

Contents

Metal Oxide Photoanodes for Water Splitting	1
J. Augustyński, B.D. Alexander, and R. Solarska	
Hydrogen Production with Nanostructured and Sensitized Metal Oxides	39
Stefano Caramori, Vito Cristino, Laura Meda, Roberto Argazzi, and Carlo Alberto Bignozzi	
Surface Nanostructures in Photocatalysts for Visible-Light-Driven Water Splitting	95
Kazuhiko Maeda and Kazunari Domen	
Artificial Photosynthesis Challenges: Water Oxidation at Nanostructured Interfaces	121
Mauro Carraro, Andrea Sartorel, Francesca Maria Toma, Fausto Puntoriero, Franco Scandola, Sebastiano Campagna, Maurizio Prato, and Marcella Bonchio	
Photocatalytic Reduction of CO₂: From Molecules to Semiconductors ...	151
Tatsuto Yui, Yusuke Tamaki, Keita Sekizawa, and Osamu Ishitani	
Design of Heterogeneous Photocatalysts Based on Metal Oxides to Control the Selectivity of Chemical Reactions	185
Andrea Maldotti and Alessandra Molinari	
Index	217