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Special Issue Reprint

Challenges and Opportunities in the Global Clean Energy Transition

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This Reprint presents recent research on the global clean energy transition, with a focus on technologies and systems that support sustainable development, improved energy efficiency, and reduced environmental impact. It brings together contributions on energy harvesting, conversion and storage, smart and green transport, energy-efficient manufacturing, and digital technologies for sustainable industry and society. This Reprint also highlights interdisciplinary advances in modelling, control, intelligent systems, electronics, mechatronics, and clean technology applications that improve energy performance and quality of life. By combining theoretical developments, experimental studies, and practical engineering solutions, the collection reflects current challenges and opportunities in building cleaner, smarter, and more resilient energy systems. It is intended for researchers, engineers, and practitioners working at the intersection of energy, digitalization, and sustainable innovation.

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