1. Record Nr. UNINA9910417559303321

Autore	Martin De La Torre, Victoria
Titolo	L'Europa raccontata dai padri fondatori : un viaggio nel tempo per conoscere i pionieri dell'Unione europea / Victoria Martìn De la Torre
Pubbl/distr/stampa	Soveria Mannelli, : Rubbettino, 2019
ISBN	978-88-498-5787-0
Descrizione fisica	225 p. : ill. ; 23 cm
Disciplina	341
Locazione	FSPBC
Collocazione	EU 81
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Traduzione di Fabio De Leonardis

2.

Record Nr.	UNINA9910751386803321
Autore	Prakash Jai
Titolo	Multifunctional Hybrid Semiconductor Photocatalyst Nanomaterials : Application on Health, Energy and Environment / / edited by Jai Prakash, Junghyun Cho, Bruno Campos Janegitz, Shuhui Sun
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-39481-X
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (399 pages)
Collana	Advances in Material Research and Technology, , 2662-477X
Altri autori (Persone)	ChoJunghyun Campos JanegitzBruno SunShuhui
Disciplina	541.395
Soggetti	Semiconductors Nanotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introduction to semiconductor photocatalyst nanomaterials: Properties, modifications and multifunctional applications -- 2. Synthesis of Multifunctional Hybrid Semiconductor Nanomaterials -- 3. Application of Nanostructured Metal Oxides and Its Hybrids for Inactivation of Bacteria and Viruses -- 4. Advances in semiconductor photocatalyst towards the removal of aromatic volatile organic compounds in air -- 5. Hybrid semiconductor photocatalyst nanomaterials in CO2 reduction and storage applications -- 6. SiO2 based multifunctional hybrid semiconductor nanomaterials and their applications in energy, environment and health -- 7. The Future of Graphene Oxide-Based Nanomaterials and Their Potential Environmental Applications: A Contemporary View -- 8. Hybrid semiconductor photocatalyst nanomaterials for electrochemical sensing applications -- 9. Role of TiO2-based Photocatalysts in Waste Water Treatment -- 10. Hybrid photocatalyst nanomaterials insolar cell applications -- 11. Transition metal chalcogenides-based nanocomposite for the photocatalytic degradation of hazardous chemicals -- 12. 3D-printed electrochemical (bio)sensors -- 13. Plasmon- Based Metal-Oxides Nanostructures For Biomedical

Applications -- 14. Recent advances in ZnO-based hybrid nanomaterials as photoelectrodes for photoelectrochemical water splitting -- 15. Semiconductor-based plasmonic nanohybrids: Synthesis, characterization, mechanistic understanding, and their multifunctional applications -- 16. Polymer-based hybrid composites for wastewater treatment.

Sommario/riassunto

This book delves into the world of hybrid photocatalyst nanomaterials and their diverse applications. With a focus on interdisciplinary research, this book highlights the importance of these materials in addressing critical challenges in various fields. The book begins by introducing the significance of multifunctional hybrid photocatalyst nanomaterials and their potential impact on interdisciplinary research. It explores the synthesis techniques employed to create these advanced materials, emphasizing the integration of multiple components to enhance their photocatalytic performance. The applications of hybrid photocatalyst nanomaterials are thoroughly examined throughout the book. From wastewater treatment and energy production to environmental sensing and virus degradation, the diverse range of practical uses is explored in detail. The book also covers recent developments in semiconductor nanomaterials as sensors, screen printing techniques using hybrid nanomaterials, and the use of2D and 3D printing in sensing applications.