



Atomic Electrocatalyst of Efficient Energy System

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Deadline for manuscript
submissions:

closed (31 May 2023)

Message from the Guest Editor

Atomic electrocatalysts (AECs), which include single/dual-atoms and nanoclusters with the exposed active sites at atomic level, have emerged as emerging frontier in the field of heterogeneous catalysis and materials research account for its optimized selectivity and catalytic activity attributed to homogeneous catalytic site with definite low atomic coordination number. Although remarkable development has been made in the rational design and preparation, as well as potential application of AECs in recent years, there are still some key elusiveness needs to insight:

The anchoring mechanisms and regulation at atomic-level precision for different types of supported AECs; the determination of real active sites in dynamic structure evolution between the catalytic centers and reactive intermediates; the low-cost industrialization method to improve the production and develop multi-functionality of AECs; the practical application of AECs to expand sustainable energy technologies.

The joint efforts of researchers from all over the world are needed to address the above existing challenges. We welcome your original papers to quickly share your research results in Our Special Issue.





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Message from the Editor-in-Chief

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