

J Feichter

List of Publications by Year in descending order

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49
papers

11,562
citations

126907

33
h-index

214800

47
g-index

73
all docs

73
docs citations

73
times ranked

9015
citing authors

#	ARTICLE	IF	CITATIONS
1	Global indirect aerosol effects: a review. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 715-737.	4.9	2,261
2	The aerosol-climate model ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1125-1156.	4.9	990
3	Global Air Pollution Crossroads over the Mediterranean. <i>Science</i> , 2002, 298, 794-799.	12.6	920
4	Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1853-1877.	4.9	779
5	An AeroCom initial assessment of optical properties in aerosol component modules of global models. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1815-1834.	4.9	697
6	Construction of a 1° × 1° fossil fuel emission data set for carbonaceous aerosol and implementation and radiative impact in the ECHAM4 model. <i>Journal of Geophysical Research</i> , 1999, 104, 22137-22162.	3.3	618
7	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9001-9026.	4.9	585
8	Terrestrial biogeochemical feedbacks in the climate system. <i>Nature Geoscience</i> , 2010, 3, 525-532.	12.9	486
9	Transient Climate Change Simulations with a Coupled Atmosphere-Ocean GCM Including the Tropospheric Sulfur Cycle. <i>Journal of Climate</i> , 1999, 12, 3004-3032.	3.2	467
10	Aerosol indirect effects in general circulation model intercomparison and evaluation with satellite data. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8697-8717.	4.9	418
11	The global aerosol-climate model ECHAM-HAM, version 2: sensitivity to improvements in process representations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8911-8949.	4.9	319
12	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	4.9	278
13	Monthly averages of aerosol properties: A global comparison among models, satellite data, and AERONET ground data. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	258
14	The effect of harmonized emissions on aerosol properties in global models in an AeroCom experiment. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4489-4501.	4.9	228
15	Aerosol nucleation and its role for clouds and Earth's radiative forcing in the aerosol-climate model ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10733-10752.	4.9	190
16	DMS cycle in the marine ocean-atmosphere system in a global model study. <i>Biogeosciences</i> , 2006, 3, 29-51.	3.3	162
17	Sensitivity of aerosol concentrations and cloud properties to nucleation and secondary organic distribution in ECHAM5-HAM global circulation model. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1747-1766.	4.9	153
18	Aerosol size-dependent below-cloud scavenging by rain and snow in the ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4653-4675.	4.9	129

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19	A comparison of scavenging and deposition processes in global models: results from the WCRP Cambridge Workshop of 1995. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 1025-1056.	1.6	113
20	Influences of in-cloud aerosol scavenging parameterizations on aerosol concentrations and wet deposition in ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1511-1543.	4.9	109
21	Modeling cosmogenic radionuclides ^{10}Be and ^{7}Be during the Maunder Minimum using the ECHAM5-HAM General Circulation Model. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2797-2809.	4.9	96
22	Impact of carbonaceous aerosol emissions on regional climate change. <i>Climate Dynamics</i> , 2006, 27, 553-571.	3.8	94
23	Estimating the direct and indirect effects of secondary organic aerosols using ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8635-8659.	4.9	81
24	Response of dimethylsulfide (DMS) in the ocean and atmosphere to global warming. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	78
25	Simulating the global atmospheric black carbon cycle: a revisit to the contribution of aircraft emissions. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2521-2541.	4.9	76
26	Radon activity in the lower troposphere and its impact on ionization rate: a global estimate using different radon emissions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7817-7838.	4.9	73
27	The evolution of the global aerosol system in a transient climate simulation from 1860 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 3059-3076.	4.9	72
28	Trace gas and aerosol interactions in the fully coupled model of aerosol-chemistry-climate ECHAM5-HAMMOZ: 1. Model description and insights from the spring 2001 TRACE-P experiment. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	72
29	Quantification of DMS aerosol-cloud-climate interactions using the ECHAM5-HAMMOZ model in a current climate scenario. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7425-7438.	4.9	65
30	An improvement on the dust emission scheme in the global aerosol-climate model ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1105-1117.	4.9	63
31	Re-analysis of tropospheric sulfate aerosol and ozone for the period 1980-2005 using the aerosol-chemistry-climate model ECHAM5-HAMMOZ. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9563-9594.	4.9	63
32	Aerosol microphysics modules in the framework of the ECHAM5 climate model - intercomparison under stratospheric conditions. <i>Geoscientific Model Development</i> , 2009, 2, 97-112.	3.6	59
33	Trace gas and aerosol interactions in the fully coupled model of aerosol-chemistry-climate ECHAM5-HAMMOZ: 2. Impact of heterogeneous chemistry on the global aerosol distributions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	38
34	Influence of future air pollution mitigation strategies on total aerosol radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6405-6437.	4.9	38
35	Impact of the regional climate and substance properties on the fate and atmospheric long-range transport of persistent organic pollutants - examples of DDT and ^{13}C -HCH. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1231-1248.	4.9	37
36	Aerosol activation and cloud processing in the global aerosol-climate model ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2389-2399.	4.9	36

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37	Stratosphere-troposphere exchange in a changing climate simulated with the general circulation model MAECHAM4. Journal of Geophysical Research, 2003, 108, .	3.3	35
38	Aerosol effect on climate extremes in Europe under different future scenarios. Geophysical Research Letters, 2013, 40, 2290-2295.	4.0	34
39	¹⁰ Be measured in a GRIP snow pit and modeled using the ECHAM5-HAM general circulation model. Geophysical Research Letters, 2008, 35, .	4.0	28
40	The present-day decadal solar cycle modulation of Earth's radiative forcing via charged H ₂ SO ₄ /H ₂ O aerosol nucleation. Geophysical Research Letters, 2012, 39, .	4.0	26
41	Impact of vertical resolution on the transport of passive tracers in the ECHAM4 model. Tellus, Series B: Chemical and Physical Meteorology, 2002, 54, 344-360.	1.6	26
42	<sup>36</sup>Cl bomb peak: comparison of modeled and measured data. Atmospheric Chemistry and Physics, 2009, 9, 4145-4156.	4.9	25
43	Tropospheric aerosol size distributions simulated by three online global aerosol models using the M7 microphysics module. Atmospheric Chemistry and Physics, 2010, 10, 6409-6434.	4.9	23
44	The regional aerosol-climate model REMO-HAM. Geoscientific Model Development, 2012, 5, 1323-1339.	3.6	19
45	Rate of non-linearity in DMS aerosol-cloud-climate interactions. Atmospheric Chemistry and Physics, 2011, 11, 11175-11183.	4.9	12
46	Brightening of the global cloud field by nitric acid and the associated radiative forcing. Atmospheric Chemistry and Physics, 2012, 12, 7625-7633.	4.9	10
47	How present aerosol pollution from North America impacts North Atlantic climate. Tellus, Series A: Dynamic Meteorology and Oceanography, 2010, 62, 579-589.	1.7	9
48	Influence of future air-pollution mitigation strategies on climate by 2030. IOP Conference Series: Earth and Environmental Science, 2009, 6, 022003.	0.3	0
49	Atmospheric Chemistry and Aerosol Dynamics. , 2000, , 353-374.		0