1. Record Nr. UNINA9910317698203321

Autore	Wenbin Cao
Titolo	Semiconductor photocatalysis : materials, mechanisms and applications / / edited by Wenbin Cao
Pubbl/distr/stampa	IntechOpen, 2016 Rijeka, Croatia : , : IntechOpen, , [2016] ©2016
ISBN	953-51-4189-9 953-51-2483-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (676 pages) : illustrations
Disciplina	541.395
Soggetti	Photocatalysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	Photocatalysis is a hot topic because it is an environmentally friendly approach toward the conversion of light energy into chemical energy at mild reaction environments. Also, it is well applied in several major areas such as water splitting, bacterial inactivation, and pollutants elimination, which is a possible solution to energy shortage and environmental issues. The fundamental knowledge and the frontier research progress in typical photocatalytic materials, such as TiO2-based and non-TiO2-based photocatalysts, are included in this book. Methods to improve the photocatalytic efficiency and to provide a hint for the rational design of the new photocatalysts are covered.