

Leif Backman

List of Publications by Year in descending order

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27
papers

1,041
citations

430874

18
h-index

526287

27
g-index

46
all docs

46
docs citations

46
times ranked

1917
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar proton events of October–November 2003: Ozone depletion in the Northern Hemisphere polar winter as seen by GOMOS/Envisat. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	141
2	Dehydrogenation of i-Butane on CrOx/SiO ₂ Catalysts. <i>Journal of Catalysis</i> , 1999, 184, 349-356.	6.2	100
3	Arctic and Antarctic polar winter NO _x and energetic particle precipitation in 2002–2006. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	97
4	A novel Co/SiO ₂ catalyst for hydrogenation. <i>Catalysis Today</i> , 1998, 43, 11-19.	4.4	71
5	Impacts of climate change on temperature, precipitation and hydrology in Finland – studies using bias corrected Regional Climate Model data. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3217-3238.	4.9	66
6	Characterisation of Co/SiO ₂ catalysts prepared from Co(acac) ₃ by gas phase deposition. <i>Applied Catalysis A: General</i> , 2001, 208, 223-234.	4.3	53
7	Activity of Molybdenum Oxide Catalyst in the Dehydrogenation of n-Butane. <i>Journal of Catalysis</i> , 1999, 183, 300-313.	6.2	49
8	Preparation of silica-supported cobalt catalysts through chemisorption of cobalt(ii) and cobalt(iii) acetylacetonate. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2466-2472.	2.8	46
9	Global methane emission estimates for 2000–2012 from CarbonTracker Europe-CH ₄ ; v1.0. <i>Geoscientific Model Development</i> , 2017, 10, 1261-1289.	3.6	40
10	The activity of the Co/SiO ₂ catalyst in relation to pretreatment. <i>Applied Catalysis A: General</i> , 1997, 156, 319-334.	4.3	39
11	Mesosphere-to-stratosphere descent of odd nitrogen in February–March 2009 after sudden stratospheric warming. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4645-4655.	4.9	39
12	Effect of support and calcination on the properties of cobalt catalysts prepared by gas phase deposition. <i>Applied Catalysis A: General</i> , 2000, 191, 55-68.	4.3	38
13	Brief communication: Light-absorbing impurities can reduce the density of melting snow. <i>Cryosphere</i> , 2014, 8, 991-995.	3.9	35
14	The interaction of cobalt species with alumina on Co/Al ₂ O ₃ catalysts prepared by atomic layer deposition. <i>Applied Catalysis A: General</i> , 2009, 360, 183-191.	4.3	33
15	Controlled deposition of Co ₂ (CO) ₈ on silica in a fluidized bed reactor: IR, chemisorption and decomposition studies. <i>Applied Catalysis A: General</i> , 1999, 177, 25-36.	4.3	26
16	Polar-night O ₃ , NO ₂ and NO ₃ distributions during sudden stratospheric warmings in 2003–2008 as seen by GOMOS/Envisat. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1051-1066.	4.9	24
17	Biogeophysical impacts of peatland forestation on regional climate changes in Finland. <i>Biogeosciences</i> , 2014, 11, 7251-7267.	3.3	24
18	HIMMELI v1.0: Helsinki Model of Methane build-up and emission for peatlands. <i>Geoscientific Model Development</i> , 2017, 10, 4665-4691.	3.6	24

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19	Global analysis of scintillation variance: Indication of gravity wave breaking in the polar winter upper stratosphere. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	23
20	The link between springtime total ozone and summer UV radiation in Northern Hemisphere extratropics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8649-8661.	3.3	16
21	Spatial distributions and seasonal cycles of aerosol climate effects in India seen in a global climate aerosol model. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10177-10192.	4.9	12
22	Calibrating the sqHIMMELI v1.0 wetland methane emission model with hierarchical modeling and adaptive MCMC. <i>Geoscientific Model Development</i> , 2018, 11, 1199-1228.	3.6	12
23	Methane budget estimates in Finland from the CarbonTracker Europe-CH ₄ data assimilation system. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 71, 1565030.	1.6	11
24	Variability of water vapour in the Arctic stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4307-4321.	4.9	7
25	The effects of driver data on the performance of the FinROSE chemistry transport model. <i>International Journal of Remote Sensing</i> , 2010, 31, 6401-6408.	2.9	3
26	Linking uncertainty in simulated Arctic ozone loss to uncertainties in modelled tropical stratospheric water vapour. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15047-15067.	4.9	1
27	The Role of Emission Sources and Atmospheric Sink in the Seasonal Cycle of CH ₄ and ¹³ C-CH ₄ : Analysis Based on the Atmospheric Chemistry Transport Model TM5. <i>Atmosphere</i> , 2022, 13, 888.	2.3	1