Special Issue

Recent Breakthroughs with Layered Double Hydroxides

Message from the Guest Editors

Layered double hydroxides (LDHs) are two-dimensional materials with widely tunable properties since many organic or inorganic species can be easily intercalated inside the interlayers, thus inducing changes in their porosity, morphology, charge transport, hydrophilicity/hydrophobicity, etc. Furthermore, LDHs are low-cost materials with water-resistant structures, good thermal stabilities, and environmentally-friendly natures and biocompatibilities. All these characteristics make possible LDH utilization in many different fields, such as adsorbents for removing harmful anions, catalysis, separation technology, and photochemistry, as polymer additives, as sensors and biosensors, as anticorrosion coatings, drug carriers for pharmaceutically active compounds and in cancer therapy. This Special Issue aims to highlight the most recent applications involving LDHs with particular interest in the fields of energy storage, photocatalysis, electrocatalysis, heterogeneous catalysis, and sensing.

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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