

Special Issue

Design, Fabrication and Applications of Steel Structures

Message from the Guest Editors

This Special Issue addresses the comprehensive lifecycle of steel structures, specifically focusing on the integrated themes of Design, Fabrication, and Application. It aims to capture the latest developments and address current challenges in the field. We seek high-quality contributions that explore novel design methodologies, including performance-based, seismic, fire, and sustainable design; optimization techniques; and the application of advanced computational tools such as AI and digital twins. Research on innovative fabrication processes, automation, robotics, additive manufacturing (3D printing), quality control, and the development and use of new high-performance steels (e.g., high-strength, stainless, fire-resistant) is particularly welcome. Furthermore, we encourage the submission of articles that detail pioneering applications, case studies of best practices, advancements in connection design, structural health monitoring, retrofitting techniques, lifecycle assessment, and the role of steel in contributing to the circular economy within construction.

Guest Editors

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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

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