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An Analytical Solubility Model for Nitrogen-Methane-Ethane Ternary Mixtures

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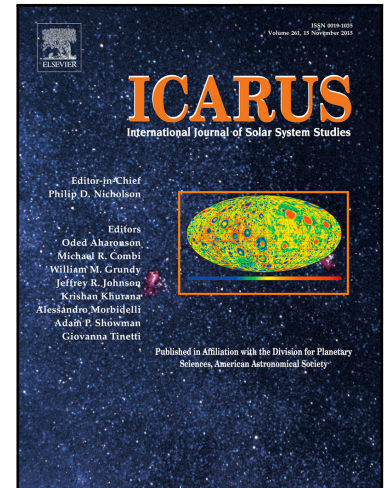
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Highlights

- Solubility equations are constructed to predict the amount of dissolved nitrogen in the Titan seas.
- 1006 points for nitrogen/methane, 604 points for nitrogen/ethane, and 746 points for nitrogen/methane/ethane are gathered.
- The mean absolute error of the new model is under 8% for the binary mixture equation and under 17% for the ternary mixture equation.

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