Helmut Eckelmann

List of Publications by Year
in descending order

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	Laterally converging duct flows. Part 4. Temporal behaviour in the viscous layer. Journal of Fluid Mechanics, 2009, 634, 433.	1.4	14
2	Laterally converging duct flows. Part 3. Mean turbulence structure in the viscous layer. Journal of Fluid Mechanics, 2006, 549, 25.	1.4	17
3	On the Relation between Fronts and High-Shear Layers in Wall Turbulence. Flow, Turbulence and Combustion, 1998, 60, 87-103.	1.4	2
4	A new Strouhalâ€"Reynolds-number relationship for the circular cylinder in the range 47<Re<2Ã—105. Physics of Fluids, 1998, 10, 1547-1549.	1.6	263
5	Elektromechanische Wandler und Messung von SchwankungsgrÃ¶ÃŸen. , 1997, , 68-141.		0
6	Versuchsanlagen fÃ¼r Modelluntersuchungen. , 1997, , 278-342.		0
7	On the transition of the cylinder wake. Physics of Fluids, 1995, 7, 779-794.	1.6	354
8	A lowâ€dimensional Galerkin method for the threeâ€dimensional flow around a circular cylinder. Physics of Fluids, 1994, 6, 124-143.	1.6	114
9	A global stability analysis of the steady and periodic cylinder wake. Journal of Fluid Mechanics, 1994, 270, 297-330.	1.4	182
10	Discrete shedding modes in the von KÃ¡rmÃ¡n vortex street. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1846-1848.	1.6	29
11	Threeâ€dimensional stability analysis of the periodic flow around a circular cylinder. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1279-1281.	1.6	23
12	Flow around finite lengthed cylinders at low Reynolds number: End effects and their origins. Notes on Numerical Fluid Mechanics, 1993, , 208-215.	0.1	0
13	Visualization of the spanwise cellular structure of the laminar wake of wallâ€bounded circular cylinders. Physics of Fluids A, Fluid Dynamics, 1992, 4, 869-872.	1.6	27
14	Modeling of a von KÃ¡rmÃ¡n vortex street at low Reynolds numbers. Physics of Fluids A, Fluid Dynamics, 1992, 4, 1707-1714.	1.6	16
15	On chaos in wakes. Physica D: Nonlinear Phenomena, 1992, 56, 151-164.	1.3	22
16	Construction and analysis of differential equations from experimental time series of oscillatory systems. Physica D: Nonlinear Phenomena, 1992, 56, 389-405.	1.3	16
17	On cell formation in vortex streets. Journal of Fluid Mechanics, 1991, 227, 293-308.	1.4	76
18	The effect of endplates on the shedding frequency of circular cylinders in the irregular range. Physics of Fluids A, Fluid Dynamics, 1991, 3, 2116-2121.	1.6	22

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19	The fine structure in the Strouhalâ€“Reynolds number relationship of the laminar wake of a circular cylinder. Physics of Fluids A, Fluid Dynamics, 1990, 2, 1607-1614.	1.6	74
20	Vortex splitting and its consequences in the vortex street wake of cylinders at low Reynolds number. Physics of Fluids A, Fluid Dynamics, 1989, 1, 189-192.	1.6	167
21	The fluctuating wall-shear stress and the velocity field in the viscous sublayer. Physics of Fluids, 1988, 31, 1026.	1.4	265
22	Refinement of pattern recognition of coherent structures in turbulent shear flows and a comparison between detection techniques. , 1985, , 279-291.		3
23	The Structure near the Wall in Turbulent Shear Flow. , 1985, , 209-221.		0
24	Measurement of streamwise vorticity fluctuations in a turbulent channel flow. Journal of Fluid Mechanics, 1983, 137, 165-186.	1.4	62
25	Has a small-scale structure in turbulence been experimentally verified?. Physics of Fluids, 1983, 26, 2408.	1.4	8
26	Influence of end plates and free ends on the shedding frequency of circular cylinders. Journal of Fluid Mechanics, 1982, 122, 109.	1.4	177
27	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
28	Instantaneous direction of the velocity vector in a fully developed turbulent channel flow. Physics of Fluids, 1979, 22, 1210.	1.4	7
29	Behavior of the three fluctuating velocity components in the wall region of a turbulent channel flow. Physics of Fluids, 1979, 22, 1233.	1.4	292
30	Propagation of perturbations in the viscous sublayer and adjacent wall region. Journal of Fluid Mechanics, 1979, 95, 305-322.	1.4	94
31	Streamwise vortices associated with the bursting phenomenon. Journal of Fluid Mechanics, 1979, 94, 577-594.	1.4	254
32	Pattern Recognition, a Means for Detection of Coherent Structures in Bounded Turbulent Shear Flows. , 1978, , 161-172.		5
33	Vorticity and turbulence production in pattern recognized turbulent flow structures. Physics of Fluids, 1977, 20, S225.	1.4	41
34	Pattern-recognized structures in bounded turbulent shear flows. Journal of Fluid Mechanics, 1977, 83, 673-693.	1.4	96
35	The structure of the viscous sublayer and the adjacent wall region in a turbulent channel flow. Journal of Fluid Mechanics, 1974, 65, 439-459.	1.4	366
36	Some properties of truncated turbulence signals in bounded shear flows. Journal of Fluid Mechanics, 1974, 63, 209.	1.4	167

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37	The wall region in turbulent shear flow. Journal of Fluid Mechanics, 1972, 54, 39-48.	1.4	681