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Research Progress of Reforming Catalysts

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Message from the Guest Editors

Hydrogen is expected to become a widespread commercial energy in the areas of transportation, stationary and distributed power generation for solving global warming problems. Although reforming technologies are very matured for the mass production of hydrogen, there are still remaining R&D issues for various applications: small-scale on-site hydrogen production systems for refuelling stations, distributed fuel cell-based power generation, etc. In addition, the use of various types of fuels, such as natural gas, naphtha, alcohols, biogas, etc., requires the optimal design of catalysts and reaction conditions. Thus, the development of effective catalysts is essential for the wide adoption of hydrogen energy. This Special Issue will cover recent progress and trends in designing, synthesizing, characterizing and evaluating catalysts for hydrogen production processes, and therefore, hydrogen producing and purifying catalyses, such as various reforming reactions, water-gas-shift reactions and CO removal reactions, will be interesting research topics.