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Editorial

Preface to Special Column on Electrocatalysis

Energy is the most important problem that we are facing. The limited fossil fuel reserves and the air pollution caused by the consuming of fossil fuels force the governments, industries and academia to look for renewable energies and their conversion-storage devices. Some novel concepts based on the electrochemical reactions have been considered as promising solutions to help solve energy problems and improve the quality of our lives. Electrocatalysis plays a critical role in the advanced electrochemical energy systems such as fuel cells, metal-air batteries, and electrolyzers.

This Special Column aims to cover recent progress and trends in advanced electrocatalysts for various electrochemical reactions including oxygen reduction reaction, hydrogen oxidation and evolution reactions, oxygen evolution reaction, and methanol oxidation. It includes 12 high quality papers, among which 6 are reviews and perspective. Contributors are from China, North America, Europe, and South Korea. We would like to thank all the authors for their great contributions and referees for their time reviewing the manuscripts. I believe these excellent papers collected in this Special Column will make significant contributions to the electrocatalysis community.

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