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Geopolymer-Derived Zeolite or Ceramics

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Message from the Guest Editor

Dear Colleagues,

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.

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