



Beitrag ID: 24

Typ: Poster

Dynamics of liquid droplets on switchable substrates –from microscopic to mesoscopic models

Montag, 8. November 2021 17:55 (20 Minuten)

On this poster we analyse the behavior of a liquid droplet on a switchable substrate theoretically. Therefore we performed molecular dynamics and thin film simulations where we switched the substrate once as well as simulations with periodic switching with different frequencies. Also we developed a mapping between the both models. There we observe different mapping regimes when the surface is switched from a lower to a higher wettability in comparison with the reverse process.

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Sitzung Einordnung: Poster session