

Special Issue

Bioinspired Materials

Message from the Guest Editors

In 2020, the global consumption of raw materials reached over 90 billion tonnes, while greenhouse gas (GHG) emissions from the production of materials as a share of global GHGs increased from 15% in 1995 to 23% in 2015. The European building construction sector accounts for 42% of total energy consumption, 38% of total greenhouse gas emissions, 50% of extracted materials and 30% of water consumption. Today, it is clear that we need to transition to a circular economy model to lower the pressure on natural resources and to reduce the overall GHG emissions. This is also a prerequisite to achieve the EU's 2050 climate neutrality target. To tackle the impacts of construction and other materials-intensive industries on climate change, we need to find alternative sustainable and resource-efficient materials. For more details, please visit: https://www.mdpi.com/journal/biomimetics/special_issues/J1DZ08WYI5

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