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Two-Dimensional Materials for Electrocatalysis

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Message from the Guest Editors

Dear Colleagues,

The ideal electrocatalysts often need high stability, high electrical conductivity, suitable reactivity, and a large surface area. In this regard, two-dimensional (2D) materials are the promising candidates because they possess these desired properties. It, therefore, presents an exciting field in which the 2D materials are designed for specific catalytic reactions, such as water splitting, synthesis of value-added commodity chemicals, CO_2 reduction and ammonia production. In addition, 2D materials can be carefully controlled by engineering defects, stain, and components to optimise their catalytic performance through theoretical and experimental studies. The interests of this hot topic motivate this Special Issue, which is to cover the recent progress and trends in designing and evaluating advanced 2D materials for electrocatalytic applications.