

Materials List for:

Synthesis and Characterization of Fe-doped Aluminosilicate Nanotubes with Enhanced Electron Conductive Properties

Ehsan Shafia¹, Serena Esposito², Elnaz Bahadori¹, Marco Armandi^{1,3}, Maela Manzoli⁴, Barbara Bonelli^{1,3,5}

¹Department of Applied Science and Technology, Politecnico di Torino

²Department of Civil and Mechanical Engineering, Università degli Studi di Cassino e del Lazio Meridionale

³Institute of Chemistry, Politecnico di Torino

⁴Department of Chemistry & NIS Interdepartmental Centre, University of Turin

⁵INSTM Unit of Torino-Politecnico, Politecnico di Torino

Correspondence to: Barbara Bonelli at barbara.bonelli@polito.it

URL: <https://www.jove.com/video/54758>

DOI: [doi:10.3791/54758](https://doi.org/10.3791/54758)

Materials

Name	Company	Catalog Number	Comments
Perchloric Acid (70%) puriss. p.a., ACS reagent, 70% (T)	Sigma Aldrich (Fluka)	77230	Toxic. Use face shield and respirator filter.
Aluminum-tri-sec-butoxide 97%	Sigma Aldrich	201073	Skin and eye irritation. Use eye and face shields and respirator filter.
Tetraethyl orthosilicate (reagent grade 98%)	Sigma Aldrich	131903	Toxic. Skin and eye irritation. Use eye and face shields and respirator filter.
Iron(III) chloride hexahydrate ACS reagent, 97%	Sigma Aldrich	236489	Toxic and corrosive. Use eye and face shields and gloves.
Orange II Sodium salt for microscopy (Hist.), indicator (pH 11.0-13.0)	Sigma Aldrich (Fluka)	75370	Skin and eye irritation. Use gloves and dust mask.