

Recent Progress in the Development of Advanced Functionalized Electrodes for Oxygen Evolution Reaction: An Overview

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Table S1. Summary of OER electrocatalytic activities of the reported various types of advanced electrodecatalysts.

Synthesis route	Catalysts	Overpotential (mV)	Tafel slope (mV dec ⁻¹)	Current density (mA cm ⁻²)	Medium (M)	Ref.
Electrochemical	(P-PbO ₂)-MnO ₂	~139	196	50	1.63 H ₂ SO ₄	[1]
Electrochemical	Mesoporous Ni film	463	126	10	6 KOH	[2]
Pyrolysis	Ir-based catalyst	243	92	1.40	0.1 HClO ₄	[3]
Self-assembled	2D-NiO/CeO ₂	212	60	10	1 KOH	[4]
Hydrothermal	Trimetallic NiFeCr	225	69	25	1 KOH	[5]
Hydrothermal	Ni@NiCo ₂ O ₄	270	67	10	1 KOH	[6]
Self-assembled	N-Co ₃ O ₄	1180	29.8	10	1 KOH	[7]
Hydrothermal	Mesoporous NiCo ₂ O ₄	~350	43	10	1 KOH	[8]
Hydrothermal	AuNP/CoMoN _x	166	46	10	1 KOH	[9]
Hydrothermal	Carbon-enriched	207	97	10	1 KOH	[10]

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