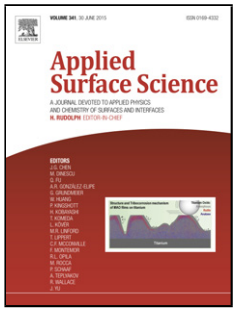

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Growth and shape of indium islands on molybdenum at micro-roughened spots created by femtosecond laser pulses

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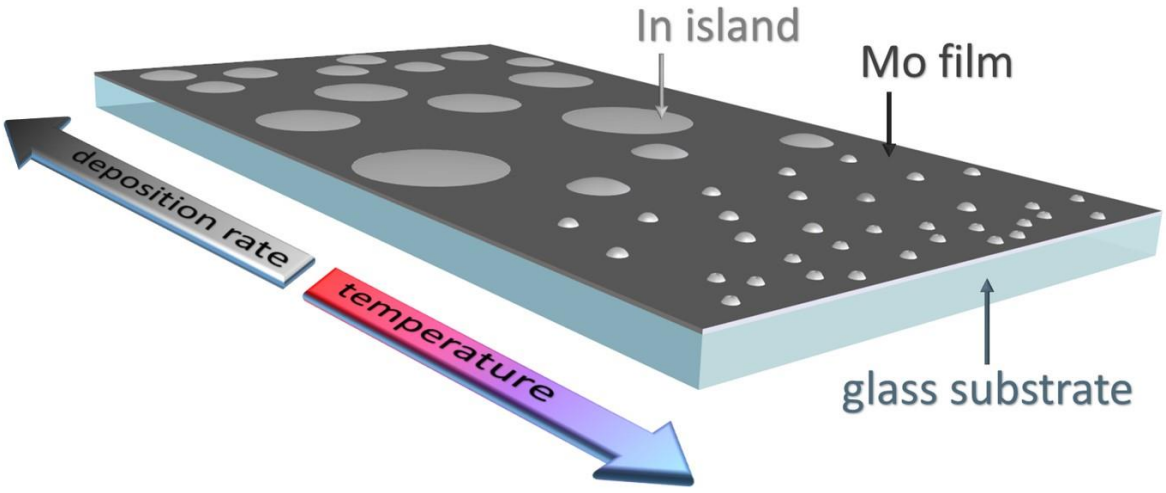
Graphical abstract



Highlights

- The shape and size of indium islands on molybdenum depends strongly on the indium deposition rate and substrate temperature.
- It is crucial to adjust indium island growth parameters to substrate patterning dimensions for growing ordered arrays at high throughput.
- The aspect ratio of indium islands can be influenced not only by the indium deposition rate and temperature, but also by the area ratio of the laser-roughened region and the region covered by an indium island.

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