

1. Record Nr.	UNINA9910824289703321
Titolo	Ultrafine particles in the atmosphere [[electronic resource] /] / editors, L.M. Brown ... [et al.]
Pubbl/distr/stampa	London, : Imperial College Press, 2003, c2000
ISBN	1-281-86585-0 9786611865856 1-84816-122-0
Descrizione fisica	1 online resource (320 p.)
Altri autori (Persone)	BrownL. M <1936-> (Lawrence Michael)
Disciplina	530.413
Soggetti	Nanoparticles - Health aspects Atmospheric chemistry Aerosols - Health aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Papers based on lectures at a multidisciplinary discussion held by the Royal Society, March 2000. Originally published: London : Royal Society, 2000.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CONTENTS ; Preface ; Chapter 1 Measurements of Number Mass and Size Distribution of Particles in the Atmosphere ; 1. Introduction ; 2. Size Distribution of Particles in the Atmosphere ; 3. Sources of Ultrafine Particles ; 4. Measurement Methods for Particulate Matter 5. Examples of Measurements of Atmospheric Ultrafine Particles 6. Relationship of Particle Mass and Number within the Atmosphere ; Chapter 2 The Chemical Composition of Atmospheric Ultrafine Particles ; 1. Introduction ; 2. Atmospheric Ultrafine Particle Chemical Composition 3. Emissions of Ultrafine Particles to the Southern California Atmosphere 4. Conclusions ; Chapter 3 Overview of Methods for Analysing Single Ultrafine Particles ; 1. Introduction ; 2. Single Ultrafine Particle Analysis Methods ; 3. Summary ; 4.

Disclaimer

Chapter 4 Particles from Internal Combustion Engines - What We Need to Know 1.

Introduction ; 2. Current Test Procedures ; 3. Thermodynamic Paths of Dilution ; 4. Experimental ; 5. Conclusions

Chapter 5 Size Distributions of 3-10 nm Atmospheric Particles: Implications for Nucleation Mechanisms

1. Introduction ; 2. Advances in Instrumentation ; 3. Tropospheric Measurements ; 4. Discussion ; 5. Conclusions

Chapter 6 Photochemical Generation of Secondary Particles in the United Kingdom

---

Sommario/riassunto

Following the recognition that airborne particulate matter, even at quite modest concentrations, has an adverse effect on human health, there has been an intense research effort to understand the mechanisms and quantify the effects. One feature that has shone through is the important role of ultrafine particles as a contributor to the adverse effects of airborne particles. In this volume, many of the most distinguished researchers in the field provide a state-of-the-art overview of the scientific and medical research on ultrafine particles.

<br><i>Contents:</i><ul><li>Measurements of Number,

---