Recommended dust spectrometer for Iran

Internal dust hotspots span over 5 million hectares across 23 provinces, while external sources primarily affect Iran through transboundary movements from neighboring countries.

Annual dust hazardousness maps of Iran for the period 2000-2024, derived from the integration of dynamic dust indicators (frequency, intensity, and continuity) and key hydroclimatic ...

An assessment of change point and trend of diurnal variation of dust storms in Iran: a multi-instrumental approach from in situ, multi-satellite, and reanalysis dust product.

Two main subjects for researching in Iran are increasing the frequency of dust storm events and dust origins. Some studies based on satellite images and metrological data have been conducted to ...

In this paper, we systematically examine the TOMS satellite absorbing aerosol product (AI) over a 25-year period (1979-2004) for evidence of local persistent dust sources and simultaneously ...

This study investigated two events of dominant dust in southwestern Iran using moderate resolution imaging spectroradiometer imagery, Reanalysis Datasets (meteorological fields and atmospheric ...

This study analyzed the spatio-temporal evolution, distribution, and trends of dust events of different types (suspended dust vs. blowing dust) and ...

In order to identify foreign dust sources affecting southwestern Iran from 2003 to 2018, dust was retrieved from MODIS images, one day before, on the day and on the next day of the dust event, by ...

This study analyzed the spatio-temporal evolution, distribution, and trends of dust events of different types (suspended dust vs. blowing dust) and intensities over Iran, aiming to assess the ...

Therefore, this study analyzes 12-year meteorological databases obtained at 427 stations in Iran to clarify the distribution of dust events and occurrence frequencies of the dust in a recent...

The material and methods section outlines the use of Aqua satellite MODIS sensor data alongside two algorithms to identify dust sources, focusing on Aerosol Optical Depth (AOD) data during peak dust ...

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