

# Accepted Manuscript

Annealing atmosphere effect on Ni states in the thermal-decomposed NiO<sub>x</sub> films for perovskite solar cell application

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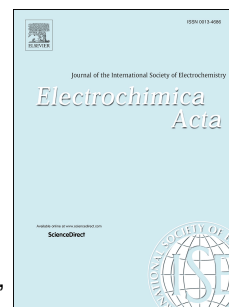
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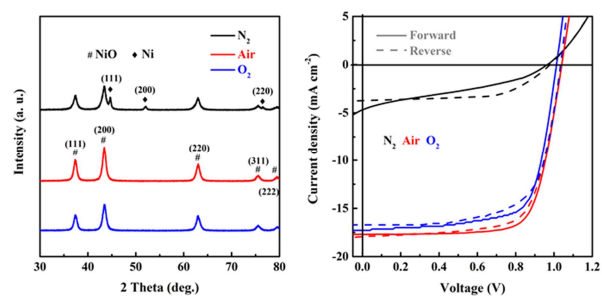
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