

1. Record Nr.	UNINA9910157530203321
Autore	Kobayashi Takaomi
Titolo	Applied environmental materials science for sustainability // Takaomi Kobayashi, editor
Pubbl/distr/stampa	Hershey, PA : , : Information Science Reference, , [2017] 2017
ISBN	9781522519720 9781522519713
Descrizione fisica	1 online resource (xviii, 416 pages) : illustrations (some color), maps
Collana	Advances in Environmental Engineering and Green Technologies (AEEGT) Book Series, ; 2326-9170
Disciplina	620.1/1
Soggetti	Materials science Renewable natural resources Green technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Premier reference source"--Cover.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction of environmental materials / Takaomi Kobayashi -- Natural material source of bagasse cellulose and their application to hydrogel films / Karla L. Tovar Carrillo, Takaomi Kobayashi -- Development and modification of natural rubber for advanced application / Kanoktip Boonkerd -- Natural rubber and rubber blend nanocomposites: reinforcement of natural rubber with polymer-encapsulated inorganic nanohybrid particles / Anyaporn Boonmahitthisud -- Poly (lactic acid) generated for advanced materials / Pranut Potiyaraj -- Inorganic-organic composite materials from liquid natural rubber and epoxidised natural rubber derivatives: prospects and applications / Wan Ahmad Kamil Mahmood, Mohammad Hossein Azarian -- Clay minerals converted to porous materials and their application: challenge and perspective / Pham Thanh Huyen -- Geopolymer sourced with fly ash and industrial aluminum waste for sustainable materials / Sujitra Onutai, Sirithan Jiemsirilers, Takaomi Kobayashi -- Sustainable cooling research using activated carbon adsorbents and their environmental impact / Ahmed M. Elsayed [and 4 others] -- Analysis of lipids produced by microalgae isolated from the area around Okinawa, Japan / Shinya Ikematsu, Ipputa Tada, Yasuma

Nagasaki -- Study on the use of biomass polymer sheets in water/alcohol pervaporation as a sustainable source of alcohol energy / Truong Thi Cam Trang --

Bacterial cellulose: biosyntheses, modifications, and applications / Siriporn Taokaew, Muenduen Phisalaphong, Bi-min Zhang Newby -- Metal ion separation with functional adsorbents and phytoremediation used as sustainable technologies / Minoru Satoh -- Eco-friendly on-site water analyses for ultra-trace harmful ions / Yukiko Takahashi -- Ionic liquids and poly (ionic liquid)s used as green solvent and ultrasound responded materials / Kai Li, Takaomi Kobayashi.

---

Sommario/riassunto

"This book is a key resource on the latest advancements in environmental materials, including the utilization of biomass and waste for advanced materials. Highlighting innovative studies on renewable resources, green technology, and chemical modification"--Provided by publisher.

---