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Monte Carlo Simulations of confined water

Monte Carlo simulation method is used to detect the dynamic behavior of nanoscale water confined by a SiO2 foundation bed and a gold probe. The distance of the gap between these two solid bondaries is varied during the simulations. This study focuses on the potential formation of finger-like water bridges that may onset when the gap distance becomes very small. We seek to establish correlation between the gap distance and the probability of water bridge formation.

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