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Ceramic Materials for Energy Technologies

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Message from the Guest Editors

Dear Colleagues,

Modern civilization heavily relies on stable and sustainable energy generation. Development of new ceramic materials is crucial for energy technology to keep up with present challenges.

Applications of ceramics in energy technology are wide and varied. These include high-temperature ceramic materials for power generation in gas turbines, ceramics in the nuclear fuel cycle, and materials for concentrated solar power. Another wide application area involves the use of the electrochemical properties of ceramics; this includes solid oxide fuel cells, ceramic ion transport membranes for gas separation and ceramics for electrochemical storage (solid state batteries). Yet, another area of ceramic application in energy technology includes thermoelectric and piezoelectric materials.

The Special Issue aims to cover new developments in relation to ceramics for energy technology and create a convenient platform for authors to share their ideas and findings. Authors are welcome to report their original findings in the area, as well as short reviews covering recent advances in the field.

Dr. Andrey O. Zhigachev Dr. Pinar Kaya Dr. Paolo Fedeli







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Message from the Editor-in-Chief

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