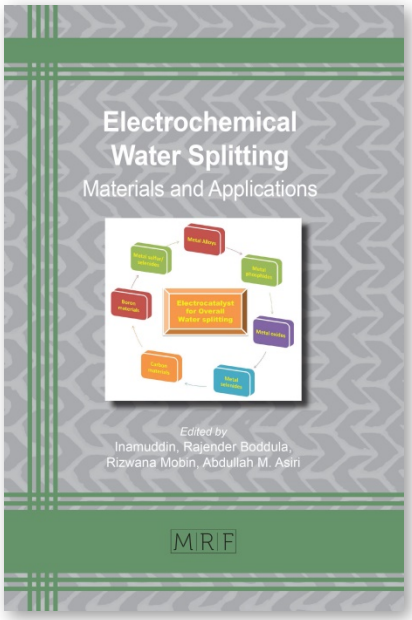
Advanced eBook Information

Materials Research
Solid State Physics and Engineering

Electrochemical Water Splitting

Materials and Applications

Eds. Inamuddin, Rajender Boddula, Rizwana Mobin, Abdullah M. Asiri



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Aiming at the generation of hydrogen from water, electrochemical water splitting represents a promising clean technology for generating a renewable energy resource.

Keyword: Electrochemical Water Splitting, Renewable Energy Resource, Electrocatalysts, Oxygen Evolution Reaction (OER), Noble Metal Catalysts, Earth-Abundant Metal Catalysts, MOF Catalysts, Carbon-based Nanocatalysts, Polymer Catalysts, Transition Metal-based Electrocatalysts, Fe-based Electrocatalysts, Co-based Electrocatalysts, Ni-based Electrocatalysts, Metal Free Catalysts, Transition-Metal Chalcogenides, Prussian Blue Analogues

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Summary:

Aiming at the generation of hydrogen from water, electrochemical water splitting represents a promising clean technology for generating a renewable energy resource. The book reviews the fundamental aspects and describes recent research advances. Properties and characterization methods for various types of electrocatalysts are discussed, including noble metals, earth-abundant metals, metal-organic frameworks, carbon nanomaterials and polymers.

Materials Research Forum LLC
105 Springdale Lane
Millersville, PA 17551
U.S.A.

http://www.mrforum.com
e-mail: t.wohlbier@mrforum.com
Phone: (+1) 717 872 1943

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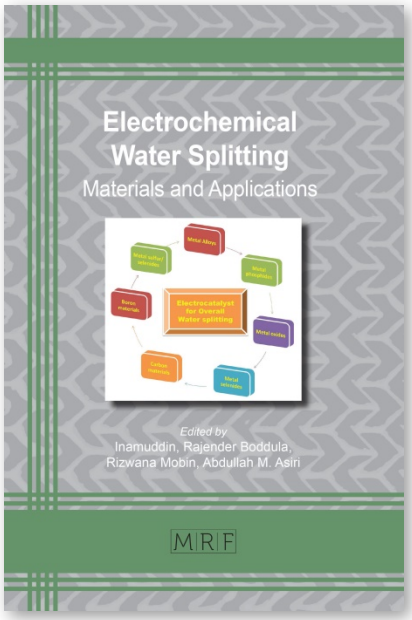

Handbook / color print, paperback

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