بسم الله الرحمن الرحيم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الإلكتروني والميكروفيلم

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات

يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

MONA MAGHRABY

Ain Shams University,
Women's College for Arts,
Science and Education,
Cairo- Egypt.

Removal of Some Heavy Metals by Geopolymer Cement

Thesis

Submitted to the Chemistry Department,
Women's Faculty, Ain Shams University.

In Partial Fulfillment of the Requirement for the Degree of Ph.D.
in In organic and Analytical Chemistry

Presented by

Sara Helall Abd allah Helall
(M.Sc. 2016)

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Women's College – Ain Shams University
2021

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Approval Sheet

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Thesis approved

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Head of Chemistry Department
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(2021)

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بسم الله الرحمن الرحيم
قالوا
سبحانك لا علم لنا
إلا ما علمتنا إنك أنت
العليم الحكيم
صدق الله العظيم
سورة البقرة الآية: ٣٢

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Sara Helall Abd allah Helall

TO MY FAMILY

I AM Very Greatful

To All Of Them

For Their Support,

Kindness

And Love.

Sara

NOTE

Beside the work done in this thesis, the candidate has attended post- graduate courses for one symester in Inorganic and Analytical chemistry including the following topics:

- Different types of cements and their applications (CHEM 733)
- Industrial chemistry (CHEM734)

She has successfully passed written examinations in the above mentioned topics.

Head of Chemistry Department

Prof. Dr. Omaima Ahmed Mostafa.

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