

Keld R Rasmussen

List of Publications by Year in descending order

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42
papers

1,737
citations

218677

26
h-index

276875

41
g-index

42
all docs

42
docs citations

42
times ranked

1374
citing authors

#	ARTICLE	IF	CITATIONS
1	Saltating particles in a turbulent boundary layer: experiment and theory. <i>Journal of Fluid Mechanics</i> , 2009, 625, 47-74.	3.4	175
2	The effect of wind speed and bed slope on sand transport. <i>Sedimentology</i> , 1999, 46, 723-731.	3.1	161
3	The effect of surface slope on saltation threshold. <i>Sedimentology</i> , 1994, 41, 721-728.	3.1	117
4	Vertical variation of particle speed and flux density in aeolian saltation: Measurement and modeling. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	87
5	Determination of the wind induced detachment threshold for granular material on Mars using wind tunnel simulations. <i>Icarus</i> , 2007, 191, 568-580.	2.5	78
6	On the efficiency of vertical array aeolian field traps. <i>Sedimentology</i> , 1998, 45, 789-800.	3.1	73
7	Saltation and wind-flow interaction in a variable slope wind tunnel. <i>Geomorphology</i> , 1996, 17, 19-28.	2.6	65
8	Quantification and regionalization of groundwater-surface water interaction along an alluvial stream. <i>Journal of Hydrology</i> , 2006, 320, 342-358.	5.4	62
9	Applications of spaceborne radar laboratory data to the study of aeolian processes. <i>Journal of Geophysical Research</i> , 1997, 102, 10971-10983.	3.3	57
10	Laboratory studies of aeolian sediment transport processes on planetary surfaces. <i>Geomorphology</i> , 2015, 244, 74-94.	2.6	57
11	Flow Depletion in a Small Stream Caused by Ground Water Abstraction from Wells. <i>Ground Water</i> , 2002, 40, 425-437.	1.3	55
12	An environmental simulation wind tunnel for studying Aeolian transport on mars. <i>Planetary and Space Science</i> , 2008, 56, 426-437.	1.7	54
13	The physics of Aeolian sand transport. <i>Comptes Rendus Physique</i> , 2015, 16, 105-117.	0.9	52
14	Effects of iron compounds on macroinvertebrate communities in a Danish lowland river system. <i>Water Research</i> , 1988, 22, 1101-1108.	11.3	45
15	Enhancement in wind-driven sand transport by electric fields. <i>Planetary and Space Science</i> , 2009, 57, 804-808.	1.7	45
16	Aeolian mass transport near the saltation threshold. <i>Earth Surface Processes and Landforms</i> , 1999, 24, 413-422.	2.5	44
17	Bursts in discontinuous Aeolian saltation. <i>Scientific Reports</i> , 2015, 5, 11109.	3.3	42
18	Evaluating the salinity distribution of a shallow coastal aquifer by vertical multielectrode profiling (Denmark). <i>Hydrogeology Journal</i> , 2010, 18, 161-171.	2.1	41

#	ARTICLE	IF	CITATIONS
19	Groundwater recharge and evapotranspiration for two natural ecosystems covered with oak and heather. <i>Journal of Hydrology</i> , 2005, 300, 76-99.	5.4	40
20	Barchan dune mobility in Mauritania related to dune and interdune sand fluxes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	38
21	An Environmental Wind Tunnel Facility for Testing Meteorological Sensor Systems. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 447-457.	1.3	35
22	On the Estimation of Stream Flow Depletion Parameters by Drawdown Analysis. <i>Ground Water</i> , 2000, 38, 726-734.	1.3	33
23	Estimation of stream flow depletion and uncertainty from discharge measurements in a small alluvial stream. <i>Journal of Hydrology</i> , 2003, 274, 129-144.	5.4	33
24	Saltation threshold for pyroclasts at various bed slopes: Wind tunnel measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 278-279, 14-24.	2.1	33
25	Prediction of Regional Ground Water Flow to Streams. <i>Ground Water</i> , 1998, 36, 351-360.	1.3	29
26	A lower-than-expected saltation threshold at Martian pressure and below. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	29
27	The effect of a roughness element on local saltation transport. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1990, 36, 845-854.	3.9	27
28	A miniature laser anemometer for measurement of wind speed and dust suspension on Mars. <i>Planetary and Space Science</i> , 2004, 52, 1177-1186.	1.7	17
29	Atmospheric ammonia exchange on a heathland in Denmark. <i>Atmospheric Environment</i> , 1998, 32, 461-464.	4.1	15
30	A direct comparison of EMI data and borehole data on a 1000 ha data set. <i>Geoderma</i> , 2017, 303, 188-195.	5.1	14
31	Potential Transport of Windblown Sand: Influence of Surface Roughness and Assessment with Radar Data. , 1995, , 75-99.		14
32	Hydrological Model for the Tude Æ... Catchment. <i>Hydrology Research</i> , 1994, 25, 145-166.	2.7	13
33	Estimating groundwater discharge to a lowland alluvial stream using methods at point-, reach-, and catchment-scale. <i>Journal of Hydrology</i> , 2018, 564, 836-845.	5.4	12
34	Capture of magnetic dust in a simulated Martian aerosol: the importance of aerodynamics. <i>Planetary and Space Science</i> , 2002, 50, 371-374.	1.7	11
35	Optimal design of pumping tests in leaky aquifers for stream depletion analysis. <i>Journal of Hydrology</i> , 2009, 375, 554-565.	5.4	9
36	On the use of analytical solutions to design pumping tests in leaky aquifers connected to a stream. <i>Journal of Hydrology</i> , 2010, 381, 341-351.	5.4	8

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37	Effects of a heather beetle attack on soil moisture and water balance at a Danish heathland. <i>Plant and Soil</i> , 2001, 229, 147-158.	3.7	6
38	Some Errors in Precipitation Measurements. <i>Hydrology Research</i> , 1978, 9, 145-160.	2.7	4
39	The interaction between the unsaturated zone, aquifer, and stream during a period of groundwater withdrawal. <i>Journal of Hydrology</i> , 2011, 396, 49-60.	5.4	4
40	Comment on "Sensitivity analysis and determination of streambed leakance and aquifer hydraulic properties" by X. Chen and X. Chen. <i>Journal of Hydrology</i> , 2005, 303, 316-321.	5.4	1
41	Logging in deep water wells in central Jutland, Denmark. <i>Boreas</i> , 2008, 16, 393-404.	2.4	1
42	Flow and form. <i>Nature Geoscience</i> , 2012, 5, 164-165.	12.9	1