Special Issue

Porous Photo/Electrocatalytic Materials

Message from the Guest Editor

Environmental and energy issues are two major problems related to human survival in the future. Photocatalytic or electrocatalytic technology can provide a very promising solution for mankind to solve the above two problems. Pore-making is an important method to increase the active sites of the photo/electro catalysts and, by controlling the pore size, the diffusion of reactive species during the catalytic reaction can be effectively ensured, that is, the reaction kinetics and diffusion kinetics are simultaneously promoted in catalytic reaction. The Special Issue aims to collect the latest progress and prospects in the field of porous photo/electro catalysts, including the design, synthesis, modification and application of porous catalysts. On the one hand, the synthesis strategy of porous photo/electro catalysts is the key to obtaining such novel materials; on the other hand, the efficiency of pure catalysts will be restricted by their intrinsic characteristics, even if they are porous, so modifications such as doping, loading precious metals, and constructing heterojunctions for porous catalysts are necessary to improve photo/electro catalytic efficiency.

Guest Editor

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