

Special Issue

Sustainable Remediation Processes Based on Zeolites

Message from the Guest Editor

Zeolites are crystalline hydrated aluminosilicates characterised by a three-dimensional network of tetrahedral (Si,Al)O₄ units that form a system of interconnected pores, which makes these minerals very useful in many applications. Natural and synthetic zeolites can be used for mine water remediation and the treatment of acid mine drainage as well as the removal of ammonium from contaminated solutions and heavy metals from polluted water. Several remediation technologies based on zeolites have also been developed in order to clean up contaminated soils. Some techniques lean towards heavy metal immobilization through the addition of these reactive minerals that alter solid-phase partitioning of the metal contaminant, thus reducing their bioavailability. This Special Issue on “Sustainable Remediation Processes Based on Zeolites” invites research or review papers focused on the development or application of natural and synthetic zeolites for soil and water remediation. It aims to collect manuscripts describing up-to-date advances in remediation processes based on these very useful minerals as well as to show recent experimental works within this area.

Guest Editor

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Deadline for manuscript submissions

closed (15 February 2021)



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