



Showcasing research from Professor Hanna Vehkamäki's group, Institute for Atmospheric and Earth System Research, University of Helsinki, Finland.

Ruptures of mixed lipid monolayers under tension and supercooling: implications for nanobubbles in plants

Within the hydraulic systems of plants, there exist pressurised gas nanobubbles coated with monolayers of phospholipids (green) and glycolipids (yellow). In this work we have used atomistic simulations to calculate their dynamic surface tensions as a function of temperature and area. Rayleigh–Plesset simulations were then used to predict evolving nanobubble radii under negative pressure.

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As featured in:



See Stephen Ingram *et al.*,
Nanoscale Adv., 2024, 6, 3775.