

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



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شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم
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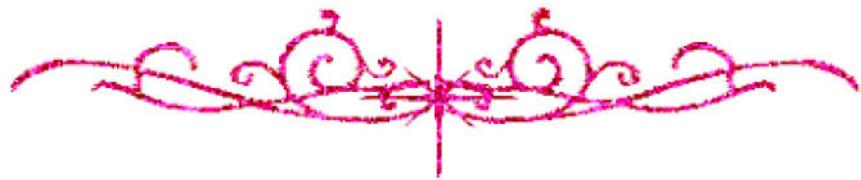
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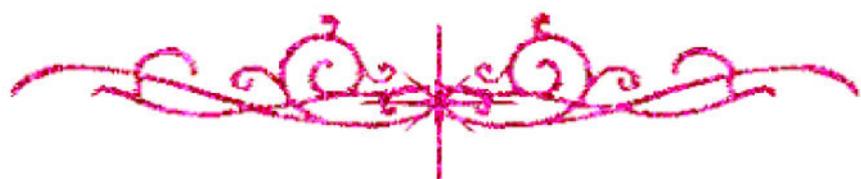


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بالرسالة صفحات

لم ترد بالأصل



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Faculty of Education
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**Preparation, Characterization and Catalytic
Activity Study of Nanosized Fe₂O₃-CuO-MgO
System**

Thesis Submitted

By

Ahmed Mohamed Abdullah Ali

B.Sc., Ed. 2007, Beni-Suef University

For

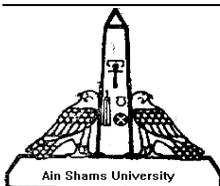
The Degree of

**Master of Teacher's Preparation in Science
(Physical Chemistry)**

To

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Faculty of Education
Ain Shams University
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Chemistry Department

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Under the Supervision of:

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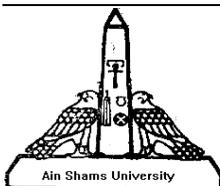
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ABSTRACT

**Preparation, Characterization and Catalytic Activity Study of
Nanosized Fe₂O₃-CuO-MgO System**

By

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11757, Cairo, Egypt.*

This work has been done to prepare and investigate the Fe₂O₃/MgO nanomaterials in the field of alcohol conversion and synthesis of carbon nanotubes and nanofibers. The role of extent of iron oxide loading, different preparation methods, and copper oxide doping has been studied towards ethanol conversion to produce acetaldehyde as a main product and conversion of acetylene to synthesize carbon nanotubes and nanofibers. All prepared nanomaterials have been used as adsorbents for textile dyes from wastewater.

Keywords:

Fe₂O₃/MgO; Nanomaterials; Doping; Catalytic activity; Ethanol Conversion; Carbon nanotubes and nanofibers; Dyes adsorption.

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