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Abstract for an Invited Paper
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Wetting of hydrophobic and nanostructured surfaces

ALENKA LUZAR, Virginia Commonwealth University

Understanding wetting phenomena on nanostructured and nanopatterned surfaces is important in materials science and biology. The talk will highlight some of our recent progress on nanowetting of surfaces with topological and chemical heterogeneities using molecular modeling. Examples will include electric, pressure, or chemistry induced dynamic transitions of water on superhydrophobic surfaces to achieve reversible switching between contrasting wetting states.