



Single-Atom Catalysts (SACs)

Guest Editors:

Dr. Leiduan Hao

College of Chemical Engineering,
Beijing University of Chemical
Technology, Beijing 100029,
China

Dr. Jilei Xu

Dalian National Laboratory for
Clean Energy, Dalian Institute of
Chemical Physics, Chinese
Academy of Sciences, Dalian
116023, China

Deadline for manuscript
submissions:

closed (15 March 2024)

Message from the Guest Editors

Single-atom catalysts (SACs) featuring isolated metal atoms dispersed on supports with maximized atom utilization have received extensive attention in various catalytic processes. In recent years, with the rapid development of SACs and novel technologies, tremendous progress has been made in this area, ranging from their preparation and characterization to the application of SACs. This Special Issue will focus on these different aspects; in particular (but not limited to) the development of new methods for efficient, economic, or large-scale preparation of SACs, characterization or theoretical analysis of the co-ordination structure of single-metal sites, applications of SACs in the areas of thermo-, electro-, or photocatalytic energy conversion reactions, biomass conversion, batteries and beyond. Both review and original research articles related to the above scope are welcome.

