

1. Record Nr.	UNINA9910557583503321
Autore	Sob Mojmir
Titolo	Computational Quantum Physics and Chemistry of Nanomaterials
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (198 p.)
Soggetti	Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This Special Issue of Nanomaterials collects a series of original research articles providing new insight into the application of computational quantum physics and chemistry in research on nanomaterials. It illustrates the extension and diversity of the field and indicates some future directions. It provides the reader with an overall view of the latest prospects in this fast evolving and cross-disciplinary field

2. Record Nr.	UNINA9910674021103321
Autore	Garfi Marianna
Titolo	Biological Treatment of Organic Waste in Wastewater-towards a Circular and Bio-Based Economy
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (106 p.)
Soggetti	History of engineering and technology Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This Special Issue focused on innovative solutions for the biological treatment of organic waste from wastewater. In particular, research articles included in this SI are related to: Process mechanisms and operation, optimization, monitoring, modeling, and applications; Removal of pathogens and emerging pollutants; Reuse and circular economy; Resource recovery (e.g., nutrients recovery, high-value compounds) and energy valorization (e.g., biogas); Life cycle assessment and carbon footprint; Technoeconomic assessment and social perception of waste-to-resource processes; Low-cost technologies; Policy. Overall, this SI provides new ways to valorize organic waste from wastewater and describe novel processes as well as the environmental and social benefits in the frame of the Sustainable Development Goals.