

## Special Issue

# Structural Analysis and Innovation for Deep Sea Energy Systems

### Message from the Guest Editor

Offshore and deep sea energy systems (including both floating and fixed offshore platforms for oil and gas development; deep sea mining, hydrates, and other mineral resource development; deep sea wind turbine farm systems and wave energy, etc.) have been widely used in offshore and deep sea energy and marine resource development. Due to harsh marine environments and extreme loading conditions, offshore and deep sea energy systems are facing technical challenges in terms of service life and its associated failure issues. This Special Issue will focus on structural analysis and innovation for deep sea energy systems. Topics of interest include, but not limited to, the following: various types of offshore and deep sea energy systems in terms of structure analysis and R&D and innovation, such as fluid–structure coupling and interaction, flow field characteristics, VIV, structural dynamics and vibration, structural optimum designs, defect and failure analysis, risk analysis and fatigue life assessment, numerical analysis, and modeling and simulation; and marine structure complex’s responses to different types of loads, such as wind, wave, current, seabed substrate, etc.

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### Guest Editor

Prof. Dr. Yijun Shen  
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### Deadline for manuscript submissions

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## Journal of Marine Science and Engineering

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## About the Journal

### Message from the Editor-in-Chief

*Journal of Marine Science and Engineering (JMSE*, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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### Editor-in-Chief

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