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Collana	Inorganic materials series
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Altri autori (Persone)	BruceDuncan W WaltonRichard I O'HareDermot
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Soggetti	Energy storage - Materials Electric batteries - Materials Power electronics - Materials
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Energy Materials; Contents; Inorganic Materials Series Preface; Preface; List of Contributors; 1 Polymer Electrolytes; 1.1 Introduction; 1.1.1 Context; 1.1.2 Polymer Electrolytes - The Early Years; 1.2 Nanocomposite Polymer Electrolytes; 1.3 Ionic Liquid Based Polymer Electrolytes; 1.3.1 Ionic Liquid Properties; 1.3.2 Ion Gels; 1.3.3 Polymer Electrolytes Based on Polymerisable Ionic Liquids; 1.4 Crystalline Polymer Electrolytes; 1.4.1 Crystalline Polymer: Salt Complexes; References; 2 Advanced Inorganic Materials for Solid Oxide Fuel Cells; 2.1 Introduction 2.1.1 Conventional SOFC Electrolytes 2.1.2 Conventional Anodes; 2.1.3 Conventional Cathodes; 2.1.4 Summary; 2.2 Next Generation SOFC Materials; 2.2.1 Novel Electrolyte Materials; 2.2.2 Novel Cathodes; 2.2.3 Ceramic and Sulfur Tolerant Anodes; 2.3 Materials Developments through Processing; 2.4 Proton Conducting Ceramic Fuel Cells; 2.4.1

Materials for Proton Conducting Solid Oxide Fuel Cells (PC-SOFCs); 2.5 Summary; References; 3 Solar Energy Materials; 3.1 Introduction; 3.1.1 The Solar Spectrum; 3.1.2 The Photovoltaics Industry; 3.1.3 Terminology; 3.2 Development of PV Technology  
3.2.1 First Generation: Crystalline Silicon (c-Si) 3.2.2 Second Generation: Thin-Film Technologies; 3.2.3 Third Generation: Nanotechnology/Electrochemical PVs; 3.3 Summary; Acknowledgements; References; 4 Hydrogen Adsorption on Metal Organic Framework Materials for Storage Applications; 4.1 Introduction; 4.2 Hydrogen Adsorption Experimental Methods; 4.3 Activation of MOFs; 4.4 Hydrogen Adsorption on MOFs; 4.4.1 Hydrogen Adsorption Capacity Studies; 4.4.2 Temperature Dependence of Hydrogen Physisorption; 4.4.3 Hydrogen Surface Interactions in Pores 4.4.4 Framework Flexibility and Hysteretic Adsorption 4.4.5 Comparison of Hydrogen and Deuterium Adsorption; 4.5 Conclusions; Acknowledgements; References; Index

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## Sommario/riassunto

In an age of global industrialisation and population growth, the area of energy is one that is very much in the public consciousness. Fundamental scientific research is recognised as being crucial to delivering solutions to these issues, particularly to yield novel means of providing efficient, ideally recyclable, ways of converting, transporting and delivering energy. This volume considers a selection of the state-of-the-art materials that are being designed to meet some of the energy challenges we face today. Topics are carefully chosen that show how the skill of the synthetic chemist can

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2. Record Nr.	UNINA9910805582603321
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Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (522 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14497
Disciplina	929.605
Soggetti	Application software Computer systems Computer networks Data structures (Computer science) Information theory Coding theory Computer science Computer and Information Systems Applications Computer System Implementation Computer Communication Networks Data Structures and Information Theory Coding and Information Theory Theory of Computation Programari d'aplicació Sistemes informàtics Xarxes d'ordinadors Estructures de dades (Informàtica) Teoria de la informació Teoria de la codificació Congressos Llibres electrònics
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## Nota di contenuto

Detection and Recognition -- Image Analysis and Processing; Image Restoration and Enhancement; Image Attention and Perception -- Reconstruction; Rendering and Animation -- Synthesis and Generation -- Visual Analytics and Modeling; Graphics and AR/VR -- Medical Imaging and Robotics -- Theoretical Analysis; Image Analysis and Visualization in Advanced Medical Imaging Technology -- Empowering Novel Geometric Algebra for Graphics and Engineering.

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## Sommario/riassunto

This 4-volume set of LNCS 14495-14498 constitutes the proceedings of the 40th Computer Graphics International Conference, CGI 2023, held in Shanghai, China, August 28 – September 1, 2023. The 149 papers in this set were carefully reviewed and selected from 385 submissions. They are organized in topical sections as follows: Detection and Recognition; Image Analysis and Processing; Image Restoration and Enhancement; Image Attention and Perception; Reconstruction; Rendering and Animation; Synthesis and Generation; Visual Analytics and Modeling; Graphics and AR/VR; Medical Imaging and Robotics; Theoretical Analysis; Image Analysis and Visualization in Advanced Medical Imaging Technology; Empowering Novel Geometric Algebra for Graphics and Engineering.

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