

Joint Special Issue

Advances in Biomimetic Materials

Message from the Guest Editors

The course of life in living creatures, ranging from single cells to multicellular organisms, relies on complicated but ordered biological processes, including biochemical reaction networks, inter or intra-cellular communications, and information exchange with the external environment. Drawing inspiration from the elegant rules evolved by Nature, scientists from different fields have started to use biomimicries either to decipher the mystery behind minimized complexity or to offer higher performance structures with lower energy input and better cycling. For instance, driven by the curiosity concerning the origin of life, synthetic protocells or artificial cells have been constructed with synthetic materials to disclose how cells emerged on earth from simple building blocks. In addition, the intriguing informational communication between cells and body systems have spurred the development of advanced biomimetic nanomedicines to delivery cargoes in a way mimicking natural cells. Beyond these examples, extensive research is been carried out to introduce a wide variety of biomimetic materials with advanced properties for both fundamental studies and engineering applications.

Guest Editors

Prof. Dr. Zhaowei Chen

Institute of Food Safety and Environment Monitoring, College of Chemistry, Fuzhou University, Fuzhou 350108, China

Prof. Dr. Zhenhua Li

College of Chemistry & Environmental Science, Hebei University, Baoding 071002, China

Deadline for manuscript submissions

closed (31 October 2021)

Participating open access journals:

Molecules

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/72927



Chemistry

Impact Factor 2.4
CiteScore 3.9

mdpi.com/si/73779

