

عنوان مقاله:

Ultra-Hydrophobic Water

محل انتشار:

دومین کنفرانس بین المللی مهندسی مکانیک و هوافضا (سال: 1396)

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خلاصه مقاله:

When a drop of a viscous fluid is deposited on a bath of the same fluid that is vibrating, it is shown that it coalesces with this substrate or lifts off when the vibration of the surface is larger than g , leading to a steady condition where a drop can be kept bouncing for any length of time, as shown in figure 1. The phenomena that will occur depends on various parameters, such as drop impact acceleration, liquid surface tension, density, dynamic viscosity, gravity, droplet radius and impact speed, bath vibration frequency and amplitude. The effect of different parameters will conclude to a set of conditions which results in a system, called ultra-hydrophobic water which plays important role in chemical micro fluidic applications

کلمات کلیدی:

ultra-hydrophobic, soapy water, loudspeaker, vibrator, small droplets

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