Special Issue

Cu and Cu-Based Nanoparticles: Applications in Catalysis

Message from the Guest Editors

Metal nanoparticles exhibit improved optical, electronic, magnetic, chemical, and biological properties when compared to their bulk correspondents. Copper is an earth-abundant and inexpensive metal with high electrical and thermal conductivity, high corrosion resistance, good ductility, malleability, and tensile strength. Due to such properties, copper based nanomaterials can effectively replace rare and expensive noble-metal catalysts commonly employed in commercial chemical processes. Copper-based nanocatalysts have a number of applications, including gas-phase reactions, Ulmann reactions, cross-coupling reactions, A3-coupling reactions, azide-alkyne cycloaddition, photocatalysis, and electrocatalysis. This Special Issue of the journal Applied Sciences "Cu and Cu-Based Nanoparticles: Applications in Catalysis" aims to cover recent advances in the development of copper-based nanosized particles for different catalytic applications.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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