-208 | 3.7 | 43 |
| 110 | A code for direct numerical simulation of turbulent boundary layers at high Reynolds numbers in BG/P supercomputers. *Computers and Fluids*, **2013**, 80, 37-43 | 2.8 | 43 |
| 109 | Cascades and wall-normal fluxes in turbulent channel flows. *Journal of Fluid Mechanics*, **2016**, 796, 417-436 | 3.7 | 43 |
| 108 | Algebraic probability density tails in decaying isotropic two-dimensional turbulence. *Journal of Fluid Mechanics*, **1996**, 313, 223-240 | 3.7 | 41 |
| 107 | Direct numerical simulation of statistically stationary and homogeneous shear turbulence and its relation to other shear flows. *Physics of Fluids*, **2016**, 28, 035101 | 4.4 | 41 |
| 106 | Nonlinear gas oscillations in pipes. Part 1. Theory. *Journal of Fluid Mechanics*, **1973**, 59, 23-46 | 3.7 | 40 |
| 105 | Computing high-Reynolds-number turbulence: will simulations ever replace experiments?. *Journal of Turbulence*, **2003**, 4, | 2.1 | 39 |
| 104 | Mean velocity and length-scales in the overlap region of wall-bounded turbulent flows. *Physics of Fluids*, **2011**, 23, 085112 | 4.4 | 35 |
| 103 | Hyperviscous vortices. *Journal of Fluid Mechanics*, **1994**, 279, 169-176 | 3.7 | 35 |
| 102 | Intermittency and cascades. *Journal of Fluid Mechanics*, **2000**, 409, 99-120 | 3.7 | 34 |
| 101 | Direct numerical simulation of a self-similar adverse pressure gradient turbulent boundary layer at the verge of separation. *Journal of Fluid Mechanics*, **2017**, 829, 392-419 | 3.7 | 33 |
| 100 | Direct numerical simulation of a self-similar adverse pressure gradient turbulent boundary layer. *International Journal of Heat and Fluid Flow*, **2016**, 61, 129-136 | 2.4 | 32 |
| 99 | On steady columnar vortices under local compression. *Journal of Fluid Mechanics*, **1995**, 299, 367-388 | 3.7 | 31 |
| 98 | The rollup of a vortex layer near a wall. *Journal of Fluid Mechanics*, **1993**, 248, 297-313 | 3.7 | 30 |
| 97 | 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 | 3.7 | 30 |
| 96 | Linear instability of a corrugated vortex sheet — a model for streak instability. *Journal of Fluid Mechanics*, **2003**, 483, 315-342 | 3.7 | 29 |

| | | | |
|---|---|---|---|
| 95 | On the visual growth of a turbulent mixing layer. *Journal of Fluid Mechanics*, **1980**, 96, 447-460 | 3.7 | 28 |
| 94 | Some Experiments in Image Vectorization. *IBM Journal of Research and Development*, **1982**, 26, 724-734 | 2.5 | 28 |
| 93 | Large-eddy simulations - Where are we and what can we expect?. *AIAA Journal*, **2000**, 38, 605-612 | 2.1 | 28 |
| 92 | Ejection mechanisms in the sublayer of a turbulent channel. *Physics of Fluids*, **1988**, 31, 1311 | | 27 |
| 91 | Direct detection of linearized bursts in turbulence. *Physics of Fluids*, **2015**, 27, 065102 | 4.4 | 26 |
| 90 | The temporal evolution of the energy flux across scales in homogeneous turbulence. *Physics of Fluids*, **2015**, 27, 111702 | 4.4 | 26 |
| 89 | 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 | 3.7 | 26 |
| 88 | Bifurcations and bursting in two-dimensional Poiseuille flow. *Physics of Fluids*, **1987**, 30, 3644 | | 25 |
| 87 | Scaling of turbulent structures in riblet channels up to Re□550. *Physics of Fluids*, **2012**, 24, 105101 | 4.4 | 24 |
| 86 | The growth of a mixing layer in a laminar channel. *Journal of Fluid Mechanics*, **2005**, 535, 245-254 | 3.7 | 23 |
| 85 | On the linear stability of the inviscid K□m□ vortex street. *Journal of Fluid Mechanics*, **1987**, 178, 177-194 | 3.7 | 23 |
| 84 | A boundary-layer analysis of Rayleigh-B□ard convection at large Rayleigh number. *Journal of Fluid Mechanics*, **1987**, 178, 53-71 | 3.7 | 22 |
| 83 | Characteristics of the turbulent/nonturbulent interface in boundary layers, jets and shear-free turbulence. *Journal of Physics: Conference Series*, **2014**, 506, 012015 | 0.3 | 18 |
| 82 | Simulations of turbulent channels with prescribed velocity profiles. *Journal of Fluid Mechanics*, **2013**, 723, 587-603 | 3.7 | 18 |
| 81 | Machine-aided turbulence theory. *Journal of Fluid Mechanics*, **2018**, 854, | 3.7 | 17 |
| 80 | Dynamics of homogeneous shear turbulence: A key role of the nonlinear transverse cascade in the bypass concept. *Physical Review E*, **2016**, 94, 023111 | 2.4 | 14 |
| 79 | Analysis of a Turbulent Boundary Layer Subjected to a Strong Adverse Pressure Gradient. *Journal of Physics: Conference Series*, **2014**, 506, 012007 | 0.3 | 13 |
| 78 | Fourier/Chebyshev methods for the incompressible Navier-Stokes equations in infinite domains. *Journal of Computational Physics*, **1995**, 121, 261-270 | 4.1 | 13 |

| | | | |
|---|---|---|---|
| 77 | Turbulence in the highly restricted dynamics of a closure at second order: comparison with DNS. *Journal of Physics: Conference Series*, **2014**, 506, 012004 | 0.3 | 12 |
| 76 | Small scale intermittency in turbulence. *European Journal of Mechanics, B/Fluids*, **1998**, 17, 405-419 | 2.4 | 11 |
| 75 | Linear stability of a non-symmetric, inviscid, K□mŠ street of small uniform vortices. *Journal of Fluid Mechanics*, **1988**, 189, 337-348 | 3.7 | 11 |
| 74 | Logarithmic-layer turbulence: A view from the wall. *Physical Review Fluids*, **2019**, 4, | 2.8 | 10 |
| 73 | On the Origin and Evolution of Three Dimensional Effects in the Mixing Layer **1979**, | | 10 |
| 72 | Fractal interfaces and product generation in the two-dimensional mixing layer. *Physics of Fluids A, Fluid Dynamics*, **1991**, 3, 1261-1268 | | 9 |
| 71 | Intense structures of different momentum fluxes in turbulent channels. *Physical Review Fluids*, **2018**, 3, | 2.8 | 9 |
| 70 | Numerically accurate computation of the conditional trajectories of the topological invariants in turbulent flows. *Journal of Computational Physics*, **2015**, 295, 805-814 | 4.1 | 8 |
| 69 | Spontaneous generation of vortex crystals from forced two-dimensional homogeneous turbulence. *Physics of Fluids*, **2007**, 19, 085103 | 4.4 | 8 |
| 68 | Optimal fluxes and Reynolds stresses. *Journal of Fluid Mechanics*, **2016**, 809, 585-600 | 3.7 | 8 |
| 67 | Vertically localised equilibrium solutions in large-eddy simulations of homogeneous shear flow. *Journal of Fluid Mechanics*, **2017**, 827, 225-249 | 3.7 | 7 |
| 66 | Turbulent pipe flow: Statistics,Re-dependence, structures and similarities with channel and boundary layer flows. *Journal of Physics: Conference Series*, **2014**, 506, 012010 | 0.3 | 7 |
| 65 | Direct Numerical Simulations of Wake-Perturbed Separated Boundary Layers. *Journal of Turbomachinery*, **2012**, 134, | 1.8 | 7 |
| 64 | On the survival of strong vortex filaments in □hodell□turbulence. *Journal of Fluid Mechanics*, **1999**, 394, 261-279 | 3.7 | 7 |
| 63 | The Role of Coherent Structure Interactions in the Regeneration of Wall Turbulence. *Fluid Mechanics and Its Applications*, **1998**, 155-158 | 0.2 | 7 |
| 62 | A binary tree implementation of a parallel distributed tridiagonal solver. *Parallel Computing*, **1995**, 21, 233-241 | 1 | 6 |
| 61 | Computers and turbulence. *European Journal of Mechanics, B/Fluids*, **2020**, 79, 1-11 | 2.4 | 6 |
| 60 | Direct simulation of a zero-pressure-gradient turbulent boundary layer up to$Re_\theta$ 6650. *Journal of Physics: Conference Series*, **2011**, 318, 022023 | 0.3 | 5 |

| | | | |
|---|---|---|---|
| 59 | The Contributions of A. N. Kolmogorov to the theory of turbulence. *Arbor*, **2004**, CLXXVIII, 589-606 | 0.2 | 5 |
| 58 | Hairpin vortices in turbulent boundary layers. *Journal of Physics: Conference Series*, **2014**, 506, 012008 | 0.3 | 4 |
| 57 | Approximate reconstruction of randomly sampled signals. *Signal Processing*, **1987**, 12, 153-168 | 4.4 | 4 |
| 56 | Momentum transfer by linearised eddies in turbulent channel flows. *Journal of Fluid Mechanics*, **2020**, 895, | 3.7 | 3 |
| 55 | Monte Carlo science. *Journal of Turbulence*, **2020**, 21, 544-566 | 2.1 | 3 |
| 54 | Stochastic self-energy subgrid model for the large eddy simulation of turbulent channel flows. *Journal of Physics: Conference Series*, **2014**, 506, 012001 | 0.3 | 3 |
| 53 | Scaling of velocity fluctuations in off-wall boundary conditions for turbulent flows. *Journal of Physics: Conference Series*, **2014**, 506, 012002 | 0.3 | 3 |
| 52 | Granger causality in wall-bounded turbulence. *Journal of Physics: Conference Series*, **2014**, 506, 012006 | 0.3 | 3 |
| 51 | Time-resolved Evolution of the Wall-bounded Vorticity Cascade. *Journal of Physics: Conference Series*, **2011**, 318, 062016 | 0.3 | 3 |
| 50 | Small Scale Vortices in Turbulent Flows **1993**, 95-110 | | 3 |
| 49 | Hybrid OpenMP-MPI Turbulent Boundary Layer Code Over 32k Cores. *Lecture Notes in Computer Science*, **2011**, 218-227 | 0.9 | 3 |
| 48 | Unstable periodic orbits in plane Couette flow with the Smagorinsky model. *Journal of Physics: Conference Series*, **2016**, 708, 012003 | 0.3 | 3 |
| 47 | The minimal channel: a fast and direct method for characterising roughness. *Journal of Physics: Conference Series*, **2016**, 708, 012010 | 0.3 | 3 |
| 46 | Shear layer models and computer analysis of data **1981**, 41-61 | | 3 |
| 45 | Towards the Direct Numerical Simulation of a Self-similar Adverse Pressure Gradient Turbulent Boundary Layer Flow **2017**, 61-75 | | 2 |
| 44 | Dynamics of Wall-Bounded Turbulence221-268 | | 2 |
| 43 | Hot-film sensors calibration drift in water. *Journal of Physics E: Scientific Instruments*, **1981**, 14, 569-572 | | 2 |
| 42 | Self-Similarity and Coherence in the Turbulent Cascade. *Fluid Mechanics and Its Applications*, **2001**, 57-66 | 0.2 | 2 |

| | | | |
|---|---|---|---|
| 41 | Entropy, irreversibility and cascades in the inertial range of isotropic turbulence. *Journal of Fluid Mechanics*, **2021**, 915, | 3.7 | 2 |
| 40 | Editorial opinion: public dissemination of raw turbulence data. *Journal of Physics: Conference Series*, **2016**, 708, 011002 | 0.3 | 2 |
| 39 | CLUSTERING OF INTENSE STRUCTURES IN ISOTROPIC TURBULENCE: NUMERICAL AND EXPERIMENTAL EVIDENCE. *Fluid Mechanics and Its Applications*, **2006**, 3-12 | 0.2 | 2 |
| 38 | THE NEAR-WALL STRUCTURES OF TURBULENT WALL FLOWS **2006**, 53-70 | | 2 |
| 37 | Reynolds stress structures in a self-similar adverse pressure gradient turbulent boundary layer at the verge of separation.. *Journal of Physics: Conference Series*, **2018**, 1001, 012001 | 0.3 | 1 |
| 36 | The attached reverse and detached forward cascades in wall-turbulent flows. *Journal of Physics: Conference Series*, **2014**, 506, 012005 | 0.3 | 1 |
| 35 | Intermittency in Turbulence **2006**, 144-151 | | 1 |
| 34 | Wall turbulence without walls. *Springer Proceedings in Physics*, **2009**, 597-600 | 0.2 | 1 |
| 33 | Log-Layer Dynamics in Smooth and Artificially-Rough Turbulent Channels. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2010**, 93-98 | 0.3 | 1 |
| 32 | Direct simulations of wall-bounded turbulence. *ERCOFTAC Series*, **2011**, 3-8 | 0.1 | 1 |
| 31 | Statistical Properties of Decaying Two-Dimensional Turbulence. *Fluid Mechanics and Its Applications*, **1995**, 11-15 | 0.2 | 1 |
| 30 | COMPUTING HIGH-REYNOLDS NUMBER CHANNELS: WILL DNS EVER SUBSTITUTE EXPERIMENTS? **2002**, 17-27 | | 1 |
| 29 | A POD-based analysis of turbulence in the reduced nonlinear dynamics system. *Journal of Physics: Conference Series*, **2016**, 708, 012002 | 0.3 | 1 |
| 28 | Homogeneous shear turbulence bypass concept via interplay of linear transient growth and nonlinear transverse cascade. *Journal of Physics: Conference Series*, **2016**, 708, 012001 | 0.3 | 1 |
| 27 | Intense structures of different momentum fluxes in turbulent channels. *Journal of Physics: Conference Series*, **2018**, 1001, 012003 | 0.3 | 1 |
| 26 | Description and detection of burst events in turbulent flows. *Journal of Physics: Conference Series*, **2018**, 1001, 012015 | 0.3 | 1 |
| 25 | Effect of limited near-wall inlet data on the direct numerical simulation of turbulent channel flow. *Journal of Physics: Conference Series*, **2020**, 1522, 012019 | 0.3 | 0 |
| 24 | A low-storage method consistent with second-order statistics for time-resolved databases of turbulent channel flow up to Re 5300. *Journal of Computational Science*, **2021**, 56, 101476 | 3.4 | 0 |

| | | |
|---|---|---|
| 23 | The Turbulence Cascade in Physical Space. *ERCOFTAC Series*, **2019**, 45-50 | 0.1 |
| 22 | Coherent Structures in Wall-Bounded Turbulence. *ERCOFTAC Series*, **2016**, 37-46 | 0.1 |
| 21 | A Marker for Studying the Turbulent Energy Cascade in Real Space. *Springer Proceedings in Physics*, **2016**, 27-31 | 0.2 |
| 20 | Influence of solid boundary conditions on the evolution of free and wall-bounded turbulent flows. *Journal of Physics: Conference Series*, **2014**, 506, 012014 | 0.3 |
| 19 | Linearised Structures in Shear Turbulence. *Procedia IUTAM*, **2015**, 14, 122-128 | |
| 18 | Scaling of pressure spectrum in turbulent boundary layers. *Journal of Physics: Conference Series*, **2014**, 506, 012011 | 0.3 |
| 17 | Possible modification of the large-scale flow structures by vortical structural interactions. *Journal of Physics: Conference Series*, **2014**, 506, 012012 | 0.3 |
| 16 | Numerical issues in Lagrangian tracking and topological evolution of fluid particles in wall-bounded turbulent flows. *Journal of Physics: Conference Series*, **2014**, 506, 012003 | 0.3 |
| 15 | Corrections to Taylor's Approximation from Computed Turbulent Convection Velocities. *ERCOFTAC Series*, **2011**, 211-218 | 0.1 |
| 14 | Inner-Outer Interactions in Wall-Bounded Turbulence. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2010**, 3-14 | 0.3 |
| 13 | What do we need to substitute experiments with simulations in turbulence? **1996**, 1-8 | |
| 12 | The Largest Scales in Turbulent Flow: The Structures of the Wall Layer. *Lecture Notes in Physics*, **2001**, 39-57 | 0.8 |
| 11 | Axial dynamics of viscous vortices. *Lecture Notes in Physics*, **1995**, 83-88 | 0.8 |
| 10 | Solitary waves on a vorticity layer. *Journal of Fluid Mechanics*, **1994**, 264, 303-319 | 3.7 |
| 9 | Coherent dynamics in wall turbulence **2002**, 229-240 | |
| 8 | Very Large Anisotropic Scales in Turbulent Wall-Bounded Flows **2003**, 105-112 | |
| 7 | The Near-Wall Structures of the Turbulent Boundary Layer. *Solid Mechanics and Its Applications*, **2006**, 209-220 | 0.4 |
| 6 | Some Contributions and Challenges of Computational Turbulence Research. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2008**, 3-10 | 0.3 |

# List of Publications

| | | |
|---|---|---|
| 5 | The Role of Computation in Transition Research **1991**, 170-181 | |
| 4 | A Preliminary Study on the Formation of Elongated Vortices in Turbulence. *Fluid Mechanics and Its Applications*, **1995**, 519-523 | 0.2 |
| 3 | On the Generation of Intermittent Gradients in a Deterministically Forced Burgers Equation. *Fluid Mechanics and Its Applications*, **1998**, 223-226 | 0.2 |
| 2 | Dynamics of the Structures of Near Wall Turbulence. *Fluid Mechanics and Its Applications*, **1999**, 41-49 | 0.2 |
| 1 | Comparison of the Direct Numerical Simulation of Zero and Low Adverse Pressure Gradient Turbulent Boundary Layers. *Lecture Notes in Mechanical Engineering*, **2016**, 163-168 | 0.4 |