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شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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بالرسالة صفحات لم ترد بالاصل

Application of Laser Controlled Nanoparticles in Waste water treatment

THESIS

**Submitted for partial fulfillment for M Sc. Degree in
laser sciences**

TO

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2010*

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ACKNOWLEDGEMENT

All praise and gratitude be to Allah almighty. For giving me the courage and patience to accomplish this work. Acknowledgement is due to laser interaction with matter department of national institute of laser enhanced sciences (NILES) in Cairo University and the laboratory of Abu Rawash treatment plant (ARTP), for the facilities and support provided for the completion of this research.

I would like to appreciate and thank my thesis advisors prof. Dr. Y.Abd Elhameed Badr and Dr.M.Samir Mousa for incessant guidance throughout this research work. They are always kind, understanding and sympathetic to me their valuable suggestions and useful discussions made this work interesting for me. Thanks are due to my thesis committee members for their interest. Cooperation and constructive advice.

Mohammed Elsofy Zain Elabedien

THANKFUL

I would like also my acknowledgment and grateful appreciation to Dr. M.mahmoud ismail, Dr. H.ahmed yusuf, Dr.Ramdan, my beloved parents, brothers, sisters , my sincerely wife and all my friends for their prayers, sacrifices, love, patience, encouragement and understanding, without which the completion of this study would not have been possible.

Mohammed Elsofy Zain Elabedien

LIST OF ABBREVIATIONS

TSS	Total suspended solids.....
BOD	Biological oxygen demand.....
COD	Chemical oxygen demand
SVI	Sludge volume index
MWRI	The Ministry of Water Resources and Irrigation.....
PPM	Parts per million.....
HAD	The high Aswan Dam.....
TOC	Total organic carbon
SS	Suspended solids.....
DS	Dissolved solids.....
F/M	Food per microorganisms ratio.....
SRT	Sludge age or solids retention time.....
VOC	Volatile organic compound.....
R.O	Reverse osmosis system
CEPT	Chemically enhanced primary treatment.....
APT	Advanced primary treatment.....
WHO	World health organization.....
UV	Ultra violet.....
mg/l	Milli gram per liter.....
NTU	Nephelometric turbidity unit.....

ABBREVIATIONS

CVD	Chemical vapour deposition.....
TEM	Transmission electron microscopy
ARTP	Abu Rawash treatment plant.....
RAS	Return activated sludge.....
TVS	Total volatile solids.....
RPM	Rapid per minute.....
NPs	Nanoparticles.....
AgNPs	Silver nanoparticles.....
Cond.	Conductivity.....
EPA	Environmental protection agency.....
MLSS	Mixed liquor suspended solids.....
CAPT	Chemically advanced primary treatment.....
O&G	Oils and greases.....
RNA	Ribonucleic Acid.....
mRNA	Messenger RNA is the RNA that carries information from DNA to Ribosome.....
SEM	Scanning Electron Microscope.....
UVA	Ultraviolet A, Long wave ,or Black light ,range of wavelength is (400-315 nm).....
UVC	Ultraviolet C, Short wave ,or Germicidal , range of wavelength is (280-100nm).....

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