

Special Issue

Seismic Design, Assessment and Retrofit of Steel Buildings

Message from the Guest Editor

This Special Issue aims to promote a close examination and foster a debate on recent advances and future challenges for the seismic design, assessment, and retrofit of steel buildings. The main topics covered within this Special Issue cover the following aspects: New and existing buildings; Industrial buildings; Light-weight structures; Non-structural components; Codification for seismic design, assessment and retrofiting; Seismic resistant steel joints; Cyclic behaviour of members, joints and components; Existing and novel approaches for seismic assessment of new and/or existing structures; Characterization of seismic input; Advanced modelling for seismic performance assessment; Performance criteria; Local and global response analysis; Seismic fragility curves; Seismic retrofiting methods; Loss assessment and risk analysis of existing structures; Experimental tests for response analysis; Shake table and pseudo-dynamic tests for steel components and systems

Please feel free to submit your contributions on any additional topic that could be relevant to the field of steel structures in seismic areas.

https://www.mdpi.com/journal/applsci/special_issues/Seismic_Steel_Buildings

Guest Editor

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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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