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Citizenship

Egyptian

Education

2011-

PhD, Metallurgical Engineering
Department of Metallurgical Engineering,
University of Utah, USA

2008- 2011

MS, Metallurgical Engineering (GPA = 3.96)
Department of Metallurgical Engineering,
University of Utah, USA

2002-2006

BS, Chemistry (Top Student, 84.3%)
Chemistry Department, Beni-Suef University, Egypt

Teaching Experience

Fall 2010

Teaching Assistant
Department of Metallurgical Engineering,
University of Utah, USA

2007-2008

Teaching Assistant
Chemistry Department,
Beni-Suef University, Egypt

Research Experience

2008 -

Research Assistant
Department of Metallurgical Engineering,
University of Utah

2007-2008

Research Assistant
Chemistry Department,
Beni-Suef University, Egypt

Professional Experience

- Flame Synthesis of Graphene.
- Preparation of CNT by CVD.
- Handling toxic and explosive gases at both high temperature and pressure.
- Analytical and characterization techniques, such as ICP-OES, XRD, XRF, SEM, optical polarizing microscope, AFM, TEM, STM, QEMSCAN, Electron Microprobe, NMR, Mass Spectroscopy, IR, Raman, UV-Visible, TGA and wet analytical chemistry techniques.

Publications:

- 1- M. Y. Mohassab-Ahmed, H. Y. Sohn: *Activity of Iron Oxide in H₂/H₂O Atmosphere Relevant to a Novel Ironmaking Technology*, Metall. Mater. Trans. B, to be submitted 2012.
- 2- M. Y. Mohassab-Ahmed, H. Y. Sohn: *Magnesia Solubility in a Green Ironmaking Technology*, ISIJ, to be submitted 2012.
- 3- M. Y. Mohassab-Ahmed, H. Y. Sohn, Hang Goo Kim: *Phosphorus Distribution between Liquid Iron and Magnesia-Saturated Slag in H₂/H₂O Atmosphere Relevant to a Novel Green Ironmaking Technology*, Ind. Eng. Chem. Res., submitted 2012.
- 4- M. Y. Mohassab-Ahmed, H. Y. Sohn, Hang Goo Kim: *Sulfur Distribution between Liquid Iron and Magnesia-Saturated Slag in H₂/H₂O Atmosphere Relevant to a Novel Green Ironmaking Technology*, Ind. Eng. Chem. Res., submitted 2011.
- 5- M. Y. Mohassab Ahmed: *Sulfur and Phosphorus Distribution between Liquid Iron and Magnesia-Saturated Slag in H₂/H₂O Atmosphere Relevant to a Novel Green*

Ironmaking Technology, Dissertation, University of Utah. ProQuest/UMI, 2011.

(Publication No. 1492327.)

Patents:

- 1- M. Y. Mohassab-Ahmed, H. Y. Sohn: *Method and Device for Microwave Digestion of Inorganic Materials*, Invention Disclosure (U of Utah Technology Commercialization Office), 09/29/2011.

References:

Hong Yong Sohn

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