

Věclav Kolář

List of Publications by Year in descending order

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33
papers

734
citations

933447

10
h-index

526287

27
g-index

35
all docs

35
docs citations

35
times ranked

638
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Vortex identification: New requirements and limitations. International Journal of Heat and Fluid Flow, 2007, 28, 638-652. | 2.4 | 371 |
| 2 | Ensemble-averaged measurements in the turbulent near wake of two side-by-side square cylinders. Journal of Fluid Mechanics, 1997, 346, 201-237. | 3.4 | 98 |
| 3 | Compressibility Effect in Vortex Identification. AIAA Journal, 2009, 47, 473-475. | 2.6 | 49 |
| 4 | Corotational and Compressibility Aspects Leading to a Modification of the Vortex-Identification Q-Criterion. AIAA Journal, 2015, 53, 2406-2410. | 2.6 | 30 |
| 5 | Vorticity transport within twin jets in crossflow. Experimental Thermal and Fluid Science, 2003, 27, 563-571. | 2.7 | 25 |
| 6 | Dominant flow features of twin jets and plumes in crossflow. Journal of Wind Engineering and Industrial Aerodynamics, 2007, 95, 1199-1215. | 3.9 | 23 |
| 7 | Average Corotation of Line Segments Near a Point and Vortex Identification. AIAA Journal, 2013, 51, 2678-2694. | 2.6 | 20 |
| 8 | The swirling radial jet. Flow, Turbulence and Combustion, 1982, 39, 329-335. | 0.2 | 13 |
| 9 | HYDRODYNAMICS OF A RADially DISCHARGING IMPELLER STREAM IN AGITATED VESSELS. Chemical Engineering Communications, 1984, 27, 313-326. | 2.6 | 13 |
| 10 | Consequences of the close relation between Rortex and swirling strength. Physics of Fluids, 2020, 32, 091702. | 4.0 | 13 |
| 11 | Stretching response of Rortex and other vortex-identification schemes. AIP Advances, 2019, 9, 105025. | 1.3 | 11 |
| 12 | Experiments with a drag reducing polymer in an ash-slag hydrotransport pipeline. Journal of Hydraulic Research/De Recherches Hydrauliques, 1988, 26, 143-158. | 1.7 | 8 |
| 13 | On the critical points in the description of vortical flows. Acta Mechanica, 1991, 89, 241-245. | 2.1 | 6 |
| 14 | A note on integral vortex strength. Journal of Hydrology and Hydromechanics, 2010, 58, . | 2.0 | 6 |
| 15 | Vortex and the Balance between Vorticity and Strain Rate. International Journal of Aerospace Engineering, 2019, 2019, 1-8. | 0.9 | 6 |
| 16 | Space flow geometry of the radial free, wall and liquid jets with swirl. Flow, Turbulence and Combustion, 1985, 42, 185-196. | 0.2 | 5 |
| 17 | Vorticity and Circulation Aspects of Twin Jets in Cross-Flow for an Oblique Nozzle Arrangement. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2006, 220, 247-252. | 1.3 | 5 |
| 18 | Similarity prediction of wall jets on bodies of revolution. Acta Mechanica, 1989, 76, 253-263. | 2.1 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Similarity prediction of wall jets past axisymmetric bodies for power-law fluids. Acta Mechanica, 1991, 88, 167-173. | 2.1 | 4 |
| 20 | Centerline Vorticity Transport Within a Jet in Crossflow. AIAA Journal, 2000, 38, 1763-1765. | 2.6 | 4 |
| 21 | A note on the radial wall jet with swirl. Acta Mechanica, 1986, 60, 41-47. | 2.1 | 3 |
| 22 | On the invariant turbulence measures. Acta Mechanica, 1992, 91, 113-117. | 2.1 | 3 |
| 23 | Similarity solution of axisymmetric non-Newtonian wall jets with swirl. Nonlinear Analysis: Real World Applications, 2011, 12, 3413-3420. | 1.7 | 2 |
| 24 | Centerline vorticity transport within a jet in crossflow. AIAA Journal, 2000, 38, 1763-1765. | 2.6 | 2 |
| 25 | Complex Swirling Radial Jets. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1985, 65, 441-446. | 1.6 | 1 |
| 26 | On the swirling wall jets on bodies of revolution. International Journal of Engineering Science, 1990, 28, 115-121. | 5.0 | 1 |
| 27 | Diagnostic equations for two-dimensional vortical flows. Acta Mechanica, 1997, 120, 227-231. | 2.1 | 1 |
| 28 | On the lyman problem. Open Physics, 2003, 1, . | 1.7 | 1 |
| 29 | Triple Decomposition Method for Vortex Identification in Two-Dimensional and Three-Dimensional Flows. , 2011, , 225-231. | | 1 |
| 30 | Average contra-rotation and co-rotation of line segments for flow field analysis. Journal of Physics: Conference Series, 2017, 822, 012070. | 0.4 | 1 |
| 31 | An experimental study of interacting coherent structures in the turbulent near wake behind a pair of square cylinders. Flow, Turbulence and Combustion, 1993, 51, 417-421. | 0.2 | 0 |
| 32 | Characteristic measure of the departure from the eddy-viscosity model. Acta Mechanica, 1993, 100, 125-128. | 2.1 | 0 |
| 33 | On the Local Axisymmetry of a Vortex. Lecture Notes in Mechanical Engineering, 2021, , 175-183. | 0.4 | 0 |