

Special Issue

Electron Paramagnetic Resonance in Photocatalysis

Message from the Guest Editor

Photocatalytic reactions mostly involve species carrying unpaired electrons. These include electron-hole pairs, trapped charge carriers, paramagnetic redox metal centres, surface defects, organic radicals, as well as reactive oxygen species. These systems can be systematically interrogated, probed, and studied using electron paramagnetic resonance (EPR) and hyperfine spectroscopies. These techniques are capable of providing information on the identity, chemical composition, and dynamics of the paramagnetic centres (and their surroundings) involved in the photocatalytic events. This Special Issue aims to showcase current scientific developments in the area of EPR spectroscopy applied to photocatalysts used for environmental remediation, clean energy production, and chemical synthesis/processing. The Special Issue is open to both original research articles as well as extended reviews.

Guest Editor

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