

# Věclav Kolář

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9070983/publications.pdf>

Version: 2024-02-01

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	On the Local Axisymmetry of a Vortex. Lecture Notes in Mechanical Engineering, 2021, , 175-183.	0.4	0
2	Consequences of the close relation between Rortex and swirling strength. Physics of Fluids, 2020, 32, 091702.	4.0	13
3	Vortex and the Balance between Vorticity and Strain Rate. International Journal of Aerospace Engineering, 2019, 2019, 1-8.	0.9	6
4	Stretching response of Rortex and other vortex-identification schemes. AIP Advances, 2019, 9, 105025.	1.3	11
5	Average contra-rotation and co-rotation of line segments for flow field analysis. Journal of Physics: Conference Series, 2017, 822, 012070.	0.4	1
6	Corotational and Compressibility Aspects Leading to a Modification of the Vortex-Identification Q-Criterion. AIAA Journal, 2015, 53, 2406-2410.	2.6	30
7	Average Corotation of Line Segments Near a Point and Vortex Identification. AIAA Journal, 2013, 51, 2678-2694.	2.6	20
8	Similarity solution of axisymmetric non-Newtonian wall jets with swirl. Nonlinear Analysis: Real World Applications, 2011, 12, 3413-3420.	1.7	2
9	Triple Decomposition Method for Vortex Identification in Two-Dimensional and Three-Dimensional Flows. , 2011, , 225-231.		1
10	A note on integral vortex strength. Journal of Hydrology and Hydromechanics, 2010, 58, .	2.0	6
11	Compressibility Effect in Vortex Identification. AIAA Journal, 2009, 47, 473-475.	2.6	49
12	Dominant flow features of twin jets and plumes in crossflow. Journal of Wind Engineering and Industrial Aerodynamics, 2007, 95, 1199-1215.	3.9	23
13	Vortex identification: New requirements and limitations. International Journal of Heat and Fluid Flow, 2007, 28, 638-652.	2.4	371
14	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
15	On the Lyman problem. Open Physics, 2003, 1, .	1.7	1
16	Vorticity transport within twin jets in crossflow. Experimental Thermal and Fluid Science, 2003, 27, 563-571.	2.7	25
17	Centerline Vorticity Transport Within a Jet in Crossflow. AIAA Journal, 2000, 38, 1763-1765.	2.6	4
18	Centerline vorticity transport within a jet in crossflow. AIAA Journal, 2000, 38, 1763-1765.	2.6	2

#	ARTICLE	IF	CITATIONS
19	Ensemble-averaged measurements in the turbulent near wake of two side-by-side square cylinders. <i>Journal of Fluid Mechanics</i> , 1997, 346, 201-237.	3.4	98
20	Diagnostic equations for two-dimensional vortical flows. <i>Acta Mechanica</i> , 1997, 120, 227-231.	2.1	1
21	An experimental study of interacting coherent structures in the turbulent near wake behind a pair of square cylinders. <i>Flow, Turbulence and Combustion</i> , 1993, 51, 417-421.	0.2	0
22	Characteristic measure of the departure from the eddy-viscosity model. <i>Acta Mechanica</i> , 1993, 100, 125-128.	2.1	0
23	On the invariant turbulence measures. <i>Acta Mechanica</i> , 1992, 91, 113-117.	2.1	3
24	On the critical points in the description of vortical flows. <i>Acta Mechanica</i> , 1991, 89, 241-245.	2.1	6
25	Similarity prediction of wall jets past axisymmetric bodies for power-law fluids. <i>Acta Mechanica</i> , 1991, 88, 167-173.	2.1	4
26	On the swirling wall jets on bodies of revolution. <i>International Journal of Engineering Science</i> , 1990, 28, 115-121.	5.0	1
27	Similarity prediction of wall jets on bodies of revolution. <i>Acta Mechanica</i> , 1989, 76, 253-263.	2.1	4
28	Experiments with a drag reducing polymer in an ash-slag hydrotransport pipeline. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1988, 26, 143-158.	1.7	8
29	A note on the radial wall jet with swirl. <i>Acta Mechanica</i> , 1986, 60, 41-47.	2.1	3
30	Complex Swirling Radial Jets. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 1985, 65, 441-446.	1.6	1
31	Space flow geometry of the radial free, wall and liquid jets with swirl. <i>Flow, Turbulence and Combustion</i> , 1985, 42, 185-196.	0.2	5
32	HYDRODYNAMICS OF A RADIALLY DISCHARGING IMPELLER STREAM IN AGITATED VESSELS. <i>Chemical Engineering Communications</i> , 1984, 27, 313-326.	2.6	13
33	The swirling radial jet. <i>Flow, Turbulence and Combustion</i> , 1982, 39, 329-335.	0.2	13