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Challenge and Research Trends of Solar Concentrators II

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Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

As the most abundant renew energy resource, solar energy has attracted interest from scientists all over the world. In order to increase its efficient use, solar concentrators maximizing sun power density are widely used in solar energy research and applications. New progress in solar concentrators is of vital importance for further breakthroughs in the following and many other research areas:

1. Solar CPV electricity generation;
2. Solar fuel production of H2, syngas, liquid, and gas hydrocarbons;
3. Cycles for chemical storage of solar energy with ZnO, CeO2, iron, and silica;
4. High added-value material synthesis and/or coating deposits of nanomaterials, new ceramics or metals, foams, catalytic layers;
5. High-flux photochemistry and photophysics;
6. Characterization of materials' behavior and properties under extreme conditions;
7. Solar pumping of laser for industrial and space applications.

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Message from the Editor-in-Chief

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