Special Issue

Metal Carbonates—from Amorphous Carbonates to Carbonate Complexes

Message from the Guest Editor

Carbonic acid, along with its bicarbonate and carbonate salts—particularly calcium and magnesium derivatives—plays a crucial role in Earth's carbon cycle. Carbonates are also important technological materials, used in large quantities by the construction industry as a cement base and decorative stone, and by the pharmaceutical industry as an antacid. The amorphous calcium carbonate has a key role in the selection of calcium carbonate polymorphs (calcite, vaterite, and aragonite). The coordination ability of carbonate and bicarbonate ions can open new perspectives to prepare various metal complexes. The protonation, multidenticity, substitution, and release of the coordinated carbonate ion, and the formation of pyrocarbonates and other condensed carbonic acid derivatives open new perspectives in inorganic complex chemistry.
This Special Issue deals with all the chemical aspects of carbonic acid and inorganic carbonate salts, including condensed (pyro) carbonate and percarbonate compounds and carbonate complexes of metals with various ligands.

Guest Editor

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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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