

## Special Issue

# Studies on Behavior of Structural and Nonstructural Components Subjected to Earthquake Hazard from a Sustainability Perspective

### Message from the Guest Editors

Since the 9.0-magnitude Fukushima earthquake in Japan, many engineers have recognized the need to have structural and nonstructural components remain operational or functional under beyond-design-basis events in order to mitigate earthquake damage. Therefore, this Special Issue in the Journal of Sustainability welcomes novel state-of-the-art numerical simulations such as the high fidelity finite element analysis and the experimental tests in accordance with innovative applications in the area of the piping system, electrical cabinets, electrical component/equipment, etc., of nuclear and nonnuclear power plants and critical facility structures. Topics or categories for this Special Issue include, but are not limited to, the following:

- Building–piping (or cabinet) interaction;
- Fragility analysis based on extreme events;
- Soil–structure interaction of nuclear or nonnuclear power plants;
- Seismic performance of electrical equipment (cabinet system) based on shaking table test;
- Mitigation of earthquake damage of structural or nonstructural components under beyond-design-basis events;

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### Guest Editors

Prof. Dr. Bu-Seog Ju  
Dr. Shinyoung Kwag  
Dr. Bub-Gyu Jeon

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### Deadline for manuscript submissions

closed (28 February 2023)



Sustainability

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## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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## Editor-in-Chief

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