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Title: Phase and structural transformations in annealed copper coatings in relation to oxide whisker growth

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## Highlights

- Coatings prepared by Cu microparticle electrodeposition
- Structural and phase transformation in Cu coatings annealed at 400°C
- Annealing is accompanied by intensive growth of CuO whiskers
- Layered oxide phases (Cu<sub>2</sub>O and CuO) in the coating are characterized.
- Formation of volumetric defects in the coating is demonstrated.

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