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| Titolo | Recent Developments in Plastic Recycling // edited by Jyotishkumar Parameswaranpillai, Sanjay Mavinkere Rangappa, Arpitha Gulihonnehalli Rajkumar, Suchart Siengchin |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021 |
| ISBN | 981-16-3627-3 |
| Edizione | [1st ed. 2021.] |
| Descrizione fisica | 1 online resource (383 pages) |
| Collana | Composites Science and Technology, , 2662-1827 |
| Disciplina | 668.4 |
| Soggetti | Polymers Refuse and refuse disposal Composite materials Polymerization Waste Management/Waste Technology Composites Polymer Synthesis |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Introduction to plastic recycling -- Recovery and recycling of plastics -- Recycling of traditional plastics-PP, PS, PVC, PET, HDPE, LDPE, and their blends and composites -- Rubber recycling -- Recycling of thermosetting plastics -- Rheology of recycled plastics -- Thermal analysis of recycled plastics -- Mechanical properties (tensile and three-point bending, fracture behavior, toughening, etc) of recycled plastics -- Production of fuel from waste and recycled plastics -- Economic feasibility, and environmental effects of reusing and recycling plastics -- Applications and future of recycling and recycled plastics. |
| Sommario/riassunto | This book provides a systematic and comprehensive account of the recent developments in the recycling of plastic waste material. It presents state-of-the-art procedures for recycling of plastics from different sources and various characterization methods adopted in analyzing their properties. In addition, it looks into properties, processing, and applications of recycled plastic products as one of the drivers for sustainable recycling plastics especially in developing |

countries. This book proves a useful reference source for both engineers and researchers working in composite materials science as well as the students attending materials science, physics, chemistry, and engineering courses.
