Record Nr. UNINA9910807323803321 **Titolo** Antioxidant polymers: synthesis, properties, and applications // edited by Giuseppe Cirilo and Francesca Iemma Pubbl/distr/stampa Beverly, MA, : Scrivener Hoboken, N.J., : Wiley, c2012 **ISBN** 1-280-76816-9 9786613678935 1-118-44551-1 1-118-44544-9 1-118-44548-1 Edizione [1st ed.] Descrizione fisica 1 online resource (522 p.) Classificazione TEC055000 Altri autori (Persone) CiriloGiuseppe **IemmaFrancesca** Disciplina 613.2/86 Soggetti **Antioxidants** Polymers Stabilizing agents Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Antioxidant Polymers: Synthesis, Properties, and Applications; Contents; Preface; List of Contributors; 1. Antioxidants: Introduction; 1.1 The Meaning of Antioxidant; 1.2 The Category of Antioxidants and Introduction of often Used Antioxidants: 1.2.1 BHT: 1.2.2 Quercetin: 1.2.3 BHA; 1.2.4 2-tert-Butylhydroguinone (TBHQ); 1.2.5 Gallic Acid; 1.2.6 Resveratrol; 1.2.7 Luteolin; 1.2.8 Caffeic Acid; 1.2.9 Catechin; 1.3 Antioxidant Evaluation Methods; 1.3.1 DPPH Radical Scavenging Assay; 1.3.2 ABTS Radical Scavenging Activity; 1.3.3 Phosphomolybdenum Assay; 1.3.4 Reducing Power Assay 1.3.5 Total Phenols Assay by Folin-Ciocalteu Reagent1.3.6 Hydroxyl Radical Scavenging Assay: 1.3.7 -carotene-linoleic Acid Assay: 1.3.8 Superoxide Radical Scavenging Assay; 1.3.9 Metal Ion Chelating Assay; 1.3.10 Determination of Total Flavonoid Content; 1.4 Antioxidant and

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Sommario/riassunto

Antioxidant Polymers is an exhaustive overview of the recent developments in the field of polymeric materials showing antioxidant properties. This research area has grown rapidly in the last decade because antioxidant polymers have wide industry applications ranging from materials science to biomedical, pharmaceuticals and cosmetics.