

1. Record Nr.	UNINA9910299614703321
Autore	Striegler Karl
Titolo	Modified Graphitic Carbon Nitrides for Photocatalytic Hydrogen Evolution from Water : Copolymers, Sensitizers and Nanoparticles // by Karl Striegler
Pubbl/distr/stampa	Wiesbaden : , : Springer Fachmedien Wiesbaden : , : Imprint : Springer Spektrum, , 2015
ISBN	3-658-09740-X
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (100 p.)
Collana	BestMasters, , 2625-3577
Disciplina	541.395 620.115 621.042
Soggetti	Renewable energy resources Catalysis Nanotechnology Renewable and Green Energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Water Splitting.- Graphitic Carbon Nitrides -- Photocatalytic Hydrogen Evolution from Water.- Material Characterization and Improvement -- Sensitizing.- Nanoparticle Deposition.
Sommario/riassunto	Karl Striegler investigates novel materials for photocatalytic hydrogen evolution from water. Graphitic Carbon Nitrides are an interesting class of materials with a structure close to graphite. For overcoming certain limitations, the author used different approaches to functionalize the basic material. He deposited nanoparticles to enhance the catalytic activity and used copolymerization as well as sensitizing to increase the amount of harvested light. Contents Water Splitting Graphitic Carbon Nitrides Photocatalytic Hydrogen Evolution from Water Material Characterization and Improvement Sensitizing Nanoparticle Deposition Target Groups Researchers and students in the field of chemistry The Author Karl Striegler is a Ph.D. student at the Institute of Chemical Technology, research group Heterogeneous Catalysis of Prof. Dr. Roger Gläser, at the University of Leipzig. .

