

Materials List for:

## Development and Validation of Chromium Getters for Solid Oxide Fuel Cell Power Systems

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### Materials

Name	Company	Catalog Number	Comments
Sr(NO <sub>3</sub> ) <sub>2</sub>	Sigma-Aldrich	243426	Getter precursor material
Ni(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O	Alfa Aesar	A15540	Getter precursor material
NH <sub>4</sub> OH	Alfa Aesar	L13168	Getter precursor material
Pt ink	ESL ElectroScience	5051	Current collector paste
Pt wire	Alfa Aesar	10288	Current collector wire
Pt gauze	Alfa Aesar	40935	Current collector
Cr <sub>2</sub> O <sub>3</sub> powder	Alfa Aesar	12286	Chromium source
Nitric acid (HNO <sub>3</sub> )	Sigma-Aldrich	438073	Chromium extraction
Potassium permanganate (KMnO <sub>4</sub> )	Alfa Aesar	A12170	Chromium extraction
LSM paste	Fuelcellmaterials	18007	Cathode
YSZ electrolyte	Fuelcellmaterials	211102	Electrolyte
Alumina fiber board	Zircar	GJ0014	Getter substrate
Ceramabond paste	AREMCO	552-VFG	For cell sealing
ICP-MS (7700s)	Agilent	NA	For Cr analysis
Potentiostat (VMP3)	Biologic	NA	For EIS/I-t measurement
FIB (Helios Nanolab 460F1)	FEI	NA	For Nano-sample preparation
TEM (Talos F200X S/TEM)	FEI	NA	For composition analysis