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Low Carbon Energy Generation and Utilization Technologies

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Message from the Guest Editors

With the continued growth in global energy demand and the intensification of the climate change problem caused by excessive CO₂ emissions, the development of low-carbon energy technologies has become an important global consensus. Low-carbon energy technologies refer to reducing fossil fuel consumption and CO₂ emissions in all aspects of energy production, transmission, utilization, and consumption, such as the development and utilization of new and renewable sources of energy, the efficient use of fossil energy sources, and carbon capture, utilization, and storage (CCUS). The research and development of new, efficient, clean, and economical energy technologies can effectively reduce fossil fuel consumption and mitigate climate change, which is an important way to solve global environmental problems and is also of great significance in promoting regional economic development. This Special Issue will exchange knowledge on the development of innovative devices, emerging technologies, system optimizations, practical implementations, and state-of-the-art analyses and findings in the area of “low carbon energy generation and utilization technologies”.



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Special Issue



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Message from the Editor-in-Chief

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