

Topological materials possess unique electronic properties and hold immense attraction to both fundamental physics research and practical applications. Over the past ...

Abstract Topological quantum materials (TQMs) have symmetry protected band structures with useful electronic properties that have applications in information, sensing, ...

Topological quantum materials (TQMs) have symmetry protected band structures with useful electronic properties that have applications in information, sensing, energy, and other ...

Based on band structure and symmetry considerations, topological materials are broadly categorized into topological insulators (gapless surface states with insulating bulk), ...

Topological quantum materials for energy conversion and storage ?????????????????? ??? ???? ?? ??? ? ???? ???? ?(...

Article on Topological quantum materials for energy conversion and storage, published in Nature Reviews Physics 4 on 2022-07-11 by Huixia Luo+3. Read the article ...

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Experimental results demonstrate that the topological functional gradient can regulate the breakdown strength and polarization strength of the composite dielectric, and then ...

In this Perspective, we present an overview of recent progress in topological quantum catalysis. We describe the open problems and the potential applications of TQMs in water splitting, ...

Topological materials offer a novel platform for thermoelectric energy conversion through unique band features, including band inversion, linear Dirac bands, surface states, and ...

This review provides a summary of various energy-related topological materials and topologically engineered materials that have been developed thus far and explore the ...

Recent studies have suggested that more than 27% of existing materials are topological and exhibit intrinsically high electrical conductivity with high stability protected by ...

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In this Perspective, we present an overview of the recent progress regarding topological quantum catalysis. We describe the open problems, and the potential applications of TQMs in water ...

Topological quantum materials host protected, high-mobility surface states which can be used for energy conversion and storage. This Perspective discusses recent progress in using ...

All these topological quantum materials share one thing in common the intrinsic and robust conducting surface states, which lead to many practical applications ranging from ...

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