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Nota di contenuto	PREFACE; RESEARCH INITIATIVES TOWARDS SUSTAINABLE HANDLING OF ENERGY; PHOTOVOLTAIC CELLS; THERMOELECTRIC CONVERTERS; BATTERIES AND SUPERCAPACITORS; FUEL CELLS; HYDROGEN GENERATION AND STORAGE; SUPERCONDUCTORS
Sommario/riassunto	The search for cleaner, cheaper, smaller and more efficient energy technologies has to a large extent been motivated by the development of new materials. The aim of this collection of articles is therefore to focus on what materials-based solutions can offer and show how the rationale design and improvement of their physical and chemical properties can lead to energy-production alternatives that have the potential to compete with existing technologies. In terms of alternative means to generate electricity that utilize renewable energy sources, the most dramatic breakthroughs for both mobile (i.