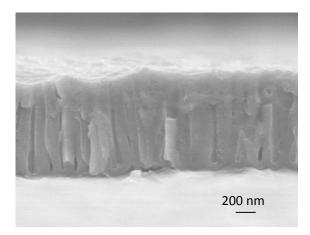
## **Supplementary Information**

## Indirect oxidation of aluminum under an AC electric field

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**Figure S1** SEM image of the anodic oxide film formed via conventional DC anodization in 8 mmol·dm<sup>-3</sup> oxalic acid at 20 °C under 60 V for 30 min.