Special Issue

Virus Functional Modification Based on Biomimetic Mineralization

Message from the Guest Editors

Viruses, as a natural nanoplatform with highly symmetrical architectures, have immense potential in chemistry, materials science and medicine. The polyvalent interfacial ligands of viruses are feasible for the programmable assembly and materials synthesis. In the meantime, material-based virus engineering also enables the on-demand biological or physicochemical modification of viruses. Recent years (especially during the ongoing COVID-19 pandemic) have witnessed a growing interest in studies of the chemical modification of viruses. Herein, this Special Issue will be focused on the design and construction of virus-based inorganic-organic complexes via biomimetic strategies and their corresponding applications. In addition, we also welcome studies of the interplay between inorganic nanomaterials and microbes that range in size from nanometers to microns, such as animal viruses, plant viruses, phages, and bacteria, etc. This Special Issue will highlight the progress in the field of the design and application of organism-hybrid materials using biomineralization-inspired engineering.

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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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