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Titolo	Computational chemistry [[electronic resource]] : reviews of current trends. Vol. 9 // editor, Jerzy Leszczynski
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, 2005
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Descrizione fisica	1 online resource (258 p.)
Altri autori (Persone)	LeszczynskiJerzy <1949->
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	PREFACE; CONTENTS; Chapter 1: Molecular Electronics with Gaussian98/03; Chapter 2: Molecular Dynamics Simulations of Single Molecule Atomic Force Microscope Experiments; Chapter 3: Molecular Dynamics Simulations of a Molecular Electronics Device: The NanoCell; Chapter 4: Computation of Excited State Potential Energy Surfaces via Linear Response Theories Based on State Specific Multi-Reference Coupled Electron-Pair Approximation Like Methods Chapter 5: Modelling of Anisotropic Exchange Coupling in Rare-Earth - Transition-Metal Pairs: Applications to Yb ³⁺ -Mn ²⁺ and Yb ³⁺ -Cr ³⁺ Halide Clusters and Implications to the Light Up-Conversion Chapter 6: Is a Dihydrogen Bond a Unique Phenomenon?; INDEX; CONTENT INDEX
Sommario/riassunto	Vast progress in the area of computational chemistry has been achieved in the last decade. Theoretical methods such as quantum mechanics, molecular dynamics and statistical mechanics have been successfully used to characterize chemical systems and to design new materials, drugs and chemicals. The reviews presented in this volume discuss the current advances in computational methodologies and their applications. The areas covered include materials science, nanotechnology, inorganic and biological systems. The major thrust of the book is to bring timely overviews of new findings and methods appl

2. Record Nr.	UNINA9910956926903321
Titolo	Air pollution and health // edited by Stephen T. Holgate ... [et al.]
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Descrizione fisica	1 online resource (1083 p.)
Altri autori (Persone)	HolgateS. T
Disciplina	613.19 615.9/02 21 615.902
Soggetti	Air - Pollution - Health aspects Air - Pollution Air - Pollution - Toxicology Air - Pollution - Physiological effect
Lingua di pubblicazione	Inglese
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Nota di contenuto	Front Cover; Air Pollution and Health; Copyright Page; Preface; Contributors; Contents; Chapter 1. Introduction; Chapter 2. Air Pollution and Health History; PART 1: GEOGRAPHICAL, ATMOSPHERIC AND GROUND DETERMINANTS OF AIR POLLUTION; Chapter 3. Basic Meteorology; Chapter 4. Atmospheric Chemistry; Chapter 5. Measurements of Concentrations of Air Pollutants; Chapter 6. Patterns of Air Pollution in Developed Countries; Chapter 7. Patterns of Air Pollution in Developing Countries; Chapter 8. Sources of Air Pollution; Chapter 9. Exposure Assessment PART 2: RESPIRATORY TRACT DETERMINANTS OF AIR POLLUTION EFFECTS Chapter 10. Animal Models to Study for Pollutant Effects; Chapter 11. Novel Approaches to Study Nasal Responses to Air Pollution; Chapter 12. Effects of Cigarette Smoke and Air Pollutants on the Lower Respiratory Tract; Chapter 13. Structure-Function Relationships; Chapter 14. Deposition and Clearance of Inhaled Particles; Chapter 15. Respiratory Reflexes; Chapter 16. Antioxidant Defences in the Extracellular Compartment of the Human Lung; Chapter

17. Air Pollutants: Modulators of Pulmonary Host Resistance Against Infection
18 Carcinogenic Responses to Air PollutantsPART 3: GENERAL METHODOLOGICAL AGENTS OF AIR POLLUTANT HEALTH EFFECTS;
Chapter 19. Biomarkers of Exposure; Chapter 20. The Epidemiologic Approach to Investigating Outdoor Air Pollution; Chapter 21. Health Effects of Air Pollution Episodes; PART 4: OZONE; Chapter 22. Epidemiological Studies of Ozone Exposure Effects; Chapter 23. Controlled Exposure to Ozone, Nitrogen Oxides and Acids; Chapter 24. Acute and Chronic Effects of Ozone in Animal Models; PART 5: OXIDES OF NITROGEN AND SULFUR
Chapter 25. Epidemiological Effects of Oxides of Nitrogen, Especially NO₂Chapter 26. Toxicology of Sulfur Oxides; Chapter 27. Acid Sulfate Aerosols and Health; PART 6: SUSPENDED PARTICULATES; Chapter 28. Composition of Air Pollution Particles; Chapter 29. Metals and Air Pollution Particles; Chapter 30. Particulate Air Pollution: Injurious and Protective Mechanisms in the Lungs; Chapter 31. Epidemiology of Particle Effects; Chapter 32. The Health Effects of Diesel Exhaust: Laboratory and Epidemiologic Studies; PART 7: CARBON MONOXIDE, LEAD AND AIR TOXICS; Chapter 33. Carbon Monoxide
Chapter 34. LeadChapter 35. Selected Organic Chemicals; PART 8: ESTIMATING HEALTH AND COST IMPACTS; Chapter 36. Air Pollution and Lung Cancer; Chapter 37. Controlled Exposures of Asthmatics to Air Pollutants; Chapter 38. Risk Assessment and Air Pollution; Chapter 39. Estimating the Effects of Air Pollutants on the Population: Human Health Benefits of Sulfate Aerosol Reductions Under Title IV of the 1990 Clean Air Act Amendment; Chapter 40. Costing the Health Effects of Poor Air Quality; PART 9: AIR QUALITY STANDARDS AND INFORMATION NETWORKS
Chapter 41. Technology and Costing of Air Pollution Abatement

Sommario/riassunto

Concern about the impact of air pollution has led governments and local authorities across the world to regulate, among other things, the burning of fossil fuels, industrial effluence, cigarette smoke, and aerosols. This legislation has often followed dramatic findings about the impact of pollution on human health. At the same time there have been significant developments in our ability to detect and quantify pollutants and a proliferation of urban and rural air pollution networks to monitor levels of atmospheric contamination. Air Pollution and Health is the first fully comprehensiv
