Jan G Wissink

List of Publications by Year
in descending order

56 papers	1,384 citations	471509 17 h-index	345221 36 g-index
58 all docs	58 docs citations	58 times ranked	655 citing authors

#	Article	IF	Citations
1	Direct numerical simulation of turbulent mass transfer at the surface of an open channel flow. Journal of Fluid Mechanics, 2022, 933, .	3.4	7
2	Effect of Free-Slip and No-Slip Boundaries on Isotropic Turbulence. ERCOFTAC Series, 2020, , 17-23.	0.1	1
3	Simulation of airâ€“water interfacial mass transfer driven by high-intensity isotropic turbulence. Journal of Fluid Mechanics, 2019, 860, 419-440.	3.4	9
4	Asymptotic analysis of the attractors in two-dimensional Kolmogorov flow. European Journal of Applied Mathematics, 2018, 29, 393-416.	2.9	3
5	Effect of hydraulic diameter and aspect ratio on single phase flow and heat transfer in a rectangular microchannel. Applied Thermal Engineering, 2017, 115, 793-814.	6.0	108
6	Effect of surface contamination on interfacial mass transfer rate. Journal of Fluid Mechanics, 2017, 830, 5-34.	3.4	12
7	Isotropic-turbulence-induced mass transfer across a severely contaminated water surface. Journal of Fluid Mechanics, 2016, 797, 665-682.	3.4	16
8	Direct numerical simulation of gas transfer across the airâ€“water interface driven by buoyantÂconvection. Journal of Fluid Mechanics, 2016, 787, 508-540.	3.4	11
9	Numerical simulation of turbulent flow in a channel containing a small slot. International Journal of Heat and Fluid Flow, 2016, 61, 343-354.	2.4	5
10	Using strip theory to model vibrations in offshore risers. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2016, 169, 126-139.	0.4	0
11	Single phase flow pressure drop and heat transfer in rectangular metallic microchannels. Applied Thermal Engineering, 2016, 93, 1324-1336.	6.0	74
12	Turbulent Kinetic Energy Production in the Vane of a Low-Pressure Linear Turbine Cascade with Incoming Wakes. International Journal of Rotating Machinery, 2015, 2015, 1-15.	0.8	10
13	Traveling Waves in Two-Dimensional Plane Poiseuille Flow. SIAM Journal on Applied Mathematics, 2015, 75, 2147-2169.	1.8	5
14	DNS of a Double Diffusive Instability. ERCOFTAC Series, 2015, , 219-224.	0.1	0
15	The Effect of wake Turbulence Intensity on Transition in a Compressor Cascade. Flow, Turbulence and Combustion, 2014, 93, 555-576.	2.6	17
16	Parameterization of travelling waves in plane Poiseuille flow. IMA Journal of Applied Mathematics, 2014, 79, 22-32.	1.6	2
17	Direct numerical simulation of turbulent scalar transport across a flat surface. Journal of Fluid Mechanics, 2014, 744, 217-249.	3.4	22
18	Low-diffusivity scalar transport using a WENO scheme and dual meshing. Journal of Computational Physics, 2013, 240, 158-173.	3.8	11

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19	Direct numerical simulation of heat transfer from the stagnation region of a heated cylinder affected by an impinging wake. Journal of Fluid Mechanics, 2011, 669, 64-89.	3.4	14
20	Heat transfer from the stagnation area of a heated cylinder at ReD=140,000 affected by free-stream turbulence. International Journal of Heat and Mass Transfer, 2011, 54, 2535-2541.	4.8	11
21	Direct numerical simulations of transition in a compressor cascade: the influence of free-stream turbulence. Journal of Fluid Mechanics, 2010, 665, 57-98.	3.4	118
22	Influence of the approach boundary layer on the flow over an axisymmetric hill at a moderate Reynolds number. Journal of Turbulence, 2010, 11, N8.	1.4	6
23	Direct Computations of Boundary Layers Distorted by Migrating Wakes in a Linear Compressor Cascade. Flow, Turbulence and Combustion, 2009, 83, 307-322.	2.6	41
24	DNS of heat transfer in transitional, accelerated boundary layer flow over a flat plate affected by free-stream fluctuations. International Journal of Heat and Fluid Flow, 2009, 30, 930-938.	2.4	6
25	The Influence of Periodically Incoming Wakes on the Separating Flow in a Compressor Cascade. , 2009, , 205-215.		0
26	Solidification and downstream meniscus prediction in the planar-flow spin casting process. Chemical Engineering Science, 2008, 63, 685-695.	3.8	8
27	Numerical study of the near wake of a circular cylinder. International Journal of Heat and Fluid Flow, 2008, 29, 1060-1070.	2.4	116
28	DNS of Heat Transfer from a Flat Plate Affected by Free-Stream Fluctuations. , 2008, , 293-302.		0
29	Large-Scale Computations of Flow Around a Circular Cylinder. , 2008, , 71-81.		7
30	DNS of laminar separation nubble flows with free-stream fluctuations. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 3010001-3010002.	0.2	0
31	Large eddy simulation of turbulent separated flow over a three-dimensional hill. , 2007, , 627-629.		4
32	Direct numerical simulation of flow and heat transfer in a turbine cascade with incoming wakes. Journal of Fluid Mechanics, 2006, 569, 209.	3.4	61
33	Separating, transitional flow affected by various inflow oscillation regimes. Applied Mathematical Modelling, 2006, 30, 1134-1142.	4.2	5
34	The influence of disturbances carried by periodically incoming wakes on the separating flow around a turbine blade. International Journal of Heat and Fluid Flow, 2006, 27, 721-729.	2.4	48
35	Direct Numerical Simulation of By-Pass and Separation-Induced Transition in a Linear Compressor Cascade. , 2006, , 1421.		13
36	Direct Numerical Simulations of Transitional Flow in Turbomachinery. Journal of Turbomachinery, 2006, 128, 668-678.	1.7	59

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37	DNS OF SEPARATION-INDUCED TRANSITION INFLUENCED BY FREE-STREAM FLUCTUATIONS. , 2006, , 389-394.		1
38	LES of background fluctuations interacting with periodically incoming wakes in a turbine cascade. , 2006, , 609-616.		1
39	Boundary Layer Separation Influenced by Free-Stream Disturbances. , 2005, , 157-167.		0
40	LES of Passive Heat Transfer in a Turbine Cascade. , 2005, , 201-212.		0
41	On unconditional conservation of kinetic energy by finite-difference discretizations of the linear and non-linear convection equation. Computers and Fluids, 2004, 33, 315-343.	2.5	17
42	Heat transfer in a laminar separation bubble affected by oscillating external flow. International Journal of Heat and Fluid Flow, 2004, 25, 729-740.	2.4	19
43	DNS of a Laminar Separation Bubble Affected by Free-Stream Disturbances. ERCOFTAC Series, 2004, , 213-220.	0.1	24
44	DNS of a Laminar Separation Bubble in the Presence of Oscillating External Flow. Flow, Turbulence and Combustion, 2003, 71, 311-331.	2.6	40
45	DNS of separating, low Reynolds number flow in a turbine cascade with incoming wakes. International Journal of Heat and Fluid Flow, 2003, 24, 626-635.	2.4	122
46	Direct numerical simulation, large eddy simulation and unsteady Reynolds-averaged Navierâ€"Stokes simulations of periodic unsteady flow in a low-pressure turbine cascade: A comparison. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2003, 217, 403-411.	1.4	39
47	Large-Eddy Simulation of Flow Around Low-Pressure Turbine Blade with Incoming Wakes. AIAA Journal, 2003, 41, 2143-2156.	2.6	124
48	LES of Flow in a Low Pressure Turbine with Incoming Wakes. , 2003, , 335-346.		1
49	The Effect of Impinging Wakes on the Boundary Layer of a Thin-Shaped Turbine Blade. , 2003, , 303-314.		0
50	DNS OF SEPARATING, LOW REYNOLDS NUMBER FLOW IN A TURBINE CASCADE WITH INCOMING WAKES. , 2002, , 731-740.		10
51	Title is missing!. Flow, Turbulence and Combustion, 2002, 69, 295-329.	2.6	100
52	Numerical Simulations of Buoyant Magnetic Flux Tubes. Astrophysical Journal, 2000, 536, 982-997.	4.5	24
53	DNS OF 2D TURBULENT FLOW AROUND A SQUARE CYLINDER. International Journal for Numerical Methods in Fluids, 1997, 25, 51-62.	1.6	11
54	DNS of Transitional Flow Around a Square Cylinder. Fluid Mechanics and Its Applications, 1995, , 569-573.	0.2	2

#	Article	IF	Citations
55	Direct numerical simulations of turbulent flow in a driven cavity. Future Generation Computer Systems, 1994, 10, 345-350.	7.5	7
56	Direct numerical simulation of driven cavity flows. Flow, Turbulence and Combustion, 1993, 51, 377-381.	0.2	9