

Special Issue

Metal Catalyst Discovery, Design and Synthesis, 2nd Edition

Message from the Guest Editor

Catalysts serve as the cornerstones of the chemical and energy industries. With the growing demand for novel chemical transformations and energy-efficient catalytic processes, the discovery of innovative catalysts has become a reality rather than a distant aspiration.

At the atomic scale, the precise design of active metal sites governs reaction mechanisms and catalytic performance, underscoring the importance of an integrated framework of discovery–design–synthesis for advanced catalyst development.

This Special Issue, titled “Metal Catalyst Discovery, Design and Synthesis, 2nd Edition”, will delve into the multifaceted realm of catalyst design, highlighting state-of-the-art experimental and computational strategies for the de novo design and optimization of catalysts for enhanced activity, stability, and selectivity. We welcome contributions across a broad thematic scope, including mechanistic studies, process development, innovative synthetic strategies for catalyst design, and advances in reaction engineering.

Guest Editor

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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.

Editor-in-Chief

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