

1. Record Nr.	UNINA9910298577103321
Titolo	Chemistry and Chemical Technologies in Waste Valorization // edited by Carol Sze Ki Lin
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer , 2018
ISBN	3-319-90653-4
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (X, 283 p.)
Collana	Topics in Current Chemistry Collections, , 2367-4067
Disciplina	660.6
Soggetti	Biotechnology Chemical engineering Environmental chemistry Industrial Chemistry/Chemical Engineering Environmental Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Sonocatalysis: A Potential Sustainable Pathway for the Valorization of Lignocellulosic Biomass and Derivatives -- Waste Printed Circuit Board (PCB) Recycling Techniques -- Chemical Valorization of Cashew Nut Shells Waste -- Valorisation of Biowastes for the Production of Green Materials Using Chemical Methods -- Valorization of Proteins from Co- and By-Products from the Fish and Meat Industry -- Integration of Waste Valorization for Sustainable Production of Chemicals and Materials via Algal Cultivation -- Recent Trends in Sustainable Textile Waste Recycling Methods: Current Situation and Future Prospects -- Green and Sustainable Separation of Natural Products from Agro-Industrial Waste: Challenges, Potentialities and Perspectives on Emerging Approaches.
Sommario/riassunto	The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a

comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. Chapters "Sonocatalysis: A Potential Sustainable Pathway for the Valorization of Lignocellulosic Biomass and Derivatives", "Valorisation of Biowastes for the Production of Green Materials Using Chemical Methods" and "Green and Sustainable Separation of Natural Products from Agro-Industrial Waste: Challenges, Potentialities, and Perspectives on Emerging Approaches" are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.
