



Ain Shams University
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Chemistry Department

Carbon Dioxide Removal from Natural Gas Using Nano-Layered Materials

Dissertation Submitted by

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**In Fulfillment of the Requirement for the Philosophy Degree
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for Ph. D. Degree in Chemistry

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَمَا أَرْسَلْنَا مِنْ الْعِلْمِ إِلَّا قَلِيلًا

صَدَقَ اللَّهُ الْعَظِيمُ

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DEDICATION

TO
MY PARENTS
MY HUSBAND WALEED ELAZAB
MY CHILDREN
NOURHAN
AHMED
MOHAMED
ALL MY FAMILY
THANKS TO ALLAH WHO GAVE ME
SUCH A GREAT FAMILY

SPECIAL DEDICATION

To

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Your sincerely

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