

Supplementary Information

Nanoporous Gold Surface: An Efficient Platform for Hydrogen Evolution Reaction at Very Low Overpotential

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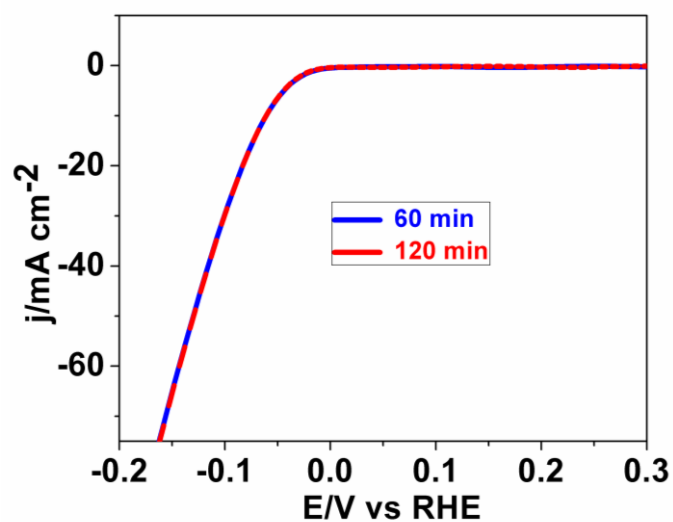


Figure S1. LSV responses (not iR-corrected) of NPGF electrode prepared at 60 and 120 min holding time at 2.0 V.

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Table S1. HER activity comparison of NPGF electrode with other reported catalysts

Catalyst	Onset potential η / mV	Tafel slope / (mV dec ⁻¹)	Exchange current density, j_0 / (mA cm ⁻²)	η @10 mA cm ⁻² / mV	Reference
Au CNT,	110	83.03	–	–	1
Au LCG	102	89.79	–	–	
NPG/WS _x	108	74	0.0012	–	2
O-MoS ₂ /G	120	51	–	–	3
MoS ₂ /MGF	100	42	–	–	4
MoS ₂ /RGO	100	41	–	–	5
MoS ₂ / MoO ₂	104	76.1	–	240	6
NS/NP-G	130	80.5	–	280	7
MoS ₂ /NPG	125	41	–	–	8
CoX (X=S,P)	59, 32	56.2, 54.8	0.016, 0.24	–	9
MoS ₂ /PANI	100	45	–	–	10
MoS ₂ /S-doped carbon	60	72	0.31	160	11
NPGF	48	36	0.126	70	this work

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