Special Issue

Cold-Active Proteins and Enzymes

Message from the Guest Editor

Cold-active proteins are characterized by a high catalytic activity and rapid inactivation as low as 30°C. Since the unique feature of cold-active proteins has drawn significant interest from academia and industry over the last few decades, the understanding of cold-active proteins has been ever-increasing. Cold-active proteins, such as proteases and lipases, also have a more significant biotechnological potential compared to their thermophilic counterparts. To utilize their advantages, currently, studies to improve production yield, substrate specificity, and thermostability using fermentation, expression systems including chaperones, site-directed mutagens, molecular dynamics simulation, and structural studies at atomic level are actively ongoing.

This Special Issue, "Cold-active Proteins and Enzymes", of Applied Sciences will cover but is not limited to reviews and recent results regarding the isolation, characterization, engineering, optimization of fermentation of proteases and lipases, structure determination, and applications.

Guest Editor

Prof. Dr. Hak Jun Kim
Department of Chemistry, Pukyong National University, Busan 48513, Republic of Korea

Deadline for manuscript submissions

closed (31 December 2020)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/26831

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)