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Solar Energy and Resource Utilization

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The ongoing global energy transition places solar energy at the centre of an increasingly diversified portfolio of low-carbon technologies. Reducing greenhouse gas emissions is not only a scientific imperative but a socio-political priority, shaping investment flows and research agendas. Concentrating solar power, photovoltaic conversion, and solar thermal systems are converging towards higher efficiencies, smarter controls, and deeper integration with energy storage and end-use sectors. This Reprint collects eight contributions that, taken together, trace a coherent arc spanning from the materials and component level up to full system integration and application, offering a panoramic view of where solar energy research stands and where it is headed.

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