

Natural Zeolites: Structure, Classification, And Emerging Application Trends

Ana Rakviashvili

E-mail: ana.rakviashvili148@ens.tsu.edu.ge

Institute of Physical and Analytical Chemistry, School of Exact and Natural Sciences,

Iv. Javakhishvili Tbilisi State University,

I. Chavchavadze Ave 1, 0179, Tbilisi, Georgia

In the present paper, natural zeolites, their structure, classification, and characteristic features are discussed. The history of zeolite research is also described.

An important part of the paper is devoted to the application of natural zeolites in modern technologies, including adsorption processes, wastewater treatment, remediation of soils contaminated with oil, agriculture, medicine, and construction. The presented material confirms the multifunctionality and practical significance of natural zeolites.