Lasse Makkonen

List of Publications by Year
in descending order

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63	2,915	186265	168389
papers	citations	28 h-index	53 g-index

64	64	64	1969
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Models for the growth of rime, glaze, icicles and wet snow on structures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2000, 358, 2913-2939.	3.4	247
2	Ice Adhesion â€"Theory, Measurements and Countermeasures. Journal of Adhesion Science and Technology, 2012, 26, 413-445.	2.6	172
3	The role of friction in the measurement of slipperiness, Part 1: Friction mechanisms and definition of test conditions. Ergonomics, 2001, 44, 1217-1232.	2.1	159
4	Modeling of Ice Accretion on Wires. Journal of Climate and Applied Meteorology, 1984, 23, 929-939.	1.0	158
5	Plotting Positions in Extreme Value Analysis. Journal of Applied Meteorology and Climatology, 2006, 45, 334-340.	1.5	143
6	Modelling and Prevention of Ice Accretion on Wind Turbines. Wind Engineering, 2001, 25, 3-21.	1.9	139
7	The role of friction in the measurement of slipperiness, Part 2: Survey of friction measurement devices. Ergonomics, 2001, 44, 1233-1261.	2.1	136
8	Modeling power line icing in freezing precipitation. Atmospheric Research, 1998, 46, 131-142.	4.1	123
9	Superhydrophilic Polyelectrolyte Brush Layers with Imparted Anti-Icing Properties: Effect of Counter ions. ACS Applied Materials & Interfaces, 2014, 6, 6487-6496.	8.0	115
10	Towards modelling of decay risk of wooden materials. European Journal of Wood and Wood Products, 2010, 68, 303-313.	2.9	95
11	Surface Melting of Ice. Journal of Physical Chemistry B, 1997, 101, 6196-6200.	2.6	87
12	Heat transfer and icing of a rough cylinder. Cold Regions Science and Technology, 1985, 10, 105-116.	3.5	76
13	Youngâ€™s equation revisited. Journal of Physics Condensed Matter, 2016, 28, 135001.	1.8	74
14	Problems in the extreme value analysis. Structural Safety, 2008, 30, 405-419.	5.3	68
15	Modeling the friction of ice. Cold Regions Science and Technology, 2014, 102, 84-93.	3.5	67
16	Salinity and growth rate of ice formed by sea spray. Cold Regions Science and Technology, 1987, 14, 163-171.	3.5	61
17	Bringing Closure to the Plotting Position Controversy. Communications in Statistics - Theory and Methods, 2008, 37, 460-467.	1.0	58
18	On the Median Volume Diameter Approximation for Droplet Collision Efficiency. Journals of the Atmospheric Sciences, 1988, 45, 4008-4012.	1.7	57

#	Article	IF	Citations
19	Estimation of wet snow accretion on structures. Cold Regions Science and Technology, 1989, 17, 83-88.	3.5	56
20	A thermodynamic model of contact angle hysteresis. Journal of Chemical Physics, 2017, 147, 064703.	3.0	54
21	Simulating wet snow loads on power line cables by a simple model. Cold Regions Science and Technology, 2010, 61, 73-81.	3.5	49
22	Prediction of In-Cloud Icing Conditions at Ground Level Using the WRF Model. Journal of Applied Meteorology and Climatology, 2011, 50, 2445-2459.	1.5	47
23	Incompatibility of the Shuttleworth equation with Hermannâ€™s mathematical structure of thermodynamics. Surface Science, 2009, 603, 97-101.	1.9	40
24	On the Methods To Determine Surface Energies. Langmuir, 2000, 16, 7669-7672.	3.5	36
25	Analysis of Rotating Multicylinder Data in Measuring Cloud-Droplet Size and Liquid Water Content. Journal of Atmospheric and Oceanic Technology, 1992, 9, 258-263.	1.3	34
26	Anemometry in Icing Conditions. Journal of Atmospheric and Oceanic Technology, 2001, 18, 1457-1469.	1.3	34
27	Ice Loads on a Lattice Tower Estimated by Weather Station Data. Journal of Applied Meteorology and Climatology, 1998, 37, 523-529.	1.7	31
28	A thermodynamic model of sliding friction. AIP Advances, 2012, 2, 012179.	1.3	31
29	Climatic mapping of ice loads based on airport weather observations. Atmospheric Research, 1995, 36, 185-193.	4.1	29
30	Experiments on the Cloud Droplet Collision Efficiency of Cylinders. Journal of Climate and Applied Meteorology, 1987, 26, 1406-1411.	1.0	28
31	Humidity Measurements in Cold and Humid Environments. Boundary-Layer Meteorology, 2005, 116, 131-147.	2.3	26
32	The relationship between chord length and rime icing on wind turbines. Wind Energy, 2010, 13, 627-632.	4.2	24
33	Size effect in fatigue based on the extreme value distribution of defects. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 594, 68-71.	5.6	22
34	Spacing of icicles. Cold Regions Science and Technology, 1993, 21, 317-322.	3.5	21
35	Spacing in solidification of dendritic arrays. Journal of Crystal Growth, 2000, 208, 772-778.	1.5	19
36	Modelling the growth of large rime ice accretions. Cold Regions Science and Technology, 2018, 151, 133-137.	3.5	18

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37	Misinterpretation of the Shuttleworth equation. Scripta Materialia, 2012, 66, 627-629.	5.2	17
38	Another look at the interfacial interaction parameter. Journal of Colloid and Interface Science, 2018, 529, 243-246.	9.4	16
39	An improved method of extreme value analysis. Journal of Hydrology X, 2019, 2, 100012.	1.6	16
40	The Gibbsâ˜Thomson Equation and the Solidâ˜Liquid Interface. Langmuir, 2002, 18, 1445-1448.	3.5	15
41	Turbine Size and Temperature Dependence of Icing on Wind Turbine Blades. Wind Engineering, 2010, 34, 615-627.	1.9	15
42	Closure to â€œProblems in the extreme value analysisâ€•(Struct. Safety 2008:30:405â€“419). Structural Safety, 2013, 40, 65-67.	5.3	15
43	Determining ice loads for tower structure design. Engineering Structures, 2014, 74, 229-232.	5.3	15
44	A 2D numerical study on the effect of conductor shape on icing collision efficiency. Cold Regions Science and Technology, 2017, 143, 52-58.	3.5	15
45	Small-scale experiments on rime icing. Cold Regions Science and Technology, 1997, 25, 173-182.	3.5	13
46	A model of hoarfrost formation on a cable. Cold Regions Science and Technology, 2013, 85, 256-260.	3.5	13
47	Defining Sample Quantiles by the True Rank Probability. Journal of Probability and Statistics, 2014, 2014, 1-6.	0.7	13
48	Reply to: â€œComment by H. Ibach on: Incompatibility of the Shuttleworth equation with Hermannâ€™s mathematical structure of thermodynamicsâ€•[Surf. Sci. 603 (2009) 97]. Surface Science, 2009, 603, 2356-2357.	1.9	12
49	Discussion on â€œPlotting positions for fitting distributions and extreme value analysisâ€• Canadian Journal of Civil Engineering, 2013, 40, 927-929.	1.3	12
50	Modelling frazil and anchor ice on submerged objects. Cold Regions Science and Technology, 2018, 151, 64-74.	3.5	12
51	Comments on â€œA Method for Rescaling Humidity Sensors at Temperatures Well below Freezingâ€• Journal of Atmospheric and Oceanic Technology, 1996, 13, 911-912.	1.3	11
52	Application of a new friction theory to ice and snow. Annals of Glaciology, 1994, 19, 155-157.	1.4	10
53	Comments on â€œPrediction of Vessel Icing for Near-Freezing Sea Temperaturesâ€• Weather and Forecasting, 1991, 6, 565-567.	1.4	9
54	Reply to: â€œComment by J.E. Eriksson and A.I. Rusanov on: Incompatibility of the Shuttleworth equation with Hermannâ€™s mathematical structure of thermodynamicsâ€•[Surf. Sci. 603 (2009) 97]. Surface Science, 2009, 603, 2350-2351.	1.9	9

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55	Misconceptions of the Relation between Surface Energy and Surface Tension on a Solid. Langmuir, 2014, 30, 2580-2581.	3.5	8
56	A novel water droplet size parameter for calculation of icing on power lines. Cold Regions Science and Technology, 2018, 149, 65-70.	3.5	7
57	A Model of Icicle Growth. Journal of Glaciology, 1988, 34, 64-70.	2.2	7
58	Reply to: â€œAdditional remarks related with the discussion inaugurated by the article â€˜Incompatibility of the Shuttleworth equation with Hermann's mathematical structure of thermodynamicsâ€™ by D. J. Bottomley et al. [Surf. Sci. 603 (2009) 97]â€• Surface Science, 2010, 604, 2066-2068.	1.9	6
59	Climate change projections for variables affecting road networks in Europe. Transportation Planning and Technology, 2014, 37, 678-694.	2.0	4
60	Probabilistic evaluation of quantile estimators. Communications in Statistics - Theory and Methods, 2021, 50, 3319-3337.	1.0	3
61	Simple thermodynamic derivation of the electrocapillary equations. Surface Science, 2015, 635, 61-63.	1.9	2
62	Friction in sliding heavy objects on ice. Journal of Glaciology, 2016, 62, 1186-1186.	2.2	1
63	Comment on "Simple thermodynamic derivation of the electrocapillary equations" by E.M. Gutman [Surf. Sci. 639 (2015) L5â€“L8]. Surface Science, 2016, 647, 108-109.	1.9	0