

Crystalline oxides for mirror coatings

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In this presentation, the progress towards the realisation of crystalline oxide mirror coatings is reviewed.

Cr₂O₃ films on Al₂O₃ is our initial crystalline oxide model system where the relationship between the structural, optical and mechanical properties is investigated. Specifically the role of a lattice mismatch of about 5% on these properties will be reported.

In a second part, the roadmap for the growth of larger area coatings with the new 300 mm molecular beam epitaxy system - that has recently been installed - will be presented.

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