

CHEMICAL PRINCIPLES

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Steven S.. Zumdahl,Donald J. DeCoste



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Comprehensive Inorganic Chemistry Jyoti, 2024-03-01 *Comprehensive Inorganic Chemistry Exploring the Elemental Symphony* is a comprehensive book on inorganic chemistry covering fundamental principles and applications. It covers topics such as chemical bonding, periodicity, coordination chemistry, main group chemistry, transition metal chemistry, descriptive inorganic chemistry, solid state chemistry, bioinorganic chemistry, nuclear chemistry, and industrial inorganic chemistry. The book emphasizes the integration of theoretical concepts with real world examples and applications, providing a holistic understanding of inorganic chemistry. The book includes numerous illustrations, diagrams, and worked examples to aid comprehension. It is a valuable resource for students, researchers, and professionals interested in inorganic chemistry, aiming to inspire exploration of its boundless possibilities.

The Periodic Table Eric R. Scerri, 2020 *The Periodic Table Its Story and Its Significance* traces the evolution and development of the periodic table from Mendeleev's 1869 first published table and onto the modern understanding provided by modern physics.

Calcium-Based Materials S.S. Nanda, Jitendra Pal Singh, Sanjeev Gautam, Dong Kee Yi, 2024-05-15 Calcium based natural minerals are important for a wide range of applications. Though these materials are available in nature, researchers are working toward developing them in the laboratory. *Calcium Based Materials Processing Characterization and Applications* introduces the possibility of designing these materials for particular applications. It introduces a variety of calcium based materials and discusses synthesis, growth, and stability. It provides in depth coverage of calcium carbonate. It discusses applications of calcium based minerals in different fields. It includes details on synchrotron X-ray tools for case minerals. This comprehensive text is aimed at researchers in materials science, engineering, and bioengineering.

Biological Crystallization Jaime Gómez Morales, 2019-09-23 For at least six hundred million years, life has been a fascinating laboratory of crystallization, referred to as biomineralization. During this huge lapse of time, many organisms from diverse phyla have developed the capability to precipitate various types of minerals, exploring distinctive pathways for building sophisticated structural architectures for different purposes. The Darwinian exploration was performed by trial and error, but the success in terms of complexity and efficiency is evident. Understanding the strategies that those organisms employ for regulating the nucleation, growth, and assembly of nanocrystals to build these sophisticated devices is an intellectual challenge and a source of inspiration in fields as diverse as materials science, nanotechnology, and biomedicine. However, Biological Crystallization is a broader topic that includes biomineralization but also the laboratory crystallization of biological compounds such as macromolecules, carbohydrates, or lipids, and the synthesis and fabrication of biomimetic materials by different routes. This Special Issue collects 15 contributions ranging from biological and biomimetic crystallization of calcium carbonate, calcium phosphate, and silica, carbonate self-assembled materials, to the crystallization of biological macromolecules. Special attention has been paid to the fundamental phenomena of crystallization, nucleation, and growth, and the applications of the crystals in the biomedicine environment and materials.

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