

Special Issue

NanoBio Hybrids and Photocatalysis

Message from the Guest Editor

Through billions of years of evolution, biological material has evolved to give us the amazing variety that exists today. Since the advent of biotechnology, we have been able to redesign enzymes and other biological components to fit any desired function. A different scientific discipline altogether, nanotechnology, has also seen a huge jump in the past 30 years. The ability to design, synthesize, and modify nanomaterials, and to further use them for our needs has contributed to a variety of scientific fields that have changed our world. These materials have unique and tunable optical, electronic, and catalytic characteristics, and are part of modern technology as it exists today. The use of bio-based materials in conjugation with nanomaterials or electrodes opens a new route for bioactivation and the construction of novel devices. Those nano-bio hybrids can lead to new functions or allow new triggers to enable biocatalytic reactions. This Special Issue aims to cover recent progress and trends in designing nano bio interfaced systems and satellite topics, such as biocatalysis and photocatalysis.

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