

Special Issue

Innovations in C1 Chemistry Catalysis

Message from the Guest Editors

We invite researchers to submit papers for a special issue on C1 chemistry catalysis, a crucial area addressing global challenges like sustainable energy, environmental protection, and resource efficiency. Significant advancements are being made in converting carbon-containing molecules—such as methane, carbon dioxide, carbon monoxide, and methanol—into valuable chemicals and fuels. Submissions that explore recent innovations in catalyst design, particularly involving novel materials like metal-organic frameworks (MOFs), perovskites, and single-atom catalysts that enhance catalytic activity and stability are welcomed. Contributions that improve our mechanistic understanding through in situ and operando characterization techniques are highly valued, supporting the design of catalysts for mild conditions. Join us in shaping the future of C1 chemistry catalysis!

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