

## Special Issue

# Study on Shear Performance of Structure under Concentrated Load

### Message from the Guest Editors

In practical engineering, the application of concentrated loads is extremely widespread, and is mainly reflected in the vibration load (dynamic load) caused by large-scale mechanical equipment on the floor of multi-storey industrial plants and the hanging load (static load) of various equipment on floor or roof structures, such as large display screens hanging from the roof of gymnasiums or other long-span spatial structures. In addition, various accidental explosions and aerial bird strikes on civil aircraft are also classed as concentrated loads. These loads often have a great impact on the original structure, and can even be fatal. The scope of this [Special Issue](#) of *Buildings* encompasses research on the mechanical behaviors and failure mechanisms of the components or joints of new types of structures under concentrated loads. For scholars interested to submit papers to the [Special Issue](#), please click “[Submit to Special Issue](#)” or contact Astoria Yao: [astoria.yao@mdpi.com](mailto:astoria.yao@mdpi.com).

### Guest Editors

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### Deadline for manuscript submissions

closed (30 May 2025)



## Buildings

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## About the Journal

### Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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### Editor-in-Chief

Prof. Dr. David Arditi

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JCR - Q2 (Construction and Building Technology) /  
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