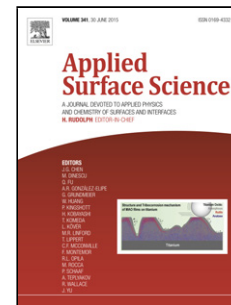


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Pulsed laser ablation and incubation of nickel, iron and tungsten in liquids and air

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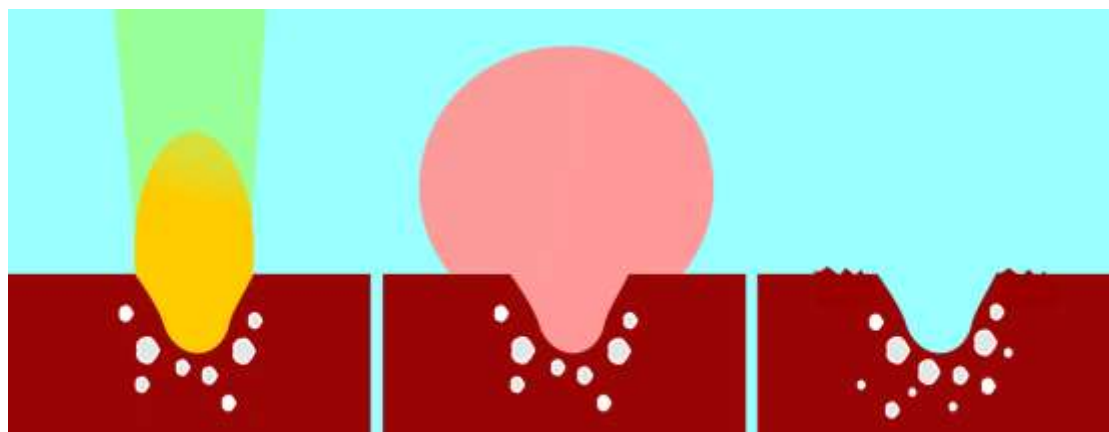
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Graphical Abstract



Highlights

- Laser ablation incubation at air is controlled by thermal properties of the metal.
- Incubation in liquid contact is determined by the mechanical impact on the solid material by the bubble cavitation and the ultimate tensile stress of the metal.

Abstract

Incubation effects in the nanosecond laser ablation of metals exhibit a strong dependence on the thermal and mechanical properties of both the target material and the background gas or liquid. The incubation in air is controlled mainly by thermal properties such as the heat of

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