Special Issue

Geopolymer-Derived Zeolite or Ceramics

Message from the Guest Editor

Geopolymers have emerged as one of the most promising inorganic non-metal materials over the past few years due to their remarkable advantages. They are considered a new precursor to zeolite and ceramics. The zeolite can be introduced to geopolymer-matrix by directly adding or by hydrothermal treatment of pure geopolymer or synchronous generation with geopolymer. The geopolymer–zeolite composites have attracted lots of attention as they can combine the advantages of geopolymers (excellent mechanical properties, easy forming, etc.) and zeolite (high surface area, high porosity and pore volume, etc.). Furthermore, ceramics or ceramics-matrix composites can be obtained after high-temperature treatment of geopolymer-matrix. Comparing with polymer-derived ceramics, geopolymer-derived ceramics showed significant advantage such as low cost, high ceramic yield, low shrinkage, and so on. Therefore, further understanding (fabrication, characterization, application, etc.) in both the geopolymer-derived zeolite or ceramics is meaningful and necessary to explore the potential of geopolymer precursor matrix materials.

Guest Editor

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Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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