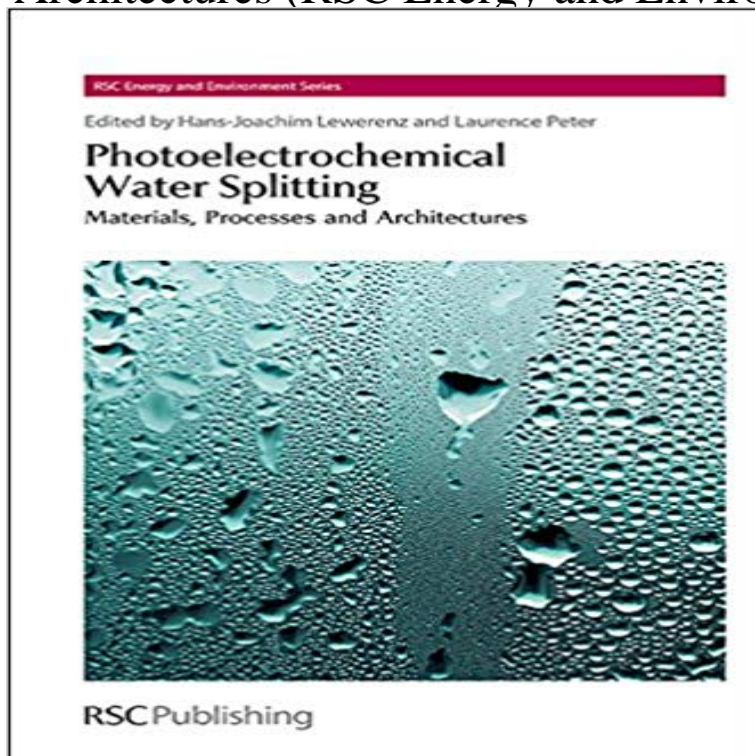


Photoelectrochemical Water Splitting: Materials, Processes and Architectures (RSC Energy and Environment Series)



There has been a resurgence of interest in light-induced water splitting as the search for storable carbon neutral energy becomes more urgent. Although the history of the basic idea dates back more than four decades, efficient, economical and stable integrated devices have yet to be realized. In the continuing quest for such devices, the field of photoelectrochemistry is entering a new phase where the extraordinary interdisciplinary of the research and development efforts are opening new avenues. This aspect of current research effort is reflected in the chapters of this book, which encompass present thinking in the various disciplines such as materials science, photo-electrochemistry and interfaces that can contribute to realization of viable solar fuel generators. This book presents a blend of the background science and recent advances in the field of photoelectrochemical water splitting, and includes aspects that point towards medium to long term future realization. The content of the book goes beyond the more traditional approaches to the subject by including topics such as novel excitation energy processes that have only been realized so far in advanced photonics. The comprehensive overview of current activities and development horizons provided by the impressive collection of internationally renowned authors therefore represents a unique reflection of current thinking regarding water splitting by light.

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Photoelectrochemical Water Splitting : Materials - RSC Publishing Materials, Processes and Architectures

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Oct 4, 2013 From series: RSC Energy and Environment Series the book: Photoelectrochemical Water Splitting : Materials, Processes and Architectures. **Photoelectrochemical Water Splitting: Materials, Processes and** : Photoelectrochemical Water Splitting: Materials, Processes and Architectures (RSC Energy and Environment Series) (9781849736473) and a **Front Matter - (RSC Publishing) DOI:10.1039/9781782622338-FP001 Front Matter - (RSC Publishing) DOI:10.1039/9781782624042-FP001** From Book Series : RSC Energy and Environment Series 9: Photoelectrochemical Water Splitting: Materials, Processes and Architectures. 10: Biological **Front Matter - Photoelectrochemical Water Splitting (RSC Publishing)** Oct 4, 2013 From series: RSC Energy and Environment Series Photoelectrochemical Water Splitting : Materials, Processes and Architectures. 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Subjects: Published: (2015) Photoelectrochemical water splitting : materials, processes and architectures **9781849736473: Photoelectrochemical Water Splitting: Materials** From Book Series : Energy and Environment Series and Excitation Transfer. 9: Photoelectrochemical Water Splitting: Materials, Processes and Architectures. **Photoelectrochemical water splitting : materials, processes - GBV** Oct 4, 2013 In this chapter the motivation and theoretical framework for using tandem cells to achieve overall solar-to-hydrogen energy conversion are first **RSC Energy and Environment Series Results 1 - 6 of 6** Photoelectrochemical Water Splitting: Materials, Processes and Architectures . Series. RSC Energy and Environment Series (6) About us **Bookshop search - RSC Publishing - Royal Society of Chemistry** Oct 4, 2013 From the book: Photoelectrochemical Water Splitting : Materials, Processes and Architectures. 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Hans-Joachim **CHAPTER 9 - Photoelectrochemical Water Splitting (RSC Publishing)** RSC Energy and Environment Series No. 9. Photoelectrochemical Water Splitting: Materials, Processes and Architectures. Edited by Hans-Joachim Lewerenz **Photoelectrochemical Water Splitting (RSC Publishing)** Results 1 - 12 of 13 Photoelectrochemical Water Splitting: Materials, Processes and Architectures Photoelectrochemical Water Splitting: Materials, Processes and Architectures Solar Energy Conversion: Dynamics of Interfacial Electron and Excitation Transfe. . Filters applied: Series. 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