

Rene van Hout

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,310
citations

331259

21
h-index

360668

35
g-index

52
all docs

52
docs citations

52
times ranked

949
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of the velocity field induced by a Taylor bubble rising in stagnant water. <i>International Journal of Multiphase Flow</i> , 2002, 28, 579-596.	1.6	100
2	Evolution of statistical parameters of gas-liquid slug flow along vertical pipes. <i>International Journal of Multiphase Flow</i> , 2001, 27, 1579-1602.	1.6	92
3	Translational velocities of elongated bubbles in continuous slug flow. <i>International Journal of Multiphase Flow</i> , 2002, 28, 1333-1350.	1.6	83
4	A comparative quadrant analysis of turbulence in a plant canopy. <i>Water Resources Research</i> , 2007, 43, .	1.7	72
5	Spatial distribution of void fraction within a liquid slug and some other related slug parameters. <i>International Journal of Multiphase Flow</i> , 1992, 18, 831-845.	1.6	67
6	Large-eddy simulation of plant canopy flows using plant-scale representation. <i>Boundary-Layer Meteorology</i> , 2007, 124, 183-203.	1.2	67
7	Evolution of hydrodynamic and statistical parameters of gas-liquid slug flow along inclined pipes. <i>Chemical Engineering Science</i> , 2003, 58, 115-133.	1.9	58
8	Measurements of pollen grain dispersal in still air and stationary, near homogeneous, isotropic turbulence. <i>Journal of Aerosol Science</i> , 2011, 42, 867-882.	1.8	42
9	Spatially and temporally resolved measurements of bead resuspension and saltation in a turbulent water channel flow. <i>Journal of Fluid Mechanics</i> , 2013, 715, 389-423.	1.4	42
10	PIV Measurements in the Atmospheric Boundary Layer within and above a Mature Corn Canopy. Part II: Quadrant-Hole Analysis. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 2825-2838.	0.6	39
11	A method for measuring the density of irregularly shaped biological aerosols such as pollen. <i>Journal of Aerosol Science</i> , 2004, 35, 1369-1384.	1.8	37
12	Experimental study of a round jet impinging on a flat surface: Flow field and vortex characteristics in the wall jet. <i>International Journal of Heat and Fluid Flow</i> , 2018, 70, 41-58.	1.1	36
13	Time resolved measurements of vortex-induced vibrations of a tethered sphere in uniform flow. <i>Physics of Fluids</i> , 2010, 22, .	1.6	34
14	PIV Measurements in the Atmospheric Boundary Layer within and above a Mature Corn Canopy. Part I: Statistics and Energy Flux. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 2805-2824.	0.6	33
15	The influence of local meteorological conditions on the circadian rhythm of corn (<i>Zea mays</i> L.) pollen emission. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1078-1092.	1.9	33
16	A comparison of PIV measurements of canopy turbulence performed in the field and in a wind tunnel model. <i>Experiments in Fluids</i> , 2006, 41, 309-318.	1.1	31
17	Time-resolved PIV measurements of the interaction of polystyrene beads with near-wall-coherent structures in a turbulent channel flow. <i>International Journal of Multiphase Flow</i> , 2011, 37, 346-357.	1.6	29
18	Temporally resolved measurements of heavy, rigid fibre translation and rotation in nearly homogeneous isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 814, 42-68.	1.4	28

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19	On the flow structure and turbulence during sweep and ejection events in a wind-tunnel model canopy. <i>Boundary-Layer Meteorology</i> , 2007, 124, 205-233.	1.2	27
20	Measurement of vortex shedding in the wake of a sphere at. <i>Journal of Fluid Mechanics</i> , 2019, 870, 290-315.	1.4	25
21	Concentration profiles of particles settling in the neutral and stratified atmospheric boundary layer. <i>Boundary-Layer Meteorology</i> , 2007, 125, 25-38.	1.2	22
22	Experimental study of the flow in the wake of a stationary sphere immersed in a turbulent boundary layer. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	22
23	The use of high-speed PIV and holographic cinematography in the study of fiber suspension flows. <i>Acta Mechanica</i> , 2013, 224, 2263-2280.	1.1	17
24	Heat transfer and flow field measurements of a pulsating round jet impinging on a flat heated surface. <i>International Journal of Heat and Fluid Flow</i> , 2019, 77, 278-287.	1.1	16
25	Time resolved measurements of vortex-induced vibrations of a positively buoyant tethered sphere in uniform water flow. <i>Journal of Fluids and Structures</i> , 2012, 35, 185-199.	1.5	15
26	Coaxial Circular Jetsâ€™A Review. <i>Fluids</i> , 2021, 6, 147.	0.8	15
27	Thermal performance of sculptured tiles for building envelopes. <i>Building and Environment</i> , 2021, 197, 107809.	3.0	15
28	Measurement of pollen clump release and breakup in the vicinity of ragweed (<i>A. confertiflora</i>) staminate flowers. <i>Ecosphere</i> , 2012, 3, 1-24.	1.0	14
29	Measurement of polystyrene beads suspended in a turbulent square channel flow: Spatial distributions of velocity and number density. <i>International Journal of Multiphase Flow</i> , 2014, 62, 110-122.	1.6	14
30	Flow field characteristics of a confined, underexpanded transient round jet. <i>Physics of Fluids</i> , 2021, 33, 085104.	1.6	14
31	Measurements of mean flow and turbulence characteristics in high-Reynolds number counter-rotating Taylor-Couette flow. <i>Physics of Fluids</i> , 2011, 23, .	1.6	13
32	Vortex dynamics and associated fluid forcing in the near wake of a light and heavy tethered sphere in uniform flow. <i>Experiments in Fluids</i> , 2013, 54, 1.	1.1	13
33	The effect of jet pulsation on the flow field of a round impinging jet and the radially expanding wall jet. <i>International Journal of Heat and Mass Transfer</i> , 2019, 140, 606-619.	2.5	13
34	Tomo-PIV measurements in the wake of a tethered sphere undergoing VIV. <i>Journal of Fluids and Structures</i> , 2019, 89, 132-141.	1.5	13
35	Inertial effects on the dynamics of rigid heavy fibers in isotropic turbulence. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	13
36	Time-resolved particle image velocimetry measurements of vortex and shear layer dynamics in the near wake of a tethered sphere. <i>Physics of Fluids</i> , 2013, 25, .	1.6	12

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37	Voronoi analysis of beads suspended in a turbulent square channel flow. <i>International Journal of Multiphase Flow</i> , 2015, 68, 10-13.	1.6	11
38	Axisymmetric jet impingement on a dimpled surface: Effect of impingement location on flow field characteristics. <i>International Journal of Heat and Fluid Flow</i> , 2018, 74, 53-64.	1.1	11
39	Outer shear layer characteristics of a radially expanding wall jet on smooth and dimpled surfaces. <i>International Journal of Heat and Fluid Flow</i> , 2018, 72, 304-316.	1.1	11
40	Flow measurements in the near wake of a smooth sphere and one mimicking a pine cone. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
41	Measurements of length effects on the dynamics of rigid fibers in a turbulent channel flow. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	10
42	Acoustic Control of Vortex-Induced Vibrations of a Tethered Sphere. <i>AIAA Journal</i> , 2013, 51, 754-757.	1.5	9
43	Effect of impinging jet pulsation on primary and secondary vortex characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119445.	2.5	9
44	Combined three-dimensional flow field measurements and motion tracking of freely moving spheres in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	1.4	9
45	A transient model for optimizing a hybrid nocturnal sky radiation cooling system. <i>Renewable Energy</i> , 2019, 132, 370-380.	4.3	6
46	Measurements of the flow in the near wake of a rough, semi permeable prolate spheroid at intermediate Reynolds numbers. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 57, 159-175.	1.2	4
47	Three-dimensional flow field measurements in the wake of a tethered sphere crossing the onset of vortex induced vibrations. <i>Journal of Fluid Mechanics</i> , 2022, 943, .	1.4	4
48	Unsteady flow phenomena: implications on the design of experimental facilities. <i>International Journal of Multiphase Flow</i> , 2002, 28, 1581-1588.	1.6	0
49	Using Holography and Particle Image Velocimetry to Study Particle Deposition, Re-suspension and Agglomeration. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2017, , 37-96.	0.3	0
50	10.1063/5.0056343.1. , 2021, , .		0
51	Experimental Investigation of the Interaction Between a Stationary Rigid Sphere and a Turbulent Boundary Layer. , 2018, , 67-81.		0