

## **CHEMISTRY OF LIVING SYSTEMS**

*6a. Students know that carbon, because of its ability to combine in many ways with itself and other elements, has a central role in the chemistry of living organisms.*

### **Basic Information about Carbon**

**Symbol:** C

**Atomic Number:** 6

**Atomic Mass:** 12.0107 amu

**Melting Point:** 3500.0 °C (3773.15 °K, 6332.0 °F)

**Boiling Point:** 4827.0 °C (5100.15 °K, 8720.6 °F)

**Number of Protons/Electrons:** 6

**Number of Neutrons:** 6

**Classification:** Non-metal

**Crystal Structure:** Hexagonal

**Density @ 293 K:** 2.62 g/cm<sup>3</sup>

**Color:** May be black



**Carbon** – an element found in every living thing

**Covalent Bond** – sharing of electrons

Carbon is found in many different compounds. It is in the food you eat, the clothes you wear, the cosmetics you use and the gasoline that fuels your car. Carbon is the sixth most abundant element in the universe. In addition, carbon is a very special element because it plays a dominant role in the chemistry of life. Carbon, discovered in prehistory and was known to the ancients, who manufactured it by burning organic material making charcoal. There are four known isotopes of carbon: amorphous, graphite, diamond and fullerene. A new (fifth) isotope of carbon was recently found. It is a spongy solid that is extremely lightweight and, unusually, attracted to magnets.

### **Compounds made of Carbon**

The simplest organic compounds contain molecules composed of carbon and hydrogen. The compound methane contains one carbon bonded to four hydrogens (CH<sub>4</sub>). Ethane is another example of a simple hydrocarbon. Ethane contains two carbon atoms and six hydrogen atoms (C<sub>2</sub>H<sub>6</sub>)..



*6b. Students know that living organisms are made of molecules consisting largely of carbon, hydrogen, nitrogen, oxygen, phosphorus, and sulfur.*

# The Chemistry Of Living Systems

**Albert A Gayle**

## **The Chemistry Of Living Systems:**

*Complexity Science, Living Systems, and Reflexing Interfaces: New Models and Perspectives* Orsucci, Franco, 2012-09-30 There are new and important advancements in today's complexity theories in ICT and requires an extraordinary perspective on the interaction between living systems and information technologies. With human evolution and its continuous link with the development of new tools and environmental changes technological advancements are paving the way for new evolutionary steps. Complexity Science Living Systems and Reflexing Interfaces New Models and Perspectives is a collection of research provided by academics and scholars aiming to introduce important advancements in areas such as artificial intelligence, evolutionary computation, neural networks, and much more. This scholarly piece will provide contributions that will define the line of development in complexity science.

## **Principles of Quantitative Living Systems Science** James R.

Simms, 1999-04-30 The book documents the development of the fundamental principles and laws for living systems sciences. It identifies information, genetic, biochemical, and neural with the same precision as other fundamental concepts such as length, time, mass, temperature, and energy. It establishes units of measure for information and establishes a formal relationship among behavior, structure, organization, information, and energy. This is the first in a series of three books.

## **Geochemistry**

**International**, 2006 **Life and the Physical Sciences** Harold J. Morowitz, 1963 *Introduction to a Biological Systems*

Science Edward H. Bloch, United States. National Aeronautics and Space Administration, 1971 *Materials Science and Engineering Technology* Zhang Mei, 2014-06-30 Selected peer-reviewed papers from the 2014 International Conference on Materials Science and Engineering Technology MSET 2014 June 28-29 2014 Shanghai China

**The Chemistry of Hydroxylamines, Oximes and Hydroxamic Acids, Volume 2** Zvi Rappoport, Joel F. Lieberman, 2011-04-11 The most complete resource in functional group chemistry. Patai's Chemistry of Functional Groups is one of chemistry's landmark book series in organic chemistry. An indispensable resource for the organic chemist, this is the most comprehensive reference available in functional group chemistry. Founded in 1964 by the late Professor Saul Patai, the aim of Patai's Chemistry of Functional Groups is to cover all the aspects of the chemistry of an important functional group in each volume with the emphasis not only on the functional group but on the whole molecule.

**Supramolecular Chemistry** Jonathan W. Steed, Jerry L. Atwood, 2000-10-11 This book provides a thorough introduction to the field, covering both the theory behind the subject and how the theory is applied, and also includes coverage of the more important techniques needed by supramolecular chemists.

**The Science of Life** Paul A. Weiss, 1973 **Proceedings**, 1989 *A Text-book of physiological chemistry* Olof Hammarsten, 1893 *A Textbook of Physiological Chemistry* Olof Hammarsten, 1893 **Industrial Hygiene Engineering & Control, 552: Student manual, [Section 8** National Institute for Occupational Safety and Health. Division of Training & Manpower Development, 1979 **Chemist & the Environment** Institute of Chemistry, Ceylon. Session, 1992

**Pharmaceutical Record**, 1888 **English Mechanic and Mirror of Science**, 1875 **CEER, Chemical Economy &**

*Engineering Review*, 1982    English Mechanic and World of Science, 1873    **The Journal of Orgonomy**, 1979

*Opportunities in Chemistry* Committee to Survey Opportunities in the Chemical Sciences, 1985-01-15 Opportunities in Chemistry is based on the contributions of hundreds of American chemists in academia and industry and should be taken as the best available consensus of the chemical community regarding its intellectual frontiers and the economic opportunities that lie beyond them says Science This volume addresses the direction in which today's chemical research is heading including recent developments technological applications and the ways advances in chemistry can be used to improve the human condition In addition the book examines economic and political implications of chemical research and lists resources for basic research and education in the chemical sciences

The book delves into The Chemistry Of Living Systems. The Chemistry Of Living Systems is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into The Chemistry Of Living Systems, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to The Chemistry Of Living Systems
- Chapter 2: Essential Elements of The Chemistry Of Living Systems
- Chapter 3: The Chemistry Of Living Systems in Everyday Life
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- Chapter 5: Conclusion

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