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Autore	Reale, O.
Titolo	Partiti e Dottrine Politiche in Italia / O. Reale
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Autore	Chiellini Emo
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Nota di contenuto	Cover; Environmentally compatible food packaging; Copyright; Contents; Contributor contact details; Preface; Dedication; Part I Biobased food packaging materials:new directions; 1 State-of-the-art biobased food packaging materials; 1.1 Introduction: biobased packaging, the food industry and the environment; 1.2 Classification of biobased food packaging materials; 1.3 Properties of biobased food packaging materials; 1.4 Assessing the biodegradability of biobased

materials for food packaging; 1.5 Applications and challenges for biobased food packaging; 1.6 Future trends
1.7 Sources of further information and advice1.8 References; 2 Types, production and assessment of biobased food packaging materials; 2.1 Introduction: rationale and need for biobased food packaging; 2.2 The environmental impact of conventional food packaging; 2.3 Opportunities for renewable polymers; 2.4 Production of biobased food packaging materials; 2.5 Hybrid blends and composites; 2.6 New developments in the production of packaging from recycled lignocellulosic fiber and renewable materials; 2.7 Assessing the biodegradability of renewable materials in food packaging
2.8 Biodegradable packaging life cycle assessment2.9 Food safety concerns, applications and adoption by the industry; 2.10 Future trends; 2.11 Sources of further information and advice; 2.12 References; 3 Thermoplastic nanobiocomposites for rigid and flexible food packaging applications; 3.1 Introduction: plastic food packaging, sustainable materials and barrier properties; 3.2 'Barrier properties' limit the use of plastics in monolayer packaging; 3.3 Novel developments in barrier polymeric structures; 3.4 Polymer blends: the case of permeable fillers
3.5 Nanocomposites: the case of impermeable fillers3.6 Nanobiocomposites for monolayer packaging: polylactic acid, polycaprolactone, polyhydroxyalkanoate and starch; 3.7 Future trends and outlook; 3.8 Nomenclature; 3.9 References; 4 Improved fibre-based packaging for food applications; 4.1 Introduction; 4.2 Properties and uses of fibre-based food packaging; 4.3 Innovative methods to improve fibre-based packaging for food applications; 4.4 Suitability of new fibre-based packaging materials for food packaging
4.5 Assessing the biodegradability of new fibre-based packaging materials for food packaging4.6 Applications and future trends in the food industry; 4.7 Sources of further information and advice; 4.8 References; 5 Starch-based edible films; 5.1 General properties and structure of starch; 5.2 History of edible films; 5.3 Edible film materials and their previous applications; 5.4 Starch film-forming mechanisms - gelatinization and recrystallization; 5.5 Appearance and physical properties of starch films; 5.6 Plasticization of starch films; 5.7 Trends in starch research and applications
5.8 References

Sommario/riassunto

Food packaging performs an essential function, but packaging materials can have a negative impact on the environment. This collection reviews bio-based, biodegradable and recycled materials and their current and potential applications for food protection and preservation.The first part of the book looks at the latest advances in bio-based food packaging materials. Part two discusses the factors involved in choosing alternative packaging materials such as consumer preference, measuring the environmental performance of food packaging, eco-design, and the safety and quality of recycled ma