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Inorganic Materials for Fuel Cell Electrocatalysts

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Deadline for manuscript submissions:
closed (15 December 2022)

Message from the Guest Editors

Dear Colleagues,

With the sharp increase in the consumption of limited fossil fuels, the issues of serious air pollution and energy shortages have gained global attention, and the development of sustainable and clean energy conversion technologies has become a priority. Among these various technologies, methods, and electrochemical devices, fuel cells have been recognized as the most promising candidate for stationary, portable, and automotive objects, while low efficiency, unsatisfactory stability, and high investment costs limit the real application of fuel cells. Along this theme, inorganic materials have been intensively used as fuel cell electrocatalysts because of their significant advantages, such as their large surface area, abundant active sites, and excellent electrocatalytic activity and stability.

This Special Issue will be centered on providing key insights in achieving highly active, stable, and sustainable inorganic materials for fuel cell electrocatalysts. We invite papers on the exploration and investigation of innovative inorganic electrocatalysts and their integration in highly efficient fuel cells.

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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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