



# Hydrogen Storage Technology: Materials and Applications

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## Hydrogen Storage Technology: Materials and Applications

Zero-carbon, hydrogen-based power technology offers the most promising long-term solution for a secure and sustainable energy infrastructure. With contributions from the world's leading technical experts in the field, **Hydrogen Storage Technology: Materials and Applications** presents a broad yet unified account of the various materials science, physics, and engineering aspects involved in storing hydrogen gas so that it can be used to provide power. The book helps you understand advanced hydrogen storage materials and how to build systems around them.

Accessible to nonscientists, the first chapter explains how a hydrogen-based energy carrier and storage infrastructure is *required* to address fuel resource and political insecurities as well as global climate change. The second chapter describes high-efficiency hydrogen conversion devices, including internal combustion engines and fuel cells, for producing power and electricity.

The book then dives into the state of the art in hydrogen storage technology. It covers recent hydrogen storage materials research and hydrogen storage methods, with an emphasis on solid-state techniques. It also reviews codes and standards and explores engineering approaches for creating zero-emission, hydrogen-fueled power systems.

Collecting recent results from around the globe, this book gets you up to date on the latest hydrogen-based technology for mitigating energy and environmental risks. It provides a deep science and engineering-based description of hydrogen storage materials and clearly explains how the materials are engineered for zero-emission, carbon-free power systems.

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