

1. Record Nr.	UNINA9910815477003321
Titolo	Energy and transportation : challenges for the chemical sciences in the 21st century // Organizing Committee for the Workshop on Energy and Transportation, Committee on Challenges for the Chemical Sciences in the 21st Century, Board on Chemical Sciences and Technology, Division on Earth and Life Studies, National Research Council of the National Academies
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, c2003
ISBN	0-309-16692-6 1-280-20934-8 9780309526841 9786610209347 0-309-52684-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (126 p.)
Disciplina	621.042072073
Soggetti	Energy development - Research - United States Transportation - Research - United States Chemical engineering - Research - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"The Workshop on Energy and Transportation took place on January 7-9, 2002, in Washington, D.C. This workshop was the second in a series of workshops that comprise the study Challenges in the Chemical Sciences in the 21st Century."--P. ix.
Nota di bibliografia	Includes bibliographic references.
Nota di contenuto	""Front Matter""; ""Preface""; ""Acknowledgment of Reviewers""; ""Contents""; ""Executive Summary""; ""1 Introduction""; ""2 Research Opportunities and Challenges in the Energy Sector""; ""3 Fuel Cell Development Managing the Interfaces""; ""4 Interface Challenges and Opportunities in Energy and Transportation""; ""5 R&D Challenges in the Chemical Sciences to Enable Widespread Utilization of Renewable Energy""; ""6 Nano- and Microscale Approaches to Energy Storage and Corrosion""; ""7 Challenges for the Chemical Sciences in the 21st Century""; ""8 A Renaissance for Nuclear Power?"" ""9 Materials Technologies for Future Vehicles""""10 Could Carbon

Sequestration Solve the Problem of Global Warming?"; ""11 The Hydrogen Fuel Infrastructure for Fuel Cell Vehicles"; ""12 Opportunities for Catalysis Research in Energy and Transportation"; ""13 Role of 21st Century Chemistry in Transportation and Energy"; ""14 Future Challenges for the Chemical Sciences in Energy and Transportation"; ""Appendixes"; ""A Statement of Task"; ""B Biographies of the Organizing Committee Members"; ""D Workshop Agenda"; ""E Results from Breakout Sessions"
