

## Special Issue

# Photo-Excited Charge Carrier Dynamics in Photocatalysis

### Message from the Guest Editor

Since the industrial revolution, the rapid development of civilization has enriched our lives, but the haphazard developments have caused severe environmental pollution. Photocatalysis by semiconductor materials is one of the promising methods to degrade the aforementioned pollutants, such as chemical contaminants and microorganisms, included in industrial and domestic wastewaters. Because one of the most important points for achieving a high-efficiency photocatalytic reaction is that a large number of photo-excited charge carriers must be accumulated at the surface of the photocatalyst, which can be used for the degradation of the target pollutants, it is necessary to understand the charge carrier dynamics in photocatalysis for the high photocatalytic activity. This includes charge transport from the bulk to the surface, charge transfer at the interface, charge recombination, and so on. All types of research studies, using any experimental techniques, related to the charge carrier dynamics in photocatalysis, will be considered for this Special Issue.

### Guest Editor

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### Deadline for manuscript submissions

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