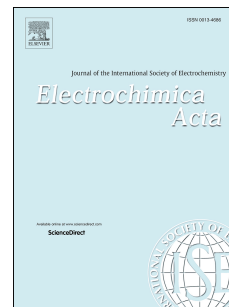


# Accepted Manuscript

Theoretical lifetime extraction and experimental demonstration of stable cesium-containing tri-cation perovskite solar cells with high efficiency

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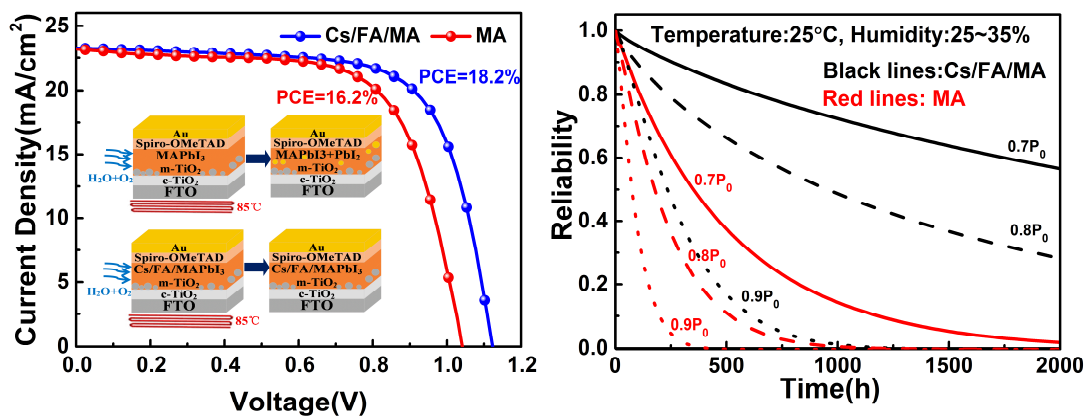
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By employing the mean time to failure method, the reliability analysis of perovskite solar cells demonstrates the humidity and thermal stability of triple-cation perovskite solar cells with a high efficiency exceeding 18% are remarkably improved.



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