

Materials List for:

Simple Methods for the Preparation of Non-noble Metal Bulk-electrodes for Electrocatalytic Applications

Kai junge Puring^{1,2}, Stefan Piontek¹, Mathias Smialkowski¹, Jens Burfeind², Stefan Kaluza², Christian Doetsch², Ulf-Peter Apfel¹

¹Faculty of Chemistry and Biochemistry, Inorganic Chemistry I, Ruhr-University Bochum

²Fraunhofer Institute for Environmental, Safety, and Energy Technology, UMSICHT

Correspondence to: Ulf-Peter Apfel at ulf.apfel@ruhr-uni-bochum.de

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Materials

Name	Company	Catalog Number	Comments
Iron, powder	Sigma-Aldrich, http://www.sigmaaldrich.com	12310-500G-R	
Nickel, powder	Sigma-Aldrich, http://www.sigmaaldrich.com	203904-25G	H: 351-372-317-412; P: 281-273-308-313-302+352
Sulfur, powder	Sigma-Aldrich, http://www.sigmaaldrich.com	13803-1KG-R	H: 315
Silver Epoxy Glue EC 151 L	Polytec PT, http://www.polytec-pt.de/de/	161010-1	-
Two Component Epoxy Glue Uhu Plus Endfest	Uhu, http://www.uhu.com	-	H: 315-319-317-411; P: 101-102-261-272-280-302+352-333+313-362-
Sulfuric Acid>95%	VWR, https://ru.vwr.com	231-639-5	H: 290-314; S: (1/2)-26-30-45
PTFE Tube	-	-	Prepare 8 cm long peaces
Iron Sleeves	-	-	Connect to the copper wire
Copper Wire	-	-	-
Lapping Film 3µm, 215.9 mm x 279 mm	3M, http://3mpro.3mdeutschland.de	60-0700-0232-8	Polish with a small amount of water
Lapping Film 1µm, 215.9 mm x 279 mm	3M, http://3mpro.3mdeutschland.de	60-0700-0266-6	Polish with a small amount of water
Sand Paper 20 µm, SiC	-	-	-
Sand Paper 14 µm, SiC	-	-	-
Dremel Model 225	Dremel, https://www.dremeleurope.com	2615022565	Use grinding pulley wheel for cutting
Hand Made Pellet Press	Hand Made	-	-
Stirring Plate	-	-	-
GAMRY Reference 600	GAMRY Instruments, https://www.gamry.com	-	-
Gero Furnace 30-3,000 °C	http://www.carbolite-gero.de	-	-
Quartz glass ampule	Hand Made	-	-
Vacuum pump	-	-	-
Hydraulic press	-	-	-