

Special Issue

Energy Approach in Earthquake-Induced Soil Liquefaction for a Sustainable and Resilient Society

Message from the Guest Editor

Original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Liquefaction case histories and their interpretation in terms of energy.
- Stress-based versus energy-based liquefaction evaluation compared with actual performance during widely varied earthquake motions.
- Lab tests results on pore pressure build-up, induced shear strain, volumetric strain and other design parameters, interpreted in terms of energy.
- Energy-based liquefaction evaluation versus stress-based evaluation, compared with case histories and model tests.
- Effects of soil type, effective overburden and initial shear stress on energy capacity for liquefaction.
- Liquefaction mitigation measures interpreted in light of energy capacity.
- In situ test parameters versus energy capacity for energy-based liquefaction evaluation.
- How energy demand is compared with energy capacity for liquefaction evaluation with/without numerical analyses.
- Recommendations for design codes for the EBM and case studies.
- Liquefaction-induced seismic base isolation interpreted in terms of energy demand and capacity.

Guest Editor

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Deadline for manuscript submissions

closed (4 July 2024)



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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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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