

Walaa Adel El hamdy

Chemistry Department, Sohag University, Sohag 82524, Egypt

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Education

- **M.Sc.:** “November 2016” in in organic Chemistry (Mixed oxides/Silica composites for catalytic applications) from Chemistry Department, Sohag University, Egypt.

Thesis Title: *Nano-Sized Lanthanides –Iron Mixed Oxides/Silica Composites for catalytic Applications.*

- **B.Sc.** “May 2010” In Chemistry, faculty of science, Sohag University, Egypt with a grade: **Excellent with Honors. (Ranked second** over the whole class).

Experience

- Assistant lecturer for chemistry from 23/11/2016 till now.
- Teaching assistant for chemistry either, physical, analytical or inorganic (practical sections for Science, Pharmacy, Engineering, Education, Agriculture students) starting from 9/2/2012 to 23/11/2016 .

Publications

- 1- Khalil, K.M.S;**El hamdy,W.A.**; Said ,A. El-A. A; _El samahy, A. A.; Porous LaFeO₃/Silica Nano composites via Sol-Gel Mixing Involving Citric Acid .Colloids and Surfaces A: Physicochemical and Engineering Aspects2016,506, 840-848.
- 2- Khalil ,K.M.S;**El hamdy, W.A.**; Said ,A. El-A. A; El samahy, A. A.; Direct formation of spherical LaFeO₃/MCM-41 nano composite catalysts reactive toward gas phase conversion of isopropanol was Submitted and it is now under review .

Research experience and skills

- The nature work in the field of nano materiales gained a multidisciplinary experience in such topics: materials science, adsorption and catalysis.
- Nice experience in different characterizations such as: X-ray diffraction (XRD), FTIR spectroscopy (ATR mode) Transmission Electron Microscopy (TEM) and

Combined Thermo gravimetric analysis–Differential thermal analysis (TGA–DTA) Technique.

- Good experimental and lab experience in the preparation of materials using different methods such as hydrothermal and sol gel methods .
- Excellent experience in N₂ adsorption isotherm and the related analyses Measurement of the N₂ adsorption isotherm at -196°C. Surface area calculation, Assessment of micro and mesoporosity and pore size distribution within the mesoporous range.
- Sufficient experience in Catalytic activity measurements. Account for catalytic reaction yield, reactivity and selectivity at different conditions using Gas chromatography instrument and double beam UV–vis spectrophotometer (Pg T80).
- Ability of solving the technical problems of practical work.
- Good writing report skills

Conferences and workshops:

Walaah .A. El hamdy has attended the “ 12th international conference on chemistry and its Role in Development “ held in Mansoura and Sharm El- Sheikh,Egypt,16-20March 2015

References:

1- Prof. Dr. Kamal Mohamed Khalil

Professor of Nano Chemistry and Surface at Sohag University.

e-mail:kms_khalil@yahoo.co.uk

2- Prof. Dr. Abd El-Aziz A. Said

Professor of Physical Chemistry at Assiut University.

e-mail:aasaid55@yahoo.com

3- Dr. Khaled M.H.Mohammed

Lecture of Physical Chemistry at Sohag University.

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