Record Nr.	UNINA9910555088703321
Autore	Pandikumar Alagarsamy
Titolo	Photocatalytic functional materials for environmental remediation / / edited by Alagarsamy Pandikumar, Kandasamy Jothivenkatachalam
Pubbl/distr/stampa	Hoboken, NJ : , : Wiley, , 2019
ISBN	1-119-52991-3
	1-119-52989-1
	1-119-52994-8
Descrizione fisica	1 online resource (396 pages)
Collana	THEi Wiley ebooks
Disciplina	541.395
Soggetti	Photocatalysis
	Nanocomposites (Materials) - Environmental aspects
	Nanostructured materials - Environmental aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Tomato	
Livello bibliografico	Monografia
Livello bibliografico Nota di contenuto	Monografia Titania and carbon nanomaterials for the photocatalytic degradation of organic dyes Visible light photocatalytic degradation of environmental pollutants using metal oxide semiconductors Contemporary achievements of visible light-driven nanocatalysts for the environmental applications Application of nano-composites for photocatalytic removal of dye contaminants Photo-catalytic active silver phosphate for photo-remediation of organic pollutants Plasmonic Ag-ZnO: charge carrier mechanisms and photocatalytic applications Multi-functional hybrid materials based on layered double hydroxide towards photocatalysis Magnetically separable iron-oxide based nanocomposite photocatalytic materials for environmental remediation Photo functional materials for environmental remediation Graphitic carbon nitride based nanostructured materials for photocatalytic applications Metal- organic frameworks (MOFs) for photocatalytic reduction of carbon dioxide.

1.

materials science, and engineering - focusing on the development of high performance photofunctional materials for the treatment of environmental pollutants. The book contains chapters emphasizing the development of materials such as semiconductor-metal nanocomposites, layered double hydroxides, metal-organic frameworks, and polymer nanocomposites. The remainder of the book focuses on various applications, like the reduction of carbon dioxide and degradation of organic pollutants"--