

# Helmut Eckelmann

## List of Publications by Year in descending order

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37  
papers

3,939  
citations

304368

22  
h-index

454577

30  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1751  
citing authors

#	ARTICLE	IF	CITATIONS
1	The wall region in turbulent shear flow. <i>Journal of Fluid Mechanics</i> , 1972, 54, 39-48.	1.4	681
2	The structure of the viscous sublayer and the adjacent wall region in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 1974, 65, 439-459.	1.4	366
3	On the transition of the cylinder wake. <i>Physics of Fluids</i> , 1995, 7, 779-794.	1.6	354
4	Behavior of the three fluctuating velocity components in the wall region of a turbulent channel flow. <i>Physics of Fluids</i> , 1979, 22, 1233.	1.4	292
5	The fluctuating wall-shear stress and the velocity field in the viscous sublayer. <i>Physics of Fluids</i> , 1988, 31, 1026.	1.4	265
6	A new Strouhal-Reynolds-number relationship for the circular cylinder in the range $47 < Re < 2 \cdot 10^5$ . <i>Physics of Fluids</i> , 1998, 10, 1547-1549.	1.6	263
7	Streamwise vortices associated with the bursting phenomenon. <i>Journal of Fluid Mechanics</i> , 1979, 94, 577-594.	1.4	254
8	A global stability analysis of the steady and periodic cylinder wake. <i>Journal of Fluid Mechanics</i> , 1994, 270, 297-330.	1.4	182
9	Influence of end plates and free ends on the shedding frequency of circular cylinders. <i>Journal of Fluid Mechanics</i> , 1982, 122, 109.	1.4	177
10	Some properties of truncated turbulence signals in bounded shear flows. <i>Journal of Fluid Mechanics</i> , 1974, 63, 209.	1.4	167
11	Vortex splitting and its consequences in the vortex street wake of cylinders at low Reynolds number. <i>Physics of Fluids A, Fluid Dynamics</i> , 1989, 1, 189-192.	1.6	167
12	A low-dimensional Galerkin method for the three-dimensional flow around a circular cylinder. <i>Physics of Fluids</i> , 1994, 6, 124-143.	1.6	114
13	Pattern-recognized structures in bounded turbulent shear flows. <i>Journal of Fluid Mechanics</i> , 1977, 83, 673-693.	1.4	96
14	Propagation of perturbations in the viscous sublayer and adjacent wall region. <i>Journal of Fluid Mechanics</i> , 1979, 95, 305-322.	1.4	94
15	On cell formation in vortex streets. <i>Journal of Fluid Mechanics</i> , 1991, 227, 293-308.	1.4	76
16	The fine structure in the Strouhal-Reynolds number relationship of the laminar wake of a circular cylinder. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 1607-1614.	1.6	74
17	Measurement of streamwise vorticity fluctuations in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 1983, 137, 165-186.	1.4	62
18	Vorticity and turbulence production in pattern recognized turbulent flow structures. <i>Physics of Fluids</i> , 1977, 20, S225.	1.4	41

#	ARTICLE	IF	CITATIONS
19	Discrete shedding modes in the von Kármán vortex street. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1846-1848.	1.6	29
20	Visualization of the spanwise cellular structure of the laminar wake of wall-bounded circular cylinders. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 869-872.	1.6	27
21	Three-dimensional stability analysis of the periodic flow around a circular cylinder. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1279-1281.	1.6	23
22	The effect of endplates on the shedding frequency of circular cylinders in the irregular range. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 2116-2121.	1.6	22
23	On chaos in wakes. <i>Physica D: Nonlinear Phenomena</i> , 1992, 56, 151-164.	1.3	22
24	Laterally converging duct flows. Part 3. Mean turbulence structure in the viscous layer. <i>Journal of Fluid Mechanics</i> , 2006, 549, 25.	1.4	17
25	Modeling of a von Kármán vortex street at low Reynolds numbers. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 1707-1714.	1.6	16
26	Construction and analysis of differential equations from experimental time series of oscillatory systems. <i>Physica D: Nonlinear Phenomena</i> , 1992, 56, 389-405.	1.3	16
27	Laterally converging duct flows. Part 4. Temporal behaviour in the viscous layer. <i>Journal of Fluid Mechanics</i> , 2009, 634, 433.	1.4	14
28	Has a small-scale structure in turbulence been experimentally verified?. <i>Physics of Fluids</i> , 1983, 26, 2408.	1.4	8
29	Instantaneous direction of the velocity vector in a fully developed turbulent channel flow. <i>Physics of Fluids</i> , 1979, 22, 1210.	1.4	7
30	Pattern Recognition, a Means for Detection of Coherent Structures in Bounded Turbulent Shear Flows. , 1978, , 161-172.		5
31	A comparison of characteristic features of coherent turbulent structures found using the variable interval time average (VITA) technique and using the pattern recognition technique. , 1981, , 292-303.		3
32	Refinement of pattern recognition of coherent structures in turbulent shear flows and a comparison between detection techniques. , 1985, , 279-291.		3
33	On the Relation between Fronts and High-Shear Layers in Wall Turbulence. <i>Flow, Turbulence and Combustion</i> , 1998, 60, 87-103.	1.4	2
34	The Structure near the Wall in Turbulent Shear Flow. , 1985, , 209-221.		0
35	Flow around finite lengthed cylinders at low Reynolds number: End effects and their origins. <i>Notes on Numerical Fluid Mechanics</i> , 1993, , 208-215.	0.1	0
36	Elektromechanische Wandler und Messung von Schwankungsgrößen. , 1997, , 68-141.		0

#	ARTICLE	IF	CITATIONS
37	Versuchsanlagen für Modelluntersuchungen. , 1997, , 278-342.		0