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Nota di contenuto	1. Introductory Chapter: Overview of New Perspectives and Applications of Carotenoids. 2. New Insights on Carotenoid Production by <i>Gordonia alkanivorans</i> Strain 1B. 3. Potential of Carotenoids from Fresh Tomatoes and Their Availability in Processed Tomato-Based Products. 4. Carotenoids in Cassava (<i>Manihot esculenta</i> Crantz). 5. Computational Chemistry Study of Natural Apocarotenoids and Their Synthetic Glycopeptide Conjugates as Therapeutic Drugs. 6. Role of Carotenoids in Cardiovascular Disease. 7. Carotenoids in Thermal Adaptation of Plants and Animals.
Sommario/riassunto	Carotenoids are natural and versatile secondary metabolites, most of them showing colors that vary from yellow to red. They are widespread among living beings where they are involved in many biological roles reporting beneficial actions. To date, more than 750 carotenoids have been described in nature. Humans cannot synthesize carotenoids de novo, thus they are mainly obtained through diet. In fact, carotenoids are consistently found in tissues or biological fluids where they play a beneficial decreasing the risk of developing some diseases. During the last half-century, significant advances in carotenoids research have been made. This book highlights new perspectives and applications of carotenoids including characterization and isolation of new compounds (including rare carotenoids).