



## Solar Energy Conversion and Storage: Photochemical Modes (Electrochemical Energy Storage and Conversion)

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- Describes various types of solar cells, including photovoltaic cells, photogalvanic cells, photoelectrochemical cells, and dye-sensitized solar cells
- Covers the photogeneration of hydrogen, photoreduction of carbon dioxide, and artificial/mimicking photosynthesis
- Discusses the generation of electricity from solar cells, as well as methods for storing solar energy in the form of chemical energy
- Highlights existing photochemical methods of solar energy conversion and storage
- Explores emerging trends such as the use of nanoparticles

**Solar Energy Conversion and Storage: Photochemical Modes** provides a comprehensive, state-of-the-art reference for graduate students, researchers, and engineers alike.

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### Editorial Review

#### Review

"... provides an excellent overview of the historical and present literature concerning the different types and functionality of solar energy production cells. ... does a fantastic job introducing the variety of types of solar cells and their means of production of energy via photoelectrochemistry. ... A must have for anybody in the solar cells manufacturing industry."

?Todd J. Menna, Ph.D, Element New Berlin, Wisconsin, USA

"... very interesting ... will appeal to researchers, students, and engineers in the field of renewable energy, specifically in photovoltaic systems."

?Songyuan Dai, North China Electric Power University, Beijing

#### About the Author

**Suresh C. Ameta** obtained his master's degree, and was awarded a Gold Medal in 1970. He secured a first position in M. Phil. in 1978, and a Ph.D. in 1980 from Vikram University. He served as Professor and Head, Department of Chemistry, North Gujarat University Patan (1994) and M. L. Sukhadia University (2002–2005), and as Head, Department of Polymer Science (2005–2008). He also served as Dean, Postgraduate Studies, M. L. Sukhadia University (2004–2008). Now, he is Dean, Faculty of Science, PAHER University. Widely published and highly decorated, Professor Ameta has approximately 43 years of experience in teaching and research.

**Rakshit Ameta** obtained his Master of Science degree with first position, and was awarded a Gold Medal in 2002. He received the Fateh Singh Award from the Maharana Mewar Foundation for his meritorious performance. He has worked at M. L. Sukhadia University and at University of Kota, and presently is an Associate Professor of Chemistry at PAHER University. Widely published, Dr. Ameta has been elected as Scientist-in-Charge, Industrial and Applied Chemistry Section, Indian Chemical Society (2014–2016), and was also elected as a Council Member of the Indian Chemical Society (2011–2013) and the Indian Council of Chemists (2012–2014).

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