



## Carbon-Neutral Fuels and Energy Carriers (Green Chemistry and Chemical Engineering)

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# **Carbon-Neutral Fuels and Energy Carriers (Green Chemistry and Chemical Engineering)**

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Concerns over an unstable energy supply and the adverse environmental impact of carbonaceous fuels have triggered considerable efforts worldwide to find carbon-free or low-carbon alternatives to conventional fossil fuels. **Carbon-Neutral Fuels and Energy Carriers** emphasizes the vital role of carbon-neutral energy sources, transportation fuels, and associated technologies for establishing a sustainable energy future. Each chapter draws on the insight of world-renowned experts in such diverse fields as photochemistry and electrochemistry, solar and nuclear energy, biofuels and synthetic fuels, carbon sequestration, and alternative fuel vehicles.

After an introductory chapter on different energy options in a carbon-constrained world and proposed measures to stabilize atmospheric CO<sub>2</sub>, the book analyzes the advantages and challenges facing the introduction of hydrogen fuel to the marketplace. It then examines the role of nuclear power in the production of carbon-free energy and fuels as well as the efficient use and storage of renewable energy resources, emphasizing the production of solar fuels from water and CO<sub>2</sub>. The book also discusses different aspects of bioenergy and biofuels production and use and the potential role of bio-inspired energy systems and industrial processes. The final chapters present a thorough overview and analysis of state-of-the-art fossil fuel decarbonization technologies and clean transportation options.

This authoritative work provides the information needed to make more informed choices regarding available clean energy and fuel alternatives. It helps readers to better understand the interconnection between energy and the environment as well as the potential impact of human activities on climate.



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