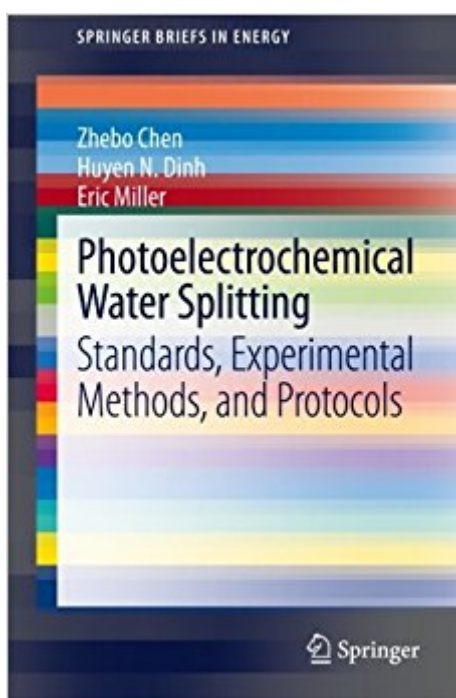


The book was found

# Photoelectrochemical Water Splitting: Standards, Experimental Methods, And Protocols (SpringerBriefs In Energy)



## Synopsis

This book outlines many of the techniques involved in materials development and characterization for photoelectrochemical (PEC) – for example, proper metrics for describing material performance, how to assemble testing cells and prepare materials for assessment of their properties, and how to perform the experimental measurements needed to achieve reliable results towards better scientific understanding. For each technique, proper procedure, benefits, limitations, and data interpretation are discussed. Consolidating this information in a short, accessible, and easy to read reference guide will allow researchers to more rapidly immerse themselves into PEC research and also better compare their results against those of other researchers to better advance materials development. This book serves as a “how-to” guide for researchers engaged in or interested in engaging in the field of photoelectrochemical (PEC) water splitting. PEC water splitting is a rapidly growing field of research in which the goal is to develop materials which can absorb the energy from sunlight to drive electrochemical hydrogen production from the splitting of water. The substantial complexity in the scientific understanding and experimental protocols needed to sufficiently pursue accurate and reliable materials development means that a large need exists to consolidate and standardize the most common methods utilized by researchers in this field.

## Book Information

Series: SpringerBriefs in Energy

Paperback: 126 pages

Publisher: Springer; 2013 edition (August 29, 2013)

Language: English

ISBN-10: 1461482976

ISBN-13: 978-1461482970

Product Dimensions: 6.1 x 0.3 x 9.2 inches

Shipping Weight: 9.6 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,674,939 in Books (See Top 100 in Books) #91 in Books > Science & Math > Chemistry > Physical & Theoretical > Electrochemistry #114 in Books > Science & Math > Chemistry > Electrochemistry #2826 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science

## Customer Reviews

This book outlines many of the techniques involved in materials development and characterization for photoelectrochemical (PEC) – for example, proper metrics for describing material performance, how to assemble testing cells and prepare materials for assessment of their properties, and how to perform the experimental measurements needed to achieve reliable results towards better scientific understanding. For each technique, proper procedure, benefits, limitations, and data interpretation are discussed. Consolidating this information in a short, accessible, and easy to read reference guide will allow researchers to more rapidly immerse themselves into PEC research and also better compare their results against those of other researchers to better advance materials development. This book serves as a “how-to” guide for researchers engaged in or interested in engaging in the field of photoelectrochemical (PEC) water splitting. PEC water splitting is a rapidly growing field of research in which the goal is to develop materials which can absorb the energy from sunlight to drive electrochemical hydrogen production from the splitting of water. The substantial complexity in the scientific understanding and experimental protocols needed to sufficiently pursue accurate and reliable materials development means that a large need exists to consolidate and standardize the most common methods utilized by researchers in this field.

[Download to continue reading...](#)

Photoelectrochemical Water Splitting: Standards, Experimental Methods, and Protocols (SpringerBriefs in Energy) Pure Water: The Science of Water, Waves, Water Pollution, Water Treatment, Water Therapy and Water Ecology Experimental Structural Dynamics: An Introduction to Experimental Methods of Characterizing Vibrating Structures Water Clarity Secrets for Ponds and Water Gardens: The Quick and Easy Way to Crystal Clear Water (Water Garden Masters Series Book 5) Reiki: The Healing Energy of Reiki - Beginner’s Guide for Reiki Energy and Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing for Beginners Book 1) Fruit Infused Water - 80 Vitamin Water Recipes for Weight Loss, Health and Detox Cleanse (Vitamin Water, Fruit Infused Water, Natural Herbal Remedies, Detox Diet, Liver Cleanse) Bacteriophages: Methods and Protocols, Volume 2: Molecular and Applied Aspects (Methods in Molecular Biology) Candida Albicans: Methods and Protocols (Methods in Molecular Biology) Candida Species: Methods and Protocols (Methods in Molecular Biology) Cystic Fibrosis Methods and Protocols (Methods in Molecular Medicine) Legionella: Methods and Protocols (Methods in Molecular Biology) Hemoglobin Disorders: Molecular Methods and Protocols (Methods in Molecular Medicine, Vol. 82) Patch-Clamp Methods and Protocols (Methods in Molecular Biology) Liposome Methods and Protocols (Methods in Molecular Biology) Vaccine Technologies for

Veterinary Viral Diseases: Methods and Protocols (Methods in Molecular Biology) Mouse Models of Allergic Disease: Methods and Protocols (Methods in Molecular Biology) Telephone Triage Protocols for Nurses (Briggs, Telephone Triage Protocols for Nurses098227) Telephone Triage Protocols for Nursing (Briggs, Telephone Triage Protocols for Nurses098227) Telephone Triage Protocols for Nurses (Briggs, Telephone Triage Protocols for Nurses) Li-S and Li-O<sub>2</sub> Batteries with High Specific Energy: Research and Development (SpringerBriefs in Molecular Science)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)