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Growth and structures of monolayer and bilayer CeO_x nanostructures on Au(111)

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Highlights

- The effects of substrate temperature, the flux of Ce atoms and the annealing temperature were studied for the growth of CeOx nanostructures on Au(111).
- Well-defined CeOx nanostructures with monolayer or bilayer thickness could be controlled to grow on Au(111).
- Surface and sub-surface O vacancies on CeOx nanostructures were identified by element-specific STM images.

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