

Curriculum Vitae

Personal information



Name:

Wael Abdelmoez Mohamed

Date of birth:

29/12/1969

Occupation:

Professor of Environment & Energy, at the Chemical Engineering Department , Minia University

- Member of the Center of Excellence at Osaka Prefecture University, Japan
- General Manger of the Project Development and Scientific Research Technology Center (R&D TECH Company) .

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Tel:

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info@rdtechcenter.com



Portfolio



He is a Consultant and Professor of environment & energy at the Department of Chemical Engineering, Minia University. For almost 10 years he was studying and working in Japan. In 2003 he obtained his PhD at Osaka Prefecture University and continued his work at the center of excellence at the same University. Dr. Abdelmoez mixed between the academic and practical life. He established a center for the development of projects and technology scientific research to be a nucleus of a boost domestic manufacturing. His research focuses in the fields of water and renewable energy. Through an integrated team of engineers and researchers has succeeded in locally manufacturing of units for water desalination, grey water recycling powered by solar energy as well as industrial wastewater treatment in many factories across Egypt. In addition, he built the first hybrid solar drying system for fruits and medical herbs based in totally locally manufacturing novel air solar heaters. He published more than forty international articles in the most prestigious scientific journals and orally presented in many international conferences in most countries across the world i.e Asia, USA and Europe. He published four international books worldwide in the areas of bio-engineering and processing and wastewater treatment and recovery. Recently, he awarded the Minia University Incentive Award in the field of life sciences for his scientific projects that linked the academic community with industry and civil society and finally selected to be the technical advisor for the water sector for the ministry of the Military production .

For more information about my work please visit my Company website at:

www.redtechcenter.com

Job History



1992-1996 Research assistance at the Department of Chemical Engineering, **El minia University,**

Egypt

1996-1999 Assistance Lecturer at the Department of Chemical Engineering, **El minia University,**

Egypt

1999-2000 Research student at the Department of Chemical Engineering, **Osaka Prefecture University, Japan**

2000- March 2003

PhD student at the Department of Chemical Engineering, **Osaka Prefecture University, Japan**

2003-2007

Senior researcher at the Center of Excellence Project at the Department of Chemical Engineering, **Osaka Prefecture University, Japan**

2007-2009

Lecturer at El-Minia University and joint active member at the Center of Excellence Project at the Department of Chemical Engineering, **Osaka Prefecture University, Japan**

May 2009-2014

Associate Professor **at El-Minia University.**

The general manger of the Project Development and Scientific Research Technology Center (R&D TECH) Egypt.

2014- up to now

Professor **at El-Minia University.**

The general manger of the Project Development and Scientific Research Technology Center (R&D TECH) Egypt.

Scientific Degrees



- **2014** Professor of Environment & Energy
- **2009** Associate professor degree
- **2008** Research group leader at the center of excellence , Osaka Prefecture University, Japan.
- **2003** Ph.D. in Chemical Engineering, Department of Chemical Engineering, Osaka Prefecture University, Japan.
- **1996** M.Sc. in Chemical Engineering, El- Minia University, Egypt
- **1992** B.Sc. Chemical Engineering, El- Minia University, Egypt

International labor Organization (ILO)

Design and implementation of the first industrial hybrid solar drying system for fruits and vegetables in two different governorates with 4 tones /batch funded by ILO.

<http://rdtechcenter.com/project.aspx?id=17>

GIZ

Through four different innovated projects during the period of 2010-2014

Innovative routes for biogas productions and utilization, please follow the links,

<http://rdtechcenter.com/project.aspx?id=22>

<http://rdtechcenter.com/project.aspx?id=29>

Grey water treatment& recycling project, please follow the link,

<http://rdtechcenter.com/project.aspx?id=6>

Development of Tree Free wood project and particle board from cotton stalks project as an example of waste utilization.

UNIDO

International Consultant for one year for the development of EMAP project, (an agro-industrial development initiative aiming at upgrading Medicinal and Aromatic Plants (MAP) sector in Egypt) through establishing the design concepts and pilot needed for large scale solar herbal drying

CIDARE

Through establishing an Environmental center of excellence in Jeddah, KSA

CIDA

International Consultant for the development of fancy molasses industry in Egypt.

Recently have be selected to be a Member of the Egyptian Center for the Advancement of Science, Technology and Innovation (**ECASTI**)

For more information, please visit

<http://www.ecasti.org/dr-wael-abdel-moez/>

Consultation works with International Entities



Selected achievements



Implemented projects (most of these projects could be seen in more detailed in my website at www.rdtechcenter.com)

- Design and implementation of well water desalination systems powered by solar energy with PV powered systems with battery less, funded by Academy of science & technology, 2015-2016. Based on this achievement we have been selected to be the commissioner for the water desalination system powered by solar energy on behaves of the Military Service Authority for Halybe & Shlateen in the upper Egypt (2016)
- Design and implementation of standalone water desalination systems powered by solar energy based on humidification and dehumidification technology and totally powered by both thermal solar energy and PV systems without the need for RO membrane technology funded Miser Elkhier, (2016)
- Design and implementation of grew water recycling systems powered by solar energy for mosques and schools, funded Miser Elkhier,2014-2016
- Design and implementation of first industrial hybrid solar drying system for fruits and vegetables in two different governorates with 4 tones /batch funded by ILO funded by ILO, 2015.
- Studying the magnetized water technology and its application, OKAWOODE Co.,2013
- Design a line for activated carbon production form rice husk, for Qaha Co. funded by RDI (2012)
- Designed a compact unit for car wash wastewater treatment (2012)
- Designed and fabricated a mobile desalination unit in South Sinai with capacity of 20 m³/day (2011)
- Designed and supervised the implementation of Chrome removal unit with capacity of 4 m³/hr for Golden Co. (2011)
- Design the first industrial water recycling system for Dehydrofood Company with capacity 1200 m³/day 2009, (R&D TECH Company (2010)
- Design the first pharmaceutical products from herbs for Eva Pharma Company. 2009, (R&D TECH Company).
- Designed and supervised the implementation of a biogas station, funded by GIZ (2009).
- Design of a novel process and plant design for the production of activated carbon from rice husk. R&D project funded by the BDSSP, Canadian fund. 2007-2008, (R&D TECH Company).
- Designing and Supervising the Execution of chlorine dioxide plug flow type generators to be used in 42 units for Manganese and Iron removal from ground water using, Sker Co., Egypt, 2008. (R&D TECH Company).
- Design of a factory for medical cotton production, Bani Swafe, 2008.
- Study for the recyclability of the rejected components form the holding company of electricity, Elminia governorate, 2008
- Development of continues system for the acid oil recovery from Mucilage, Elmanar Company, Nobaraya, 2008.
- Design of a novel process and plant design for the fancy molasses production. R&D project funded by the BDSSP, Canadian fund. 2006-2007.
- Supervising the Execution of three Industrial Wastewater Treatment Plants Based on Chemical Enhanced Primary Treatment Method for Haluany Co., Rotex Corp. Ltd. and 10th of Ramadan Co., Ramadan City, during working as a Chief Engineer in ENTAG Company, Egypt 1998-1999.
- Preparing the Environmental Assessment Reports for three Plant-Oil Extraction Factories, through the Egyptian Environmental Affair Agency (EEAA) funded by the KFW (Kreditanstalt Für Wiederaufbau, Germany) during working as a chemical Engineer in Kemonix Egypt. 1997.
- Preparing the Assessment and Evaluation Report of the Environmental Sectors in Egypt “Green Business Project“, funded by the Canadian International Development Agency. 1997

Scientific Funded Projects (main PI and co PI)



- Extraction Technologies for Medicinal and Aromatic Plants) project ID 5767 (STDF-NRG (2015)
- Innovative, Environmental and Economical Rice Waste Management funded by RDI, co PI.
- Production of biodegradable plastic funded by RDI, co PI.
- Extraction of oil from bleaching powder using sub critical water technology funded by IMC, main PI.

Awards



- 2013-Intensive award in life science from the university of Minia University
- 2003-2006 Postdoctoral fellowship, Osaka Prefecture University COE project
- 2008-Excellency performance award, from the faculty of Engineering, Elminia University, Egypt.
- 1999- 2003 Ph.D. Scholarship, funded by the Egyptian Ministry of Education

Professional affiliations



- The Egyptian Engineering Syndicate, Egypt, Since 1992
- Membership of the Society of Chemical Engineering of Japan, Japan, Since 2002
- Membership of Society of the Japan Institute of Chemical Engineering, Japan, Since 2001
- Membership of Society of the American Institute of Chemical Engineering, USA, Since 2005

Books



please visit our website at Amazon,

[http://www.amazon.co.uk/Books-Wael-](http://www.amazon.co.uk/Books-Wael-Abdelmoez/s?ie=UTF8&page=1&rh=n%3A266239%2Cp_27%3AWael%20Abdelmoez)

[Abdelmoez/s?ie=UTF8&page=1&rh=n%3A266239%2Cp_27%3AWael%20Abdelmoez](http://www.amazon.co.uk/Books-Wael-Abdelmoez/s?ie=UTF8&page=1&rh=n%3A266239%2Cp_27%3AWael%20Abdelmoez)

- **“Performing Enzymatic Reactions Using Novel Polymer-Bound ATP”**

ISBN: 978-3-8443-0980-5

- **“Grey Water Recycling Options & Technologies”**

ISBN: 978-3-8473-1246-8

- **“Applications of Magnetized Water: Towards a Magical Water Effect”**

ISBN: 978-3-8484-8221

https://www.cmcbooks.co.jp/products/detail.php?product_id=4134

- **Book chapter**

“Waste Refinery by Sub-Critical Water”

-New conversion technology of wastes into resources and new energy-

Chapter III

Synthesis of biodegradable Plastics Using the Sub-critical water Technology

By Wael Abdelmoez

ISBN978-4-88231-976-4 C3043, CMC Book, High Technology Information Series, Japan

Publications during the period of (2002:2016)



PUBLICATIONS

1. A Mustafa, A Karmali, **Wael Abdelmoez,** [Optimization and economic assessment of lipase-catalysed production of monoesters using Rhizomucor miehei lipase in a solvent-free system](#), *Journal of Cleaner Production* **137**, 953-964, (2016).
2. A Mustafa, A Karmali, **Wael Abdelmoez** , [A Sensitive Microplate Assay for Lipase Activity Measurement Using Olive Oil Emulsion Substrate: Modification of the Copper Soap Colorimetric Method](#), *Journal of Oleo Science* **65 (9)**, 775-784, (2016).
3. **Wael Abdelmoez**, AM Tayeb, A Mustafa, M Abdelhamid, [Green Approach for Biodiesel Production from Jojoba Oil Supported by Process Modeling and Simulation](#), *International Journal of Chemical Reactor Engineering* **14 (1)**, 185-1932, (2016)
4. Wael Abdelmoez, E Ashour, SM Naguib, [A Review on Green Trend for Oil Extraction Using Subcritical Water Technology and Biodiesel Production](#), *Journal of oleo science* **64 (5)**, 467-47, (2016)
5. Gehan M. K. Tolba^{1,2}, A. M. Bastaweesy¹, E. A. Ashour¹, **Wael Abdelmoez**, Mohamed El-Newehy, Nasser A. M. Barakat, . Synthesis of Novel Fe-doped Amorphous TiO₂/C Nanofibers for Supercapacitors Applications. *Int. J. Electrochem. Sci.*, 10, 3117-3123(2015)
6. Gehan MK Tolba, Nasser AM Barakat, AM Bastaweesy, EA Ashour, **Wael Abdelmoez**, Mohamed H El-Newehy, Salem S Al- Deyab, Hak Yong Kim, [Effective and highly recyclable nanosilica produced from the rice husk for effective removal of organic dyes](#), *Journal of Industrial and Engineering Chemistry*, *Journal of Industrial and Engineering Chemistry* **29**, 134-145, (2015)
7. Gehan M.K. Tolba, Nasser A.M. Barakat, A.M. Bastaweesy , E.A. Ashour , Wael Abdelmoez , Mohamed H. El-Newehy , Salem S. Al-Deyab , Hak Yong Kim. Hierarchical TiO₂/ ZnO Nanostructure as Novel Non-precious Electrocatalyst for Ethanol Electrooxidation, *J. Mater. Sci. Technol*, V. 31, No. 1, 97–105, (2015)

8. Gehan M. K. Tolba, Nasser A. M. Barakat, A. M. Bastaweesy², E. A. Ashour, [Wael Abdelmoez](#), and Hak Yong Kim. Synthesis and Electrochemical Capacitance Behavior of ZnO-Doped TiO₂ Nanofibers. *Energy Environ. Focus*, **V. 3, No. 2**, pp. 152-156(5), (2014)
9. [Wael Abdelmoez](#), Soah M. Nage, Ali Bastawess, Ahmed Ihab, Hiroke Yoshida. [Subcritical water technology for wheat straw hydrolysis to produce value added products](#). *Journal of Cleaner Production*, **Vol 70, 1**, P 68-77 (2014).
10. Rehab Abdelfattah, Mostafa, N. , Mahmoud, M., [Wael Abdelmoez](#). Recovery of oil and free fatty acids from spent bleaching earth using sub-critical water technology supported with kinetic and thermodynamic study. *Advances in Bioscience and Biotechnology*, **5**, 261-272 (2014).
11. [Wael Abdelmoez](#) and Ahmad Mustafa. Oleochemical Industry Future through Biotechnology. *J Oleo Sci.* ; **63(6)**, 545-54(2014.).
12. [Wael Abdelmoez](#), Nasser A. M. Barakat, Asmaa Moaz, Treatment of Wastewater Contaminated with Detergents and Mineral Oils Using Effective and Scalable Technology, *Water Science & Technology Vol 68 No 5 pp 974–981 (2013)*.
13. [Wael Abdelmoez](#), Mohamed S. Mahmoud, Taha E. Farrag, Water Desalination Using Humidification-Dehumidification (HDH) Technique Powered by Solar Energy: A Detailed Review, *Desalination and Water Treatment*, **Vol 51 pp 1-19(2013)**.
14. [Wael Abdelmoez](#), H. Yoshida, Production of Amino and Organic Acids from Proteins Using Sub-Critical Water Technology, *International Journal of Chemical Reactor Engineering*, **Vol 11 No 1- 16 pp 1-16(2013)**.
15. [Wael Abdelmoez](#), N. A. Mostafa , [Ahmad Mustafa](#). Utilization of oleochemical industry residues as substrates for lipase production for enzymatic sunflower oil hydrolysis, *Journal of Cleaner Production Vol 59, 15 November 2013, Pages 290–297 (2013)*.
16. N. A. Mostafa, Ashraf Maher, [Wael Abdelmoez](#), Production of mono-, di-, and triglycerides from waste fatty acids through esterification with glycerol. *Advances in Bioscience and Biotechnology*, **Vol.4 No.9, September (2013)**
17. [Wael Abdelmoez](#), M. Abdelhamied, H. Yoshida Extraction of Jojoba Oil Using Subcritical Water Technology, *Recent Patent in Chem. Eng. J. Vol 63-70 (8), (2012)*.
18. [Wael Abdelmoez](#), H. Yoshida, Rehab Abdelfatah, Aghareed Tayeb. Extraction of Cottonseed Oil Using Subcritical Water Technology. *AIChE, Vol (57), 9, 2353-2359,(2011)*.
19. [Wael Abdelmoez](#), H. Yoshida, Tomomi Nakahasi. Pathways of Amino Acid Transformation and Decomposition in Saturated Subcritical Water Conditions. *International Journal of Chemical Reactor Engineering, Vol (8), A107, (2010)*.
20. [Wael Abdelmoez](#), H. Yoshida .Kinetics and Mechanism of the Synthesis of Novel Protein-Based Plastic Using Subcritical water. *Biotechnology progress, Vol 24:466-75. (2008)*.
21. [Wael Abdelmoez](#), H. Yoshida. Mechanical and Thermal Properties of a Novel Protein-Based Plastic synthesized Using Subcritical Water Technology. *Macromolecules, 40 (26), pp 9371–9377, (2007)*.
22. [Wael Abdelmoez](#), H. Yoshida. Amino Acids Transformation and Decomposition under the Saturated Sub-critical Water Condition. *Industrial Engineering chemistry. Research Vol 46, 5286-5294. (2007)*.
23. [Wael Abdelmoez](#), H. Yoshida. Modeling and Simulation of Fast Reactions in Batch Reactors under Sub-critical Water Condition. *AIChE J. Vol 52(10) 2607–2617(2006)*.
24. [Wael Abdelmoez](#), H. Yoshida. Synthesis of a Novel Protein-Based Biodegradable Plastic from the BSA using the Sub-critical Water Technology. *AIChE J, Vol 52(7) 2607-2616(2006)*.
25. [Wael Abdelmoez](#), K. Ishimi, H., and H. Ishikawa “Theoretical Investigation of Enzymatic G6P Production with Polymer-Bound ATP Recycling in Membrane Reactors” *AIChE J, Vol 52, 683 - 691(2004)*.
26. [Wael Abdelmoez](#), I. Bobe, K. Ishimi, H. Ogino, M. Yasuda, and H. Ishikawa “Kinetics of the Reaction Catalyzed by Thermophilic Glucokinase from *Bacillus Stearothermophilus* Using the Carboxy-Terminated PAMAM-Bound Adenine Nucleotides as Cofactors”- submitted to *Bioscience Bioengineering J Vol 86, 3 365 - 373(2004)*.
27. Bobe I., [Wael Abdelmoez](#), H. Ogino, M. Yasuda, K. Ishimi, and H. Ishikawa (2003) “Kinetics and Mechanism of a Reaction Catalyzed by PST-01 Protease from *Pseudomonas aeruginosa* PST-01”- *Biotechnology Bioengineering, vol 86. (2004)*.

28. **Wael Abdelmoez**, I. Bobe, K. Ishimi, and H. Ishikawa "Investigation of Glucose 6-Phosphate Production and Simultaneous Carboxy-Terminated PAMAM-Bound Adenine Nucleotides Regeneration by Conjugated Enzymes in a Batch Reactor" *J. of Chemical Engineering of Japan* vol 37,1303-1309 (2003).
29. **Wael Abdelmoez**, M. Yasuda, H. Ogino, K. Ishimi, and H. Ishikawa "Synthesis of New Polymer-bound Adenine Nucleotides Using Starburst PAMAM Dendrimers ", *Biotechnol. Prog. Jul-Aug; 18(4): 706-712, (2002).*

Asia

Japan



•**Wael Abdelmoez**, and H. Yoshida, Investigation of amino acids reactions under saturated sub-critical water condition Meeting of the 8th International Symposium on Hydrothermal Reactions (ISHR-8) and 7th International Conference on Solvothermal Reactions (ICSTR-7), Sendai, Japan, during August 5 – 9, 2006.

•**Wael Abdelmoez**, and H. Yoshida, Investigation of amino acids reactions under saturated sub-critical water condition Meeting of the 8th International Symposium on Hydrothermal Reactions (ISHR-8) and 7th International Conference on Solvothermal Reactions (ICSTR-7), Sendai, Japan, during August 5 – 9, 2006.

•**Wael Abdelmoez**, and H. Yoshida, Mechanism and pathway of the amino acids reactions under the saturated sub-critical water condition joint Meeting of the 8th International Symposium on Hydrothermal Reactions (ISHR-8) and 7th International Conference on Solvothermal Reactions (ICSTR-7), Sendai, Japan, during August 5 – 9, 2006.

•**Wael Abdelmoez**, K. Ishimi, H. Ogino, M. Yasuda, and H. Ishikawa "Synthesis of New Polymer-Bound Adenine Nucleotides Using Starburst PAMAM Dendrimers" Annual meeting of the Chemical Engineering of Japan, Fukuoka, March 2002.

•**Wael Abdelmoez**, K. Ishimi, H. Ogino, M. Yasuda, and H. Ishikawa "Modeling of Enzymatic G6P Production with Polymer-Bound ATP Recycling in Membrane Reactors" Annual meeting of the Chemical Engineering of Japan, Kobe September 2002.

•I. Bobe, **Wael Abdelmoez**, K. Ishimi, H. Ogino, M. Yasuda, and H. Ishikawa Poster Presentation at the Annual Chemical Engineers Meeting, Japan .Sendai, Japan "Kinetics and Mechanism of a Reaction Catalyzed by PST-01 Protease from *Pseudomonas aeruginosa* PST-01".2003.

Turkey



•Taha E. Farrag, Mohamed S. Mahmoud, **Wael Abdelmoez**, Theoretical analysis of multistage desalination using humidification-dehumidification technique (HDH), Istanbul, Turkey, Elfathi University, 3-8 November, 2013

China



•**Wael Abdelmoez**, and H. Yoshida. Investigation of the Mechanical, Thermal, and Electromicroscopic Properties of a novel Biodegradable Plastic Synthesized from Bovine Serum Albumin Using Sub-Critical Water Technology. China/USA/Japan Joint Chemical Engineering Conference Beijing, China, October 11-13, 2005

Korea



•**Wael Abdelmoez**, and Abdelhameed; T. Zero Emission Approach Using Sub-Critical Water Technology. International climate & environmental fair, Gwanjo, Korea, (5-7)-11- 2009

Syria.



•**Wael Abdelmoez**, Integrated Solid Waste Treatment. Workshop, Aleppo, Syria, December, 18-20, 2006.

Kuwait.



•**Wael Abdelmoez**, Abdelhameed T. Novel water assisted soil remediation technology. Oil lake & Soil remediation forum. Kuwait environmental Remediation Program, March 22-25, 2010, Hubara Center- KOC, Kuwait.

Malaysia.

•Technology transferee workshop, Kuala Lumpur, 2012

International Conferences



Europe



UK

- Wael Abdelmoez, and H. Yoshida, Synthesis of BSA-Gelatin Biodegradable Plastic Using Sub-critical Water Technology, ISHA 2008, Nottingham, UK, 8-10th September 2008



Germany

- Bioplastic training course for technology transfere , Hanover
- Wael Abdelmoez, Sustainable utilization of municipal wastewater of arid area, EFAS, Berkenfiled, Germany, November,2010.
- Wael Abdelmoez, and H. Yoshida. Water-Soluble Protein Hydrolysis Under the Saturated Sub-critical Water Condition. IUPAC first international conference on green-sustainable chemistry, Dresden, Germany, September, 10-15, 2006.



Italy

- Ecomondo the platform for green solutions, Italy, 2012



Spain

- Grey water recycling, workshop for water treatment systems, Ouhlba, Spain, 2012

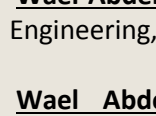


USA

California

- Wael Abdelmoez, and H. Yoshida .Mechanism and Pathway of the Water-Soluble Protein Hydrolysis under the Sub-Critical Water Condition. *AIChE* Annual International meeting, San Francisco, 15-17, 2006.

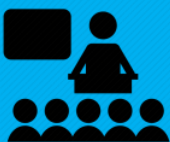
Local Conferences



Egypt

- Wael Abdelmoez, Biomass gasification prototype. Second International Conference of Energy Engineering, Aswan, Egypt, December, 2010.
- Wael Abdelmoez, Integrated solid waste management. Conference on solid waste management and society. Cairo University. 2010.
- Wael Abdelmoez, Yoshida H. An overview of the applications of the subcritical water hydrolysis technology in waste reuse, recycle, and treatment. Proceeding of El-Minia international conference, Towards a Safe and Clean Environment, TSCE'05, El-Minia, Egypt 2005; 15-17 April. E3-4.
- Wael Abdelmoez, Chemistry niches in Egypt's industry. Towards the creation of Euromed Industrial Partnerships" Medibtikar, Cairo, Egypt, from the 7th -8th of November 2007.

Teaching Experience



- 1992-1996 Research Assistant at the Department of Chemical Engineering El-Minia University, Egypt
- 1996-1999 Assistance Lecturer at the Department of Chemical Engineering El-Minia University, Egypt
- 2003-2009 Lecturer at the Department of Chemical Engineering El-Minia University, Egypt
- *Courses taught:* "Chemical Reaction Engineering, Principle of Plant Design, Thermodynamics, and Mass transfer"
- 2009-2014 Associate professor at the Department of Chemical Engineering El-Minia University, Egypt
- 2014-up to now Associate professor at the Department of Chemical Engineering El-Minia University, Egypt

Analytical and experimental skills in the field of expertise



Post graduate supervisions



- Proceeding Reactions Under Subcritical and Supercritical Conditions
- Kinetics of Enzymatic Reaction in Organic and Non-Organic Media Biopolymers (synthesis and characterization)
- Bioreactor design High Performance Liquid Chromatography (HPLC)-(Shimadzu systems)
- Gel Permeation Chromatography- (GPC)-(Tosoh system)
- Nuclear Magnetic Resonance (NMR) (Varian)
- FT/IR (FT/IR-410, Jasco)
- UV-Visible
- Spectrophotometer CHNS Analyzer (Elmer)
- Porosimeter (Pascal)
- Scanning Electron Microscopy (SEM)
- Enzyme Assay, Enzyme Isolation and Purification
- SDS-PAGE
- Peptides synthesis
- Immobilization of enzymes.

Completed Master Degrees

1. Title: Amino Acids Transformation and Decomposition of amino acids Under the Saturated Sub-critical Water Condition Student name: *Tommi Nakahashi, Japan, Osaka Prefecture University, 2004* Supervisors: *Prof. Harouki Yoshida & Dr. Wael Abdelmoez*,
2. Title: Applications of sub-critical Water in Extraction of compounds from Biomass (Cotton Seed Extraction) Student name: *Rehab Abdelfatah, Egypt, Elminia University, 2009* Supervisors: *Prof. Aghareed M. Taybe & Dr. Wael Abdelmoez*,
3. Title: Applications of Sub-critical Water in Cellulose Hydrolysis Student name: *Soha Mohamed , Egypt, Elminia University, 2009* Supervisors: *Prof. Ali Bastawesse, Prof. Hassaneen Asfour, Dr. Wael Abdelmoez, 2009*
4. Title: Extraction of jojoba Oil Using Sub-Critical Fluid Technology Student name: *Mohamed Abdelhamid, 2011* Supervisors: *Prof. Aghareed M. Taybe & Dr. Wael Abdelmoez*,
5. Title: Treatment of Wastewater Contaminated with Detergent and Mineral Oils Using Advanced Technology Student name: *Asma Moaz, 2013* Supervisors: *Dr. Wael Abdelmoez & Dr. Nasser Ali, 2013*
6. Title: Production of mono-, di-, and triglycerides from waste fatty acids through esterification with glycerol Student name: *Ashrf Maher* Supervisors: *Prof. Naga Abdelahh & Dr. Wael Abdelmoez, 2012*
7. Title: Utilization of oleochemical industry residues as substrates for lipase production for enzymatic sunflower oil hydrolysis, Student name: *Ahmed mustfa* Supervisors: *Prof. Naga Abdelahh & Dr. Wael Abdelmoez, 2012*

Ongoing Master Degrees

1. Title: Advantage Technology for Iron and Manganese Removal From Ground Water Student name: *Hend Mahmoud* Supervisors: *Prof. Aghareed M. Taybe & Prof. Wael Abdelmoez*
2. Title: Oil extraction and Biodiesel production using Subcritical Water Technology Student name: *Shahenaz Mohamed* Supervisors: *Prof. Eman Mahmoud & Prof. Wael Abdelmoez*

Abdelmoez

Completed PhD

- Title: production of Nanomaterial using Sub-critical Water Technology Student name: *Gehan Koutb , Egypt, Elminia University,* Supervisors: *Prof. Ali Bastawesse, Prof. Eman Mahmoud, Prof. Wael Abdelmoez.*

References



- **Professor Hiroyuki Yoshida**, Professor of Chemical Engineering, Osaka Prefecture University
E-mail: Yoshida@chemeng.osakafu-u.ac.jp
Phone: +81-72-254-9301, Fax: +81-72-254-9301
- **Professor Haruo Ishikawa**, Professor of Chemical Engineering, Osaka Prefecture University
E-mail: ishikawa@chemeng.osakafu-u.ac.jp
Phone: +81-72-254-9296, Fax: +81-72-254-9911
- **Professor Abdelmonem Albasunee**, Professor of Chemical Engineering, X-President of El-Minia University, El-Minia , Egypt
E-mail: a_m_bassiouny@hotmail.com
Phone & Fax: +2-086-36-9089