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Symmetry/Asymmetry in Advanced Research for Efficient Electric Vehicles

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Message from the Guest Editor

Internal combustion vehicles are being replaced by electric vehicles (xEVs) owing to the depletion of fossil fuels and higher emissions of greenhouse gases. xEVs are considered a promising technology for sustainable transportation in the future because of their zero-carbon footprint, high efficiency, and low noise. In the last few decades, fully electric vehicles, plug-in hybrid electric vehicles, fuel cell vehicles, and grid integrated electric vehicles have gained popularity due to advances reported in this technology. Despite significant research development, there exist some barriers that need to be addressed to ensure the full reliability of xEVs in the transport sector. The present Special Issue proposes a platform for presenting the latest research results, research solutions to the existing barriers, and technological advancements as they pertain to xEVs...



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Special Issue



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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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