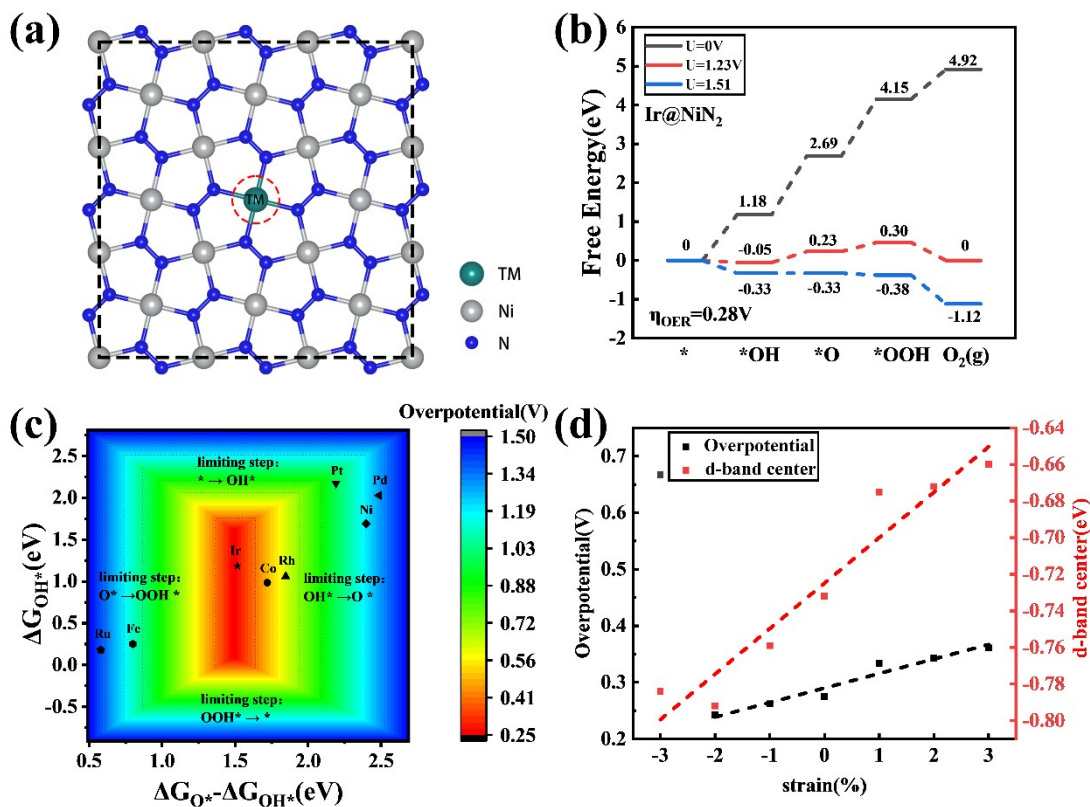


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Single Ir atom embedded into NiN<sub>2</sub> monolayer exhibit high OER catalytic activity with 0.28 eV overpotential. The OER catalytic activity of Ir atom embedded into NiN<sub>2</sub> monolayer can further enhanced by strain.