

Cees W M Van Der Geld

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,102
citations

361413

20
h-index

434195

31
g-index

57
all docs

57
docs citations

57
times ranked

913
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulence modification and heat transfer enhancement by inertial particles in turbulent channel flow. <i>Physics of Fluids</i> , 2011, 23, .	4.0	80
2	Mass flow rate measurements in gas-liquid flows by means of a venturi or orifice plate coupled to a void fraction sensor. <i>Experimental Thermal and Fluid Science</i> , 2009, 33, 253-260.	2.7	76
3	Particle image velocimetry measurements of a steam-driven confined turbulent water jet. <i>Journal of Fluid Mechanics</i> , 2005, 530, 353-368.	3.4	48
4	Some controversies in endovenous laser ablation of varicose veins addressed by optical-thermal mathematical modeling. <i>Lasers in Medical Science</i> , 2014, 29, 441-452.	2.1	48
5	The Influence of a Metal Stent on the Distribution of Thermal Energy during Irreversible Electroporation. <i>PLoS ONE</i> , 2016, 11, e0148457.	2.5	43
6	Mathematical modeling of the thermal effects of irreversible electroporation for <i>in vitro</i> , <i>in vivo</i> , and clinical use: a systematic review. <i>International Journal of Hyperthermia</i> , 2020, 37, 486-505.	2.5	42
7	Water droplet condensation and evaporation in turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2014, 749, 666-700.	3.4	41
8	The heat-pipe resembling action of boiling bubbles in endovenous laser ablation. <i>Lasers in Medical Science</i> , 2010, 25, 907-909.	2.1	40
9	Experimental Study of Heat Transfer and Pressure Drop Characteristics of Air/Water and Air-Steam/Water Heat Exchange in a Polymer Compact Heat Exchanger. <i>Heat Transfer Engineering</i> , 2005, 26, 18-27.	1.9	38
10	Numerical simulation of the drying of inkjet-printed droplets. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 388-395.	9.4	37
11	Irreversible electroporation: Just another form of thermal therapy?. <i>Prostate</i> , 2015, 75, 332-335.	2.3	34
12	Surface property effects on dropwise condensation heat transfer from flowing air-steam mixtures to promote drainage. <i>International Journal of Thermal Sciences</i> , 2012, 54, 220-229.	4.9	31
13	Dropwise condensation from flowing air-steam mixtures: Diffusion resistance assessed by controlled drainage. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4507-4517.	4.8	29
14	Optical-thermal mathematical model for endovenous laser ablation of varicose veins. <i>Lasers in Medical Science</i> , 2014, 29, 431-439.	2.1	28
15	Determination of the coefficients of Langevin models for inhomogeneous turbulent flows by three-dimensional particle tracking velocimetry and direct numerical simulation. <i>Physics of Fluids</i> , 2007, 19, 045102.	4.0	27
16	On the motion of a spherical bubble deforming near a plane wall. <i>Journal of Engineering Mathematics</i> , 2002, 42, 91-118.	1.2	25
17	Rewetting and boiling in jet impingement on high temperature steel surface. <i>Physics of Fluids</i> , 2018, 30, .	4.0	23
18	Quench cooling of fast moving steel plates by water jet impingement. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120545.	4.8	22

#	ARTICLE	IF	CITATIONS
19	Temperatures and the condensate heat resistance in dropwise condensation of multicomponent mixtures with inert gases. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 3233-3243.	4.8	21
20	Extension of local front reconstruction method with controlled coalescence model. <i>Physics of Fluids</i> , 2018, 30, .	4.0	21
21	The dynamics of a boiling bubble before and after detachment. <i>Heat and Mass Transfer</i> , 2009, 45, 831-846.	2.1	20
22	Heat transfer mechanisms of a vapour bubble growing at a wall in saturated upward flow. <i>Journal of Fluid Mechanics</i> , 2015, 771, 264-302.	3.4	20
23	Modeling of droplet impact on a heated solid surface with a diffuse interface model. <i>International Journal of Multiphase Flow</i> , 2020, 123, 103173.	3.4	20
24	A critical comparison of smooth and sharp interface methods for phase transition. <i>International Journal of Multiphase Flow</i> , 2019, 120, 103093.	3.4	19
25	Temperature fields induced by direct contact condensation of steam in a cross-flow in a channel. <i>Heat and Mass Transfer</i> , 2011, 47, 981-990.	2.1	18
26	Non-isothermal two-phase flow with a diffuse-interface model. <i>International Journal of Multiphase Flow</i> , 2011, 37, 149-165.	3.4	18
27	Lagrangian velocity and acceleration statistics of fluid and inertial particles measured in pipe flow with 3D particle tracking velocimetry. <i>International Journal of Multiphase Flow</i> , 2015, 73, 97-107.	3.4	18
28	Experimental condensation study of vertical superhydrophobic surfaces assisted by hydrophilic constructal-like patterns. <i>International Journal of Thermal Sciences</i> , 2019, 135, 319-330.	4.9	18
29	Axisymmetric dynamics of a bubble near a plane wall. <i>Journal of Fluid Mechanics</i> , 2009, 640, 265-303.	3.4	15
30	A diffuse-interface approach to two-phase isothermal flow of a Van der Waals fluid near the critical point. <i>International Journal of Multiphase Flow</i> , 2010, 36, 558-569.	3.4	14
31	Lagrangian and Eulerian Statistics of Pipe Flows Measured with 3D-PTV at Moderate and High Reynolds Numbers. <i>Flow, Turbulence and Combustion</i> , 2013, 91, 105-137.	2.6	14
32	Concentration and velocity statistics of inertial particles in upward and downward pipe flow. <i>Journal of Fluid Mechanics</i> , 2017, 822, 640-663.	3.4	14
33	The mean condensate heat resistance of dropwise condensation with flowing, inert gases. <i>Heat and Mass Transfer</i> , 1995, 30, 435-445.	2.1	13
34	Experiments on the effect of acceleration on the drag of tapwater bubbles. <i>Experiments in Fluids</i> , 2001, 31, 708-722.	2.4	12
35	Forces on a boiling bubble in a developing boundary layer, in microgravity with g -jitter and in terrestrial conditions. <i>Physics of Fluids</i> , 2012, 24, .	4.0	12
36	Film boiling in quench cooling with high-temperature jets. <i>International Journal of Heat and Mass Transfer</i> , 2021, 164, 120578.	4.8	12

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37	Experimental Determination of Lagrangian Velocity Statistics in Turbulent Pipe Flow. Flow, Turbulence and Combustion, 2006, 76, 163-175.	2.6	11
38	Simulations of droplet collisions with a Diffuse Interface Model near the critical point. International Journal of Multiphase Flow, 2018, 107, 208-220.	3.4	11
39	Measurement and prediction of solid sphere trajectories in accelerated gas flow. International Journal of Multiphase Flow, 1997, 23, 357-376.	3.4	10
40	The nature of boiling during rewetting of surfaces at temperatures exceeding the thermodynamic limit for water superheat. Journal of Fluid Mechanics, 2020, 895, .	3.4	9
41	Effects of contact angle on condensate topology, drainage and efficiency of a condenser with minichannels. Experimental Thermal and Fluid Science, 2007, 31, 1033-1042.	2.7	8
42	On the prediction of condenser plate temperatures in a cross-flow condenser. Experimental Thermal and Fluid Science, 2002, 26, 139-145.	2.7	7
43	Flow statistics in plate and shell heat exchangers measured with PTV. International Journal of Heat and Fluid Flow, 2019, 79, 108461.	2.4	7
44	The effect of the angle of inclination of a condenser on the gas-to-plate heat resistance in dropwise condensation. Experimental Thermal and Fluid Science, 2004, 28, 237-241.	2.7	5
45	Inaccuracies in the inverse heat conduction problem solution and their effect on the estimation of heat fluxes during quenching. International Journal of Heat and Mass Transfer, 2022, 194, 122953.	4.8	5
46	Comparison of the local front reconstruction method with a diffuse interface model for the modeling of droplet collisions. Chemical Engineering Science: X, 2020, 7, 100066.	1.5	4
47	Experimental investigation of the thermal interactions of nucleation sites in flow boiling. International Journal of Heat and Mass Transfer, 2014, 78, 1208-1218.	4.8	3
48	Forces on rapidly growing vapor bubbles on a wall in forced convection with varying angle of inclination. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 505, 29-36.	4.7	3
49	SHAPE OSCILLATIONS OF A BOILING BUBBLE. Multiphase Science and Technology, 2010, 22, 157-175.	0.5	3
50	Why does second trimester demise of a monochorionic twin not result in acardiac twinning?. Birth Defects Research, 2021, 113, 1103-1111.	1.5	2
51	A numerical study of flow boiling in a microchannel using the local front reconstruction method. AIChE Journal, 2022, 68, .	3.6	2
52	A New Spectral-like Method to Model Surface Tension Driven Convection Near a Deforming Interface. International Journal of Computational Fluid Dynamics, 1999, 13, 1-24.	1.2	1