

Supplementary Materials

Corrosion engineering for electrode fabrication toward alkaline water electrolysis

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**Supplementary Table 1. List of raw material price for corrosion engineering
(November 2024)**

Materials	Aladdin (99%)	Macklin (99%)	Merck (99%)	Chinese manufacturers (98%)
Fe foam	-	-	-	4167 ¥/m ²
Ni foam	-	-	-	2660 ¥/m ²
NiFe foam	-	-	-	3916 ¥/m ²
Stainless steel	-	-	-	140 ¥/m ²
NiSO ₄	168 ¥/kg	147 ¥/kg	326 ¥/kg	40 ¥/kg
NiCl ₂	196 ¥/kg	191 ¥/kg	1322 ¥/kg	37 ¥/kg
FeCl ₃	104 ¥/kg	71.8 ¥/kg	815 ¥/kg	
CoCl ₂	284 ¥/kg	255 ¥/kg	2000 ¥/kg	37 ¥/kg
NaCl	36 ¥/kg	36 ¥/kg	170 ¥/kg	5 ¥/kg
HCl (37%)	127 ¥/L	-	176 ¥/L	-
H ₂ SO ₄		-	290 ¥/L	-
HNO ₃	137 ¥/L	-	643 ¥/L	-
Na ₂ S ₂ O ₃	70 ¥/kg	35 ¥/kg	334 ¥/kg	9 ¥/kg
H ₂ O ₂ (30 wt.%)	110 ¥/L	124 ¥/L	540 ¥/L	-
SRB	-	-	-	1500 ¥/g
Culture medium	-	1080 ¥/kg	1857 ¥/kg	708 ¥/kg
Raney Ni	718 ¥/kg	706 ¥/kg	2366 ¥/kg	450 ¥/kg