

Special Issue

Trends in Biocatalysts Technology

Message from the Guest Editors

Biocatalysts are of great importance in the industry due to their high selectivity and ability to work in mild conditions, including water as solvent, moderate temperatures and pH. High selectivity in combination with mild conditions results in a few byproducts, and together with the catalyst itself being renewable, this often makes biocatalysis an environmentally friendly approach. Despite these benefits, however, breakthrough technologies are still required to overcome a number of limitations regarding volumetric productivity, product titer, stability, and operational costs, among others. Current research is focused on discovering novel enzymes, but also on nucleic acids and other biomolecules as catalysts. On the other hand, whole cells and even microbial consortia are also used for the conversion of a broad variety of raw materials in high-value products. In this Special Issue, we invite submissions that investigate diverse strategies, such as novel enzyme discovery, immobilization of enzymes or cells, biomolecular engineering, metabolic engineering, and new technologies for the development of biocatalysts addressing the future of the industrial bioprocesses.

Guest Editors

Assoc. Prof. Carl Grey

Division of Biotechnology, Department of Chemistry, Lund University, Naturvetarvägen 14, 22100 Lund, Sweden

Dr. Javier Linares-Pastén

Department of Chemistry, Lund University, 22100 Lund, Sweden

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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