Special Issue

Magnetic Nanoparticles in Green Manufacturing for Sustainability

Message from the Guest Editors

In recent years, magnetic nanoparticles (MNPs) have emerged as a promising technology in the field of green manufacturing. This innovation has the potential to revolutionize the way products are manufactured, making the process more sustainable and environmentally friendly. One of the major benefits of MNPs is that they can be used as catalysts in chemical reactions, allowing for the production of products with fewer waste products and lower energy consumption. The aim of this Special Issue of *Processes* is to present the state-of-the-art applications of nanoparticles for green manufacturing, including both experimental and numerical studies. Advanced research for the recovery and reusability of MNPs in order to save resources and reduce the amount of waste produced in the manufacturing process is also welcome. In addition, innovative methods for the production of biofuels as well as cleaning and purifying contaminated water and soil procedures by using MNPs are also welcome. Contributions that study the production of biofuels, waste reduction, resource conservation, and pollution control using MNPs are also very much appreciated.

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