

Arjan J H Frijns

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38 papers	818 citations	14 h-index	28 g-index
45 ext. papers	972 ext. citations	3.5 avg, IF	4.08 L-index

#	Paper	IF	Citations
38	Experimental and Numerical Validation of the One-Process Modeling Approach for the Hydration of K ₂ CO ₃ Particles. <i>Processes</i> , 2022 , 10, 547	2.9	0
37	Modeling rarefied gas-solid surface interactions for Couette flow with different wall temperatures using an unsupervised machine learning technique. <i>Physical Review E</i> , 2021 , 104, 015309	2.4	3
36	The Influence of Gas-Wall and Gas-Gas Interactions on the Accommodation Coefficients for Rarefied Gases: A Molecular Dynamics Study. <i>Micromachines</i> , 2020 , 11,	3.3	4
35	Evaluating assumptions of scales for subjective assessment of thermal environments [Do laypersons perceive them the way, we researchers believe?]. <i>Energy and Buildings</i> , 2020 , 211, 109761	7	34
34	Effect of local skin blood flow during light and medium activities on local skin temperature predictions. <i>Journal of Thermal Biology</i> , 2019 , 84, 439-450	2.9	3
33	The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. <i>Scientific Data</i> , 2019 , 6, 289	8.2	12
32	A Fluorescent Micro-Optofluidic Sensor for In-Line Ion Selective Electrolyte Monitoring. <i>IEEE Sensors Journal</i> , 2018 , 18, 3946-3951	4	3
31	Local clothing thermal properties of typical office ensembles under realistic static and dynamic conditions. <i>International Journal of Biometeorology</i> , 2018 , 62, 2215-2229	3.7	13
30	The impact of morning light intensity and environmental temperature on body temperatures and alertness. <i>Physiology and Behavior</i> , 2017 , 175, 72-81	3.5	25
29	Local thermal sensation modeling-a review on the necessity and availability of local clothing properties and local metabolic heat production. <i>Indoor Air</i> , 2017 , 27, 261-272	5.4	15
28	A Spectroscopic Technique for Local Temperature Measurement in a Micro-Optofluidic System. <i>IEEE Sensors Journal</i> , 2016 , 16, 5232-5235	4	3
27	An integrated flex-microfluidic-Si chip device towards sweat sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2016 , 227, 427-437	8.5	28
26	On-line monitoring of electrolytes in hemodialysis: on the road towards individualizing treatment. <i>Expert Review of Medical Devices</i> , 2016 , 13, 933-943	3.5	24
25	Particle focusing by AC electroosmosis with additional axial flow. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 1115-1129	2.8	11
24	A microfluidic device based on an evaporation-driven micropump. <i>Biomedical Microdevices</i> , 2015 , 17, 47	3.7	22
23	Molecular simulation of water vapor outgassing from silica nanopores. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 565-576	2.8	6
22	Effects of sweating on distal skin temperature prediction during walking. <i>Extreme Physiology and Medicine</i> , 2015 , 4,		78

21	Application of astigmatism EPTV to analyze the vortex structure of AC electroosmotic flows. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 553-569	2.8	9
20	Validated numerical analysis of vortical structures in 3D AC electro-osmotic flows. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 1019	2.8	4
19	Development of EEM based silicon-water and silica-water wall potentials for non-reactive molecular dynamics simulations. <i>Journal of Computational Physics</i> , 2014 , 268, 51-62	4.1	2
18	Local wettability tuning with laser ablation redeposits on PDMS. <i>Applied Surface Science</i> , 2014 , 303, 456-464	4.4	16
17	Beyond the classic thermoneutral zone: Including thermal comfort. <i>Temperature</i> , 2014 , 1, 142-9	5.2	101
16	Geometry effects on rarefied nanochannel flows. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 661-673	2.8	7
15	Mathematical modeling of thermal and circulatory effects during hemodialysis. <i>Artificial Organs</i> , 2012 , 36, 797-811	2.6	7
14	Mathematical Modeling of Human Thermoregulation: A Neurophysiological Approach to Vasoconstriction. <i>Studies in Computational Intelligence</i> , 2012 , 307-316	0.8	3
13	Experimental and numerical investigation of nanofluid forced convection inside a wide microchannel heat sink. <i>Applied Thermal Engineering</i> , 2012 , 36, 260-268	5.8	196
12	Reversionary rotation of actuated particles for microfluidic near-surface mixing. <i>Applied Physics Letters</i> , 2011 , 99, 024103	3.4	1
11	Physiological modeling for technical, clinical and research applications. <i>Frontiers in Bioscience - Scholar</i> , 2010 , 2, 939-68	2.4	52
10	Measurement of model coefficients of skin sympathetic vasoconstriction. <i>Physiological Measurement</i> , 2010 , 31, 77-93	2.9	9
9	Temperature and surgical wound heat loss during orthopedic surgery: computer simulations and measurements. <i>Canadian Journal of Anaesthesia</i> , 2010 , 57, 381-2	3	2
8	Self-organized twinning of actuated particles for microfluidic pumping. <i>Applied Physics Letters</i> , 2008 , 92, 024104	3.4	8
7	Validation of an individualised model of human thermoregulation for predicting responses to cold air. <i>International Journal of Biometeorology</i> , 2007 , 51, 169-79	3.7	37
6	Effect of forced-air heaters on perfusion and temperature distribution during and after open-heart surgery. <i>European Journal of Cardio-thoracic Surgery</i> , 2007 , 32, 888-95	3	10
5	Density distribution for a dense hard-sphere gas in micro/nano-channels: Analytical and simulation results. <i>Journal of Computational Physics</i> , 2006 , 219, 532-552	4.1	8
4	Measurements of Deformations and Electrical Potentials in a Charged Porous Medium 2005 , 133-139		1

3	Effect of individual characteristics on a mathematical model of human thermoregulation. <i>Journal of Thermal Biology</i> , 2004 , 29, 577-581	2.9	28
2	Squeezing a Sponge: A Three-Dimensional Solution in Poroelasticity. <i>Computational Geosciences</i> , 2003 , 7, 49-59	2.7	12
1	Mixed finite element modelling of cartilaginous tissues. <i>Mathematics and Computers in Simulation</i> , 2003 , 61, 549-560	3.3	21