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Nota di contenuto	1 Disposal of Agricultural waste and its effects on Environment, production of useful metabolites and energy: potential and challenges -- 2 Utilizing Agricultural Waste in Production of Biochar for Improving Soil Properties and Increasing Crop Yield through Field Application -- 3 Value-added products from agricultural waste -- 4 Biomaterials derived from agricultural waste – a focus on collagen -- 5 Valorization of Agricultural Lignocellulosic Plant Byproducts Following Biorefinery Approach Towards Circular Bioeconomy -- 6 Bioactive Peptides from Protein-Rich Waste -- 7 Biopolymers in sugarcane vinasse treatment and valorization -- 8 Valorization of Guava fruit by-products -- 9 Valorization of coffee by-products:An overview -- 10 Valorization of tomato fruit processing residues -- 11 Sustainable utilization of tea waste -- 12 Vitis wastes as a source of stilbenes: natural occurrence, factors affecting biosynthesis and valorization in agri-food sector -- 13 Useful bioactive compounds from Olive tree by-products (leaves, branches, fruits) -- 14 Fruit pomaces as valuable by-products of wine and cider industries -- 15 Secondary Metabolites and Antioxidant Activity of the Solid-State Fermentation in Fruit Waste/Bagasse -- 16 Green extraction techniques applied to recover chemical compounds from olive-derived biomasses -- 17 Production and use of hydrolates from the distillation process of aromatic plants -- 18 From agricultural

waste to functional food products: An Overview -- 19 Recent advancements in agricultural residues valorisation into bio-products -- 20 Biogas Energy from Animal Waste -- 21 Recent Trends and Future Prospects of Nanotechnology for Agro-wastes Valorization into Biofuels.

Sommario/riassunto

This contributed volume deals with problems associated with huge biomass generated by crop plants and the processing of fruits and food materials. The main focus is to address problems associated with organic residues from agro-industrial processes. This book aims to provide a comprehensive and up-to-date account of various processes involved in the valorization of this huge biomass available from agro-industrial processes and obtaining valuable primary and secondary metabolites which will have an impact on the rural economy. Decrease in forest cover associated with the production of agriculture-based waste resulting in pollutants like smoke by burning of residual crops, waste from breweries, food processing, pruning of bushes and trees, and from industries producing proteins, vegetable oils and fruit juices etc. This book is of interest to teachers, researchers, climate change scientists, agriculture scientists and policymakers. The book brings out the latest reading material for botanists, biotechnologists, environmentalists, biologists, policymakers and NGOs working for environmental protection.
