

The Nitrogen Fixation and its Research in China



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Reviews

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(Wilford Metz)

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Nitrogen Fixation by symbiotic organisms is considered an important contribution to the solution of food problems throughout the world. For many years, Chinese scientists have focused their research in this area. Today more than half of the total nitrogen fertilizers applied are from biological fixation sources. The editor is an international renowned scientist at the Chinese Academy of sciences. He has brought together contributions from various research fields in China and Europe. Together they present the state-of-the-art in nitrogen-fixation research. The studies range from actino- mycete fixation induced in various genera and species of plants, mechanisms and chemical modeling of enzyme systems to genetic engineering of organisms. | Section I. Chemistry of Nitrogen Fixation.- 1. Research on the Chemical Modelling of Biological Nitrogen Fixation in the new China-An Overview of Research Carried out at the Fujian Institute During the 1970s and the Early 1980s.- 2. A Chemical Bond Theory of Transition-Metal-Dinitrogen Complexes.- 3. Study on the Chemistry of Molybdenum-Iron-Sulfur and Iron-Sulfur Clusters.- 4. Studies on the Mechanism of Nitrogenase Catalysis Substrates-Cluster-Coordination-Chemistry Approach.- 5. ATP Binding to Nitrogenase and ATP-Driven Electron Transfer in Nitrogen Fixation.- 6. Chemical Modelling of the Active Site of Molybdenum-Iron Protein. Synergism of MoFeS Cubane-Like Unit from Physical and Chemical Evidence.- 7. Synthesis, Structure and Properties of Some Mo-Fe-S Model Compounds for the Mo-Fe Center and the First Coordination Sphere of Mo-Atom in Nitrogenase.- 8. Systematic Investigations on the Bonding Property of the M-Fe-S (M = Mo, V, and W) Cluster Compounds and Novel Assumptions on the Active Center Models of Nitrogenase.- Section II. Biochemistry and Molecular Genetics of Nitrogen Fixation.- 9. Identification and DNA Sequence Analysis of the fixX Gene of *R. leguminosarum* bv. *viciae*.- 10. Multiple Binding Sites in the Complex Between the nodA-D Intergenic Region and the Product of the nodD...

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