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Advanced X-Ray Crystallographic Structural Studies in Inorganic Chemistry

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2020)

Message from the Guest Editor

Dear colleagues,

Traditionally, Inorganic Chemistry deals with the synthesis, reactivity, structural studies and properties of new inorganic and coordination compounds. There can be no doubt that when a compound has to be identified there is nothing to beat a crystal structure determination. A modern trend is the discovery of correlations between structural features (at both molecular and supramolecular levels) and properties. The aim of this Special Issue is two-fold: (1) The presentation of advanced crystallographic analysis tools, such as the Hirshfeld Surface Analysis and machine learning algorithms; and (2) The use of the obtained knowledge from crystallographic studies to design new synthetic strategies and isolate inorganic compounds, coordination complexes and materials. All types of inorganic materials, both molecule-based and atom-based are expected to be covered. The Crystallographic Analysis methods can involve single crystals and powders. I kindly invite you to contribute papers in the above mentioned areas which will allow your research to have an impact on the next generation trends in this interesting and interdisciplinary field.

Guest Editor
Dr Vassilis Psycharis

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Editor-in-Chief

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Message from the Editor-in-Chief

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.

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