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Hydrogen and Fuel Cells: From Materials to Systems

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Message from the Guest Editors

This Special Issue will address advances in materials science, processing, characterization, technology development and system testing of various types of fuel cells and hydrogen processes. The introduction of efficient and sustainable energy conversion technologies and zero-emission vehicles is strongly required worldwide to address urgent environmental issues. Fuel cell technology represents one of the most appropriate approaches to address these problems, and hydrogen can become an important energy vector in future energy systems. These technologies comply with the requirement of a low carbon economy by 2050, where both hydrogen and a highly efficiency distributed power generation using fuel cells, providing both electrical power and heat, can significantly reduce the emission of green-house gases. Articles and reviews dealing with fuel cells and hydrogen for different market applications, including zero-emission vehicles, grid-balancing service, power-to-gas, portable power systems, combined heat and power (CHP) production, consumer devices and distributed energy systems are very welcome.



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Special Issue



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Message from the Editor-in-Chief

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