

## Special Issue

# Recent Advances in Photolysis and Photodegradation

### Message from the Guest Editor

Photolysis is a chemical process that occurs when molecules absorb photons and degrade into smaller units. This Special Issue aims to cover the photodissociation/photofragmentation topic for biomolecular and non-biomolecular systems. A particular example of such a bioprocess is the photolysis of water during photosynthesis, the biophotolysis production of hydrogen, etc. Another important point is the photosensitized degradation of chemical substances which do not absorb light themselves, but become subjected to photolytic degradation. Photodegradation is a process associated with the turnover of colored photolabile compounds in ecosystems. For this reason, the photodegradation of chemical compounds and its effect on the environment are explored in this Special Issue, particularly the photodegradation of drug substances and their negative effect on organism. The process of photolysis is not restricted to visible light only, but may occur under ultraviolet and X-ray radiation, as well as infrared multiphoton irradiation. Both theoretical and experimental studies are welcomed to be published in the Special Issue.

### Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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