Special Issue

Fiber Catalysts for Efficient Energy and Environmental Catalysis

Message from the Guest Editors

Fiber catalysts, including fiber-supported catalysts, nanofiber catalysts, and monolithic fiber structure catalysts (e.g., paper-type catalysts), possess notable advantages such as low density, short diffusion lengths, large geometric surface areas, and high contact efficiencies. Consequently, they have garnered significant attention for their broad applications in energy and environmental catalysis, including fuel cells, volatile organic compound (VOC) treatment, nitrogen oxide (NOx) reduction, and soot elimination. Nevertheless, to meet the practical demands of fiber catalysts in real-world applications, it is crucial to develop more efficient structure–function integrated fiber materials that fully exploit the synergistic interactions between carriers and active components. Furthermore, systematic investigation into the mechanisms underlying the stability enhancement of fiber catalysts is necessary.

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