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Viscoelastic relaxation of Enceladus's ice shell

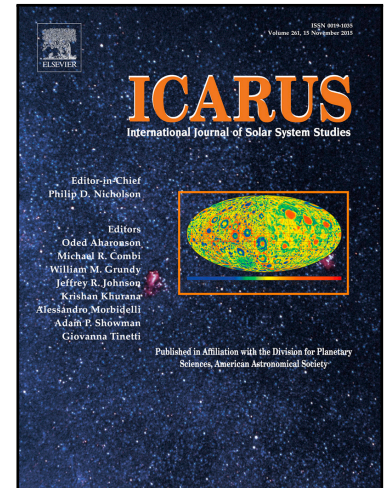
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Highlights:

- We propose a dynamic explanation of non-hydrostatic topography on Enceladus.
- Evolution of the topography is governed by viscoelastic deformation.
- The present-day shape of the ice shell ultimately depends on loading history.
- Viscoelastic relaxation of the moon is slow compared to large icy satellites.
- Low degree topography is consistent with a reduction of ice roots in the past.

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