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Nota di contenuto	ADVANCES IN ENZYMOLOGY AND RELATED SUBJECTS OF BIOCHEMISTRY; CONTENTS; Oxidoreduction in Chloroplasts.; I. Introduction.; II. Production of Oxygen by Cell-Free Preparations; III. Oxygen-Producing Reaction of the Chloroplast; IV. Some Properties of the Photochemically Active Chloroplast Material; V. Properties of the Elements Iron and Magnesium in Tetrapyrrolic Compounds; VI. Hematin Compounds of Leaves and Cytochrome f; VII. Effect of Inhibitors on Production of Oxygen by Illuminated Chloroplasts; VIII. Reducing Properties of Chloroplasts IX. Relation of the Chloroplast Reaction to PhotosynthesisReferences; Addendum; Mechanisms of Fixation of Carbon Dioxide by Heterotrohs and Auto-trophs.; I. Introduction; II. Beta-Carboxylation; A. Beta-Carboxylation in Dicarboxylic Acids.; 1 . Occurrence of Reactions Synthesizing Dicarboxylic Acids from Carbon Dioxide; 2. Role of ATP in the Oxalacetate Carboxylase Reaction; 3. Fixation of Carbon Dioxide by the "Malic Enzyme"; 4. Relationship of Oxalacetate Carboxylase and "Malic Enzyme"; 5. Initial Fixation Product in the Oxalacetate Carboxylase Reaction

6. Role of Pyruvate in Oxalacetate Synthesis
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 C. Carbon Dioxide Fixation by the Dismutation Reaction.
 D. Carbon Dioxide Fixation in Alpha-Ketoglutarate.
 E. Summary; IV. Carbon Dioxide Fixation in Adjacent Carbon Atoms;
 A. Synthesis of Acetic Acid from Carbon Dioxide.;
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 B. Carbon Dioxide Fixation in Photosynthesis;
 1. Introduction;
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 C. Stoichiometry of the Reaction of Enzyme and Substrate;
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Sommario/riassunto

Advances in Enzymology and Related Areas of Molecular Biology is a seminal series in the field of biochemistry, offering researchers access to authoritative reviews of the latest discoveries in all areas of enzymology and molecular biology. These landmark volumes date back to 1941, providing an unrivaled view of the historical development of enzymology. The series offers researchers the latest understanding of enzymes, their mechanisms, reactions and evolution, roles in complex biological process, and their application in both the laboratory and industry. Each volume in the series featu