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#### Sommario/riassunto

This book dedicates to publish exceptionally important and high-quality, agenda-setting research so as to tackle the key global and societal challenges of ensuring the provision of energy and protecting our environment for the future. The book appeals to chemical scientists, chemical and process engineers, energy researchers, bio-scientists and environmental scientists from across academia, industry and government. The scope is intentionally broad, and the book recognizes the complexity of issues and challenges relating to energy conversion and storage, alternative fuel technologies and environmental science. The main topics of this book include but not limit to (1) alternative energy and the environment, (2) assessments of the condition of ecosystems and environmental quality, (3) behavior of and impacts of pollutants in atmosphere, soil and water, (4) management of ecosystems, environment and water resources, (5) modeling and regional environmental assessments (includes global change), (6) treatment/restoration of ecosystems, environment and water resources, (7) sustainable/renewable energy and (8) energy and built environment. All scales of studies and analysis, from impactful fundamental advances, to interdisciplinary research across the (bio) chemical, (bio/geo)physical sciences and chemical engineering disciplines are welcomed. So, this book is linked to the energy-environment nexus and is of significant general interest to our community-spanning readership.

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