

1. Record Nr.	UNINA9910502980503321
Autore	Muthu Subramanian Senthilkannan
Titolo	Sustainable packaging // Subramanian Senthilkannan Muthu
Pubbl/distr/stampa	Singapore : , : Springer, , [2021] ©2021
ISBN	981-16-4609-0
Descrizione fisica	1 online resource (329 pages)
Collana	Environmental Footprints and Eco-Design of Products and Processes
Disciplina	688.8
Soggetti	Packaging - Design - Environmental aspects Package goods industry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Contents -- About the Editor -- The Environmental Performance of Glass and PET Mineral Water Bottles in Italy -- 1 Introduction -- 2 Methodology -- 2.1 Environmental Impact Assessment Methodologies. An Overview of Life Cycle Assessment and Carbon Footprint -- 3 Literature Review -- 3.1 LCA Analysis of Packaging -- 3.2 Carbon Footprint of Packaging -- 4 Assessment and Comparison Through the LCA Methodology of PET and Glass Packaging -- 5 Carbon Footprint of the Water Packaging. The Italian Assessment -- 5.1 European Bottled Water Sector -- 5.2 Italian Bottled Water Sector -- 5.3 Carbon Footprint Assessment -- 5.4 A Comparison as Regards to the Post-Consumption Options of Water Bottles -- 5.5 PET and R-PET in the Beverage Industry -- 6 Conclusions -- References -- Health and Eco-Innovations in Food Packaging -- 1 Introduction -- 1.1 The Role of Packaging to Reduce Food Loss and Waste -- 2 Recent Trends in Food and Drink Packaging: Nanotechnology -- 3 Health Innovations: Active and Intelligent Packaging -- 3.1 Active Packaging -- 3.2 Intelligent Packaging -- 4 Eco-innovations: Compostable Packaging -- 5 Food Packaging Innovation: Evidence from Consumers -- 5.1 Consumer's Acceptance -- 5.2 Consumer's Willingness to Purchase -- 5.3 Consumer's Willingness to Pay -- 5.4 Empirical Case Study -- 6 Food Packaging Innovation: Evidence from Italian Manufacturers -- 6.1 Empirical Case Study -- 7 Conclusions --

References -- Analyzing the Obstacles to Sustainable Packaging in the Context of Developing Economies: A DEMATEL Approach -- 1 Introduction -- 2 Theoretical Background -- 3 Methodology and Cause-Effect Model Development -- 4 Results and Discussion -- 5 Conclusion -- References -- Experimental Study for the Valorization of Polymeric Coffee Capsules Waste by Mechanical Recycling and Application on Contemporary Jewelry Design -- 1 Introduction. 2 Material and Methods -- 2.1 Coffee Capsules -- 2.2 Fourier Transform Infrared Spectroscopy (FT-IR) -- 2.3 Mechanical Analysis -- 2.4 Mold Design and Recycling Procedures -- 3 Results and Discussion -- 3.1 FT-IR Characterization -- 3.2 Mechanical Tests -- 3.3 Polymer Recycling and Molding for Jewelry Application -- 3.4 Artisanal Jewelry Fabrication -- 4 Implications for Waste Valorization -- 5 Conclusions -- References -- Biobased Materials as a Sustainable Potential for Edible Packaging -- 1 Introduction -- 2 Biobased and Biodegradable Materials: Bioplastics -- 3 Bioactive Ingredients and Nutraceuticals -- 3.1 Bioactive Compounds Extracted from By-Products -- 4 Edible Materials as Candidates for Sustainable Food Packaging -- 4.1 History of Edible Materials Development -- 4.2 Edible Packaging: Structure and Processing -- 4.3 Characteristics of Main Edible Components Used in Edible Packaging -- 4.4 Bionanocomposites -- 4.5 Utilisation of (Nano)technologies in Designing of Edible Packaging -- 5 Conclusion: Future Perspectives and Limitations -- References -- The Wicked Problem of Packaging and Consumers: Innovative Approaches for Sustainability Research -- 1 Introduction -- 1.1 The Problem of Food Waste Globally -- 1.2 Current Approaches to Reducing Food Waste -- 1.3 The Scope and Nature of Food Waste in Australia -- 1.4 Consumer's Perceptions and the Role of Packaging in Reducing Food Waste -- 2 The Fight Food Waste Cooperative Research Centre -- 3 FFWCRC Project 1.2.2: Consumer Perceptions of Food Packaging -- 3.1 Consumer Perceptions Are Important in Reducing Food Waste -- 3.2 Design Thinking Methodologies Provide the Opportunity to Deep Dive into the Consumer Journey -- 3.3 The Design Thinking Approach to Project 1.2.2 -- 3.4 Stages of Project 1.2.2 -- 4 Discussion-Key Learnings from Project 1.2.2 -- 4.1 Inspiration and Insight Development. 4.2 Ideation -- 4.3 Implementation -- References -- UV-Shielding Biopolymer@Nanocomposites for Sustainable Packaging Applications -- 1 Introduction -- 2 History and Current Scenario of Plastic Packaging Materials -- 3 What is Smart/Active Packaging? -- 4 Types of UV Rays, Sources, and Their Harmful Effects on Human Health, Foods, and Materials -- 5 Role of Nanomaterials in UV-Shielding and Sustainable Packaging -- 6 Biopolymer and Synthetic Polymer Nanocomposites in UV-Shielding and Sustainable Packaging Applications -- 7 Future Perspectives -- 8 Conclusion -- References -- Design and Development of Robust Optimization Model for Sustainable Cross-Docking Systems: A Case Study in Electrical Devices Manufacturing Company -- 1 Introduction -- 2 Methodology -- 3 Computational Experiments -- 3.1 Data -- 4 Results -- 5 Conclusion -- References -- Active Edible Packaging: A Sustainable Way to Deliver Functional Bioactive Compounds and Nutraceuticals -- 1 Introduction -- 2 Active and Intelligent Packaging Options -- 2.1 Antimicrobial Edible Packaging -- 2.2 Antioxidant Edible Packaging -- 2.3 Combined and Other Types of Active Edible Packaging -- 3 Health Benefits of Active Edible Packaging -- 3.1 Probiotic, Prebiotics and Synbiotics -- 4 Application of Active Edible Packaging -- 4.1 Fruits and Vegetables -- 4.2 Dairy Products -- 4.3 Meat, Fish and Derived Products -- 4.4 Bakery, Nuts and Powdered Materials -- 5 Safety, Environmental

and Economic Concerns of Active Edible Packaging -- 5.1 Safety Concerns of Active Edible Packaging -- 5.2 Economic Sustainability of Edible Packaging -- 5.3 Environmental Concerns of Edible Packaging -- References -- Possibilities for the Recovery and Valorization of Single-Use EPS Packaging Waste Following Its Increasing Generation During the COVID-19 Pandemic: A Case Study in Brazil -- 1 Introduction.

2 Contemporary Jewelry-A More Sustainable Approach -- 3 Experimental Procedure -- 3.1 EPS Waste Material -- 3.2 Mold Fabrication -- 3.3 Recycling and Pieces Obtained -- 4 Discussion -- 5 Conclusions -- References -- Consumers' Purchase Intention and Willingness to Pay for Eco-Friendly Packaging in Vietnam -- 1 Introduction -- 2 Literature Review -- 3 Research Context: Vietnam -- 3.1 Packaged Instant Noodles in Vietnam -- 3.2 What Do We Know About Green Consumption in Vietnam? -- 4 Research Questions -- 5 Materials and Method -- 5.1 Measurement Scale -- 5.2 Questionnaire Design -- 5.3 Pilot Study -- 5.4 Data Collection -- 5.5 Data Analysis -- 5.6 Data Export -- 5.7 Sample Demographic and Behavioural Profiles -- 5.8 Analysis of Demographic Variables -- 5.9 Analysis of Choice Experimental Results -- 6 Discussion -- 6.1 Demographics' Role in Green Purchase Intention for Eco-Friendly Packaging -- 6.2 Willingness to Pay for Eco-Friendly Packaging -- 6.3 Consumer Perceptions of Eco-Friendly Packaging -- 7 Conclusion -- 8 Limitations and Future Directions -- Appendix 1: Survey Questionnaire (in English) -- References.

2. Record Nr.	UNINA9910892355703321
Titolo	Collage: Zeitschrift für Planung, Umwelt und Städtebau (älter als die aktuellen 2 Hefte)
Pubbl/distr/stampa	FSU
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico