

Special Issue

Advanced Technologies in Improving the Design Life and Durability of Timber

Message from the Guest Editors

Timber is one of most utilized material by humans for buildings, furniture, utility poles, and bridges due to its sustainability, sequestration of carbon during its service life, insulation capacity, mechanical resistance, anti-seismic properties, and its aesthetic aspect. A further advantage of this material is the end-life that is strongly influenced by the treatments or chemical modification applied to the timber for increasing its service life. The disadvantages of this material are mainly due to its organic composition, which can be destroyed by biotic (wood decay) and abiotic (weathering, fire) factors. This Special Issue considers all the measures against biotic and abiotic factors for extending the service life of timber. We welcome contributions from different scientists working with wood, in the different aspects required for extending its service life.

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