1. Record Nr. UNINA9910864187703321

Autore	Fomba Khanneh Wadinga
Titolo	Advances in Air Quality Research in Africa : Proceedings of the First International Conference on Air Quality in Africa (ICAQ'Africa 2022) / / edited by Khanneh Wadinga Fomba, Bertrand Tchanche Fankam, Abdelwahid Mellouki, Daniel M. Westervelt, Michael R. Giordano
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031535253 9783031535246
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (125 pages)
Collana	Advances in Science, Technology & Innovation, IEREK Interdisciplinary Series for Sustainable Development, , 2522-8722
Altri autori (Persone)	Tchanche FankamBertrand MelloukiAbdelwahid WesterveltDaniel M GiordanoMichael R
Disciplina	363.73
Soggetti	Pollution Atmospheric science Medical policy Environmental health Medicine, Preventive Health promotion Public health administration Atmospheric Science Health Policy Environmental Health Health Promotion and Disease Prevention Health Administration
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	PART 1: Sources and Characterization of Air Pollutants -- PART 2: Ambient and Indoor Air Quality Measurements -- PART 3: Data, Modelling and Forecasting -- PART 4: Air Pollution and Health Effects -- PART 5: Policy, Regulation, Public Awareness and Materials for

Sensing Devices.

Sommario/riassunto

This book presents the recent findings on air quality in Africa from the virtual event of the first International Conference on Air Quality in Africa (ICAQ 2022), providing a comprehensive overview on many subjects of air pollution that affect African society. It highlights research progress in the chemical and physical characterization of air pollutants, their related respiratory and non-respiratory health effects, measurements and monitoring of air pollutants using satellite remote sensing and modeling techniques, currently implemented abatement policies in different African countries, existing research and networking infrastructures, and novel tools for monitoring air quality. The advances in the development of local cost-effective air quality monitoring tools in Africa as well as the use of low-cost sensors in quantifying air quality levels are presented. This book is an enrichment for researchers, experts, and advocates of air quality, atmospheric chemistry and physics, satellite remote sensing applications, and policymakers in Africa.