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Multifunctional Polymers for Photoelectrocatalytic Applications

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Message from the Guest Editor

Recently, photocatalytic technology, including photocatalytic wastewater treatment, water splitting, reduction in CO_2, and nitrogen fixation, has been widely studied. The photocatalytic system is mainly composed of photoelectrodes (photoanodes or photocathodes), counter electrodes, electrolytes, and external circuits. The most important factor affecting photoelectrocatalytic efficiency is electrode material. To date, various materials have been used as electrodes, such as transition metal sulfides, metal oxides, and metal–organic frameworks. Although polymer-based electrode material has also been reported, its performance needs to be further improved. Therefore, it is necessary to combine conductive polymers with other nanomaterials and then use them for photoelectrocatalytic applications.

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