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The global distribution of mineral dust

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#	Paper	IF	Citations
46	Single-particle mineralogy of Chinese soil particles by the combined use of low-Z particle electron probe X-ray microanalysis and attenuated total reflectance-FT-IR imaging techniques. <i>Analytical Chemistry</i> , 2011 , 83, 7970-7	7.8	17
45	Atmospheric dust modeling from meso to global scales with the online NMMB/BSC-Dust model □ Part 1: Model description, annual simulations and evaluation. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13001-13027	6.8	156
44	Change of the Asian dust source region deduced from the composition of anthropogenic radionuclides in surface soil in Mongolia. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7069-7080	6.8	28
43	Mineral dust photochemistry induces nucleation events in the presence of SO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20842-7	11.5	101
42	Volcanic and atmospheric controls on ash iron solubility: A review. <i>Physics and Chemistry of the Earth</i> , 2012 , 45-46, 103-112	3	50
41	Mineral dust aerosols over the Sahara: Meteorological controls on emission and transport and implications for modeling. <i>Reviews of Geophysics</i> , 2012 , 50,	23.1	213
40	Climatology of nocturnal low-level jets over North Africa and implications for modeling mineral dust emission. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6100-6121	4.4	87
39	Desert dust and human health disorders. <i>Environment International</i> , 2014 , 63, 101-13	12.9	405
38	Comparison of measured and calculated collision efficiencies at low temperatures. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13759-13776	6.8	8
37	Identification and monitoring of Saharan dust: An inventory representative for south Germany since 1997. <i>Atmospheric Environment</i> , 2015 , 109, 87-96	5.3	24
36	A Systematic Review of Global Desert Dust and Associated Human Health Effects. <i>Atmosphere</i> , 2016 , 7, 158	2.7	91
35	Dust-induced radiative feedbacks in north China: A dust storm episode modeling study using WRF-Chem. <i>Atmospheric Environment</i> , 2016 , 129, 43-54	5.3	49
34	Spatial and temporal variabilities of spring Asian dust events and their impacts on chlorophyll-a concentrations in the western North Pacific Ocean. <i>Geophysical Research Letters</i> , 2017 , 44, 1474-1482	4.9	21
33	Model analysis of soil dust impacts on the boundary layer meteorology and air quality over East Asia in April 2015. <i>Atmospheric Research</i> , 2017 , 187, 42-56	5.4	14
32	Chemical characteristics and deposition fluxes of dust-carbon mixed coarse aerosols at three sites of Delhi, NCR. <i>Journal of Atmospheric Chemistry</i> , 2017 , 74, 399-421	3.2	9
31	Harmattan, Saharan heat low, and West African monsoon circulation: modulations on the Saharan dust outflow towards the North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10223-10243	6.8	32
30	Relationship between AOD and synoptic circulation over the Eastern Mediterranean: A comparison between subjective and objective classifications. <i>Atmospheric Environment</i> , 2018 , 177, 253-261	5.3	4

29	Nitrate-Enhanced Oxidation of SO on Mineral Dust: A Vital Role of a Proton. <i>Environmental Science & Technology</i> , 2019 , 53, 10139-10145	10.3	13
28	Radiative Effect of Mineral Dust on East Asian Summer Monsoon During the Last Glacial Maximum: Role of Snow-Albedo Feedback. <i>Geophysical Research Letters</i> , 2019 , 46, 10901-10909	4.9	9
27	Characteristics of ozone and particles in the near-surface atmosphere in the urban area of the Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4153-4175	6.8	17
26	Spring 2018 Asian Dust Events: Sources, Transportation, and Potential Biogeochemical Implications. <i>Atmosphere</i> , 2019 , 10, 276	2.7	8
25	Analysis and Optical Modeling of Individual Heterogeneous Asian Dust Particles Collected at Mauna Loa Observatory. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2702	4.4	5
24	Characterization of Eastern Mediterranean dust storms by area of origin; North Africa vs. Arabian Peninsula. <i>Atmospheric Environment</i> , 2019 , 198, 158-165	5.3	13
23	A Quantitative Model-Based Assessment of Stony Desert Landscape Evolution in the Hami Basin, China: Implications for Plio-Pleistocene Dust Production in Eastern Asia. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090064	4.9	1
22	Natural atmospheric deposition of molybdenum: a global model and implications for tropical forests. <i>Biogeochemistry</i> , 2020 , 149, 159-174	3.8	5
21	Asian dust observed during KORUS-AQ facilitates the uptake and incorporation of soluble pollutants during transport to South Korea. <i>Atmospheric Environment</i> , 2020 , 224, 117305	5.3	8
20	Direct Radiative Forcing Induced by Light-Absorbing Aerosols in Different Climate Regions Over East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032228	4.4	3
19	Impact of greenhouse gas CO ₂ on the heterogeneous reaction of SO ₂ on alpha-Al ₂ O ₃ . <i>Chinese Chemical Letters</i> , 2020 , 31, 2712-2716	8.1	4
18	Evaluation of ECMWF IFS-AER (CAM5) operational forecasts during cycle 41r1 to 6r1 with calibrated ceilometer profiles over Germany. <i>Geoscientific Model Development</i> , 2021 , 14, 1721-1751	6.3	1
17	Estimation of Rangeland Production in the Arid Oriental Region (Morocco) Combining Remote Sensing Vegetation and Rainfall Indices: Challenges and Lessons Learned. <i>Remote Sensing</i> , 2021 , 13, 2095	5	3
16	Modifications in aerosol physical, optical and radiative properties during heavy aerosol events over Dushanbe, Central Asia. <i>Geoscience Frontiers</i> , 2021 , 12, 101251	6	3
15	Desert dust as a significant carrier of atmospheric mercury. <i>Environmental Pollution</i> , 2020 , 267, 115442	9.3	8
14	New particle formation at urban and high-altitude remote sites in the south-eastern Iberian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14253-14271	6.8	12
13	Atmospheric dust modeling from meso to global scales with the online NMMB/BSC-Dust model □ Part 1: Model description, annual simulations and evaluation.		5
12	A neglected transport of plastic debris to cities from farmland in remote arid regions. <i>Science of the Total Environment</i> , 2021 , 150982	10.2	2

11	Change of the Asian dust source region deduced from the relationship between anthropogenic radionuclides in surface soil and precipitation in Mongolia.		
10	Estimating collision efficiencies from contact freezing experiments.		
9	Impact of dust deposition on phytoplankton biomass in the Northwestern Pacific: A long-term study from 1998 to 2020.. <i>Science of the Total Environment</i> , 2021 , 813, 152536	10.2	2
8	15-Year Analysis of Direct Effects of Total and Dust Aerosols in Solar Radiation/Energy over the Mediterranean Basin. <i>Remote Sensing</i> , 2022 , 14, 1535	5	1
7	Sensitivity of Summertime Convection to Aerosol Loading and Properties in the United Arab Emirates. <i>Atmosphere</i> , 2021 , 12, 1687	2.7	1
6	Quantifying Spatio-Temporal Dynamics of African Dust Detection Threshold for PM10 Concentrations in the Caribbean Area Using Multiscale Decomposition. <i>Frontiers in Environmental Science</i> , 2022 , 10,	4.8	2
5	Relative Merits of Optimal Estimation and Non-Linear Retrievals of Sea-Surface Temperature from MODIS. <i>Remote Sensing</i> , 2022 , 14, 2249	5	0
4	Using a Sensitivity Analysis and Spatial Clustering to Determine Vulnerability to Potentially Toxic Elements in a Semiarid City in Northwest Mexico. 2022 , 14, 10461		0
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2	Aerial transport of bacteria by dust plumes in the Eastern Mediterranean revealed by complementary rRNA/rRNA-gene sequencing. 2023 , 4,		0
1	Estimates of Dust Emissions and Organic Carbon Losses Induced by Wind Erosion in Farmland Worldwide from 2017 to 2021. 2023 , 13, 781		0