



Advanced Aerogels: From Design to Application

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Message from the Guest Editor

Aerogels are a class of highly porous materials with unique properties such as low density, high surface area, and high thermal insulation. These materials have gained significant attention in various fields including energy storage, environmental remediation, and aerospace due to their exceptional properties. In recent years, significant advances have been made in the design and application of aerogels, leading to the development of advanced aerogel materials with enhanced properties and functionalities.

Another important aspect of advancing aerogel technology is the development of novel composite materials that combine aerogels with other functional materials to create materials with enhanced properties. For example, aerogel composites with carbon nanotubes have been shown to exhibit superior mechanical strength and conductivity, making them ideal for applications in structural materials and electronics. Overall, the advancements in aerogel technology have opened up new possibilities for the design and application of these unique materials.





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Message from the Editorial Board

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