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2. Record Nr.	UNINA9910555088703321
Autore	Pandikumar Alagarsamy
Titolo	Photocatalytic functional materials for environmental remediation // edited by Alagarsamy Pandikumar, Kandasamy Jothivenkatachalam
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Nota di contenuto	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 environmental remediation -- Active materials for photocatalytic reduction of carbon dioxide.

Sommario/riassunto

"This book gathers and reviews a wide-range of ideas - from experts in the interdisciplinary fields of chemistry, physics, nanotechnology, 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"--
