



Recent Breakthroughs with Layered Double Hydroxides

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Deadline for manuscript
submissions:

closed (30 June 2018)

Message from the Guest Editors

Dear Colleagues,

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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Message from the Editor-in-Chief

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