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Dislocation structures of Cu electrodes exposed to high fields

Monday 19 September 2022 10:00 (30 minutes)

It was suggested that breakdown might result from collective dislocation effects within a surface of metal electrodes exposed to high electric fields. We applied scanning and transmission electron microscopy to check this assumption. In this talk, I present a picture of the lattice structural defects observed in soft and hard Cu –dislocation dipoles, stacking faults, twins, and grain boundaries.

Topic

Experiments and Diagnostics

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