

**Ain Shams University  
University College for Women  
Arts, Science, and Education**

**Nanocatalysts Prepared Through Sol-Gel Technique  
For Petrochemicals Industry and Environmental  
Pollutants Removal**

***A Thesis  
Submitted for the Ph.D. degree in science  
(Physical Chemistry)***

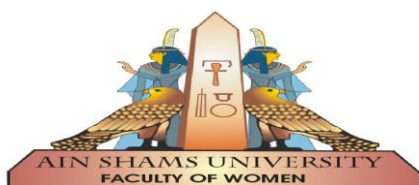
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**2015**



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*APPROVAL SHEET*

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*Board of Advisors Approved*

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**M.Sc. Graduation Date: 2012**

**Ph.D. Graduation Date: 2015**

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# Dedication

*To ..... Professor Dr. Essam Mohammed Ezzo for his  
great supervision and continuous advices.*

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