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Editorial

Preface to Special Issue for 2nd Chinese Symposium on Photocatalytic Materials (CSPM2)

With the ever-increasing consumption of fossil fuels and the increment in environmental pollution problems, developing sustainable and renewable energy sources and environmentally friendly purification methods has become an appeal investigation all over the world. Photocatalysis can provide promising solutions to these issues, by utilizing solar light to reduce CO₂ into hydrocarbon fuels, to split water into hydrogen and to mineralize organic pollutants into inorganic substance. However, a huge obstacle to the application of this technology is its low photocatalytic efficiency. Further improvement on the performance of photocatalytic materials is urgently needed. Therefore, this investigation topic was within the scope of The 2nd Chinese Symposium on Photocatalytic Materials (CSPM2) held at Nanjing Jinling Riverside Hotel, Nanjing, China on November 8–11, 2019. This conference was organized by Nanjing University, Huaibei Normal University, Changsha University, Fuzhou University and Wuhan university

of Technology, and supported by National Natural Science Foundation of China (NSFC), Nanjing University, Huaibei Normal University, Changsha University, Wuhan University of Technology, Beijing Perfectlight and others. There are more than 420 experts and students attending this symposium, and 12 plenary lectures, 17 keynote lectures, 9 invited lectures, 12 oral lectures and 115 posters presented. Finally, 18 excellent posters were selected.

The theme of CSPM2 international conference was to create an exchange chance for overseas Chinese and local experts, to identify the key scientific issues, to discuss the update advancement and to facilitate scientific exchange on photocatalytic materials. The following topics were addressed at the CSPM2 conference:

1. S-scheme heterojunction photocatalyst
2. Z-scheme heterojunction photocatalyst
3. Photocatalytic hydrogen production

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4. Photocatalytic CO₂ reduction
5. Photocatalytic pollutant degradation
6. Photoelectrocatalysis
7. Electrocatalysis
8. Perovskite solar cells
9. Other related research.

This special issue of *Chinese Journal of Catalysis* (CJC) contains 24 papers, including 1 review paper and 23 research papers. Most of them were presented at the CSPM2 conference. All the published papers were strictly peer reviewed according

to the standard of CJC. As the Guest Editors, we would like to thank all the authors, reviewers, and the editorial staff of CJC for their kind support.

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