

## Special Issue

# Advanced Materials Solutions and Architectures for a New Generation of High-Efficiency CSP Plants

### Message from the Guest Editors

The development of advanced materials solutions and innovative architectures are two of the main research priorities for the advancement of the concentrating solar power (CSP) technology, and the key to improving the performance of the current systems and fostering the development of a new generation of high-efficiency CSP plants. Novel functional materials; material combinations; advanced architectures; their development, processing, simulation and analysis, and synergies with other advanced technologies can enhance the performance and reliability of key components of CSP plants such as mirrors, receivers, thermal energy storage systems, etc., thus boosting conversion efficiencies beyond the state-of-the-art, taking into account the preservation of the lifetime and the materials resource efficiencies. In this way, it will be possible to increase the efficiency and durability of the CSP facilities and make this renewable energy technology cost-competitive under suitable electricity market conditions.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 April 2023)



## Materials

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### Message from the Editor-in-Chief

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