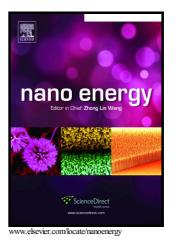
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ACCEPTED MANUSCRIPT

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ABSTRACT

Exploring low-cost, high-efficient and durable electrocatalysts to substitute for Ru, Ir-based noble metal catalysts is of great significance for oxygen evolution reaction (OER), which is in particular

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