

1. Record Nr.	UNINA9910299395203321
Titolo	Cyclodextrin Applications in Medicine, Food, Environment and Liquid Crystals // edited by Sophie Fourmentin, Grégorio Crini, Eric Lichtfouse
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-76162-5
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (249 pages)
Collana	Environmental Chemistry for a Sustainable World, , 2213-7114 ; ; 17
Disciplina	547.7815
Soggetti	Environmental chemistry Nanotechnology Food—Biotechnology Nutrition Environmental Chemistry Food Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Cyclodextrin-based carriers for delivery of dietary phytochemicals -- 2. Cyclodextrin-steroid interactions and applications to pharmaceuticals, food, biotechnology and environment -- 3. Cyclodextrin-based nanosystems in targeted cancer therapy -- 4. Cyclodextrins for essential oils applications -- 5. Chemosensors for water contaminants based on chromophore-appended cyclodextrins -- 6. Silica materials containing cyclodextrin for pollutant removal -- 7. Supramolecular liquid crystals based on cyclodextrins.
Sommario/riassunto	This book is the second volume of two volumes on cyclodextrins published in the series Environmental Chemistry for a Sustainable World. This volume focuses on cyclodextrin applications. The first chapter by Divya Arora and Sundeep Jaglan presents cyclodextrin-based carriers for delivery of dietary phytochemicals. The second chapter by Éva Fenyvesi et al. describes the interactions of steroids with cyclodextrins and their applications to pharmaceuticals, food, biotechnology and environment. Nazli Erdoar and Erem Bilensoy discuss cyclodextrin-based nanosystems in targeted cancer therapy.

Miriana Kfoury et al. review the use of cyclodextrins for essential oils applications in chapter 4. Hiroshi Ikeda demonstrates in chapter 5 that chromophore-appended cyclodextrins are effective for chemosensors to detect organic molecules by fluorescence or absorbance changes. Then Grégorio Crini et al. describe silica materials-containing cyclodextrin for pollutant removal. The final chapter by Chang-Chun Ling et al. summarizes the synthesis and characterization of supramolecular liquid crystals based on cyclodextrins and their applications.
