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# Application of Supercritical Carbon Dioxide Power Cycles for Thermal Energy Storage

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Deadline for manuscript submissions:

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# **Message from the Guest Editors**

High efficiency, flexibility, and competitive capital costs make supercritical CO<sub>2</sub> (sCO<sub>2</sub>) systems a promising technology for renewable power generation in a low carbon energy scenario. Recently, innovative supercritical systems have been studied showing promising superior techno-economic features than steam cycles or ORC, particularly at high temperatures. Currently, our first experimental experiences are aiming to explore sCO<sub>2</sub> Brayton power plants and their coupling with power systems with low carbon heat sources, such as waste heat, concentrated solar energy, and geothermal.

Application of Supercritical Carbon Dioxide Power Cycles for Thermal Energy Storage is a Special Issue for those who would like to publish original papers about technologies, models, and methodologies that could strengthen sCO2 power cycles development. This Special Issue aims at presenting important results of work in sCO2 advanced energy systems and their application for energy storage purpose. Works can be applied research, development of new procedures, energy systems (at cycle innovation and components level), original application of existing knowledge, or new design and modelling approaches.











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## **Editor-in-Chief**

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# **Message from the Editor-in-Chief**

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