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| Descrizione fisica | 1 online resource (196 pages) : color illustrations |
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| Nota di contenuto | Frontmatter -- Preface -- Acknowledgments -- Contents -- List of contributing authors -- 1. Furfural derivatives from agricultural and agri-food wastes by heterogeneous catalysis -- 2. Biorefinery approach for the utilization of dairy by-products and lignocellulosic biomass to lactic acid -- 3. Biomass and biowastes: renewable resources for biodegradable materials in advanced applications -- 4. Supported metal catalysts for the sustainable upgrading of renewable biomass to value-added fine chemicals and fuels -- 5. State-of-the-art in biomass fast pyrolysis using acidic catalysts: direct comparison between microporous zeolites, mesoporous aluminosilicates and hierarchical zeolites -- 6. Advances in the application of transition metal phosphide catalysts for hydrodeoxygenation reactions of bio-oil from biomass pyrolysis -- 7. Bio-waste and petroleum fractions coprocessing to fuels -- Backmatter -- Index |

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| Sommario/riassunto | Valorization of biomass focuses on the transformation of biomass molecules into substitutes for petroleum-based chemicals that can be reused. Valorizing Biomass and Biowaste discusses the chemistry and composition of alternative biomass sources. Later chapters will introduce new markets and discuss efficient, green methods of process intensification and catalysis in order to increase conversion of biomass/biowastes. |