

1- Personal Data

Name: Mohamed Salah Mahmoud Mohamed, Ph. D.

Date of Birth: 7/11/1976

Place of Birth: State of Kuwait

Nationality: Egypt

Contact Address: Minia University, Faculty of Engineering, Chemical Engineering Department, Minia, 61516, Egypt

Tel (home): +2-086-2320190

Tel (Mobile): +201227553150, +96871189304

Fax : +2-086-2346674

Email: m.salah.m@mu.edu.eg, mohammedsalah.soh@cas.edu.om

2- ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization:

Chemical Engineering, Laser ablation utilization in renewable energy cycles

(b) Academic Qualifications

Degree, Major, Year, University, Country, Dissertation Title, GPA

- Ph. D, Chemical Engineering Department, Tokyo Institute of Technology, Japan, Oct. 2005-Sep. 2008, " MgO Reduction by Laser for Renewable Energy Cycle"

- M. Sc., Chemical Engineering Department, University of Minia, Egypt. Oct.2001-July. 2003: " Mixing and Hydraulics in Agitated Vessels of Different Geometries"

- B. Sc., Chemical Engineering Department, University of Minia, Egypt. 1st Class, honor's.

(c) Academic Honors and Awards

a. Egyptian governmental scholarship for PhD study in Japan(April 2005-April 2009)

b. Research fellowship at Tokyo institute of technology (Jan, 2014 – Jan, 2015)

(d) Membership of Professional Bodies

1- Egyptian engineering syndicate, 10/1999

2- The water network (AquaSPE), 2014

(e) Language Proficiency

1- Arabic (original Language)

2- English (very good)

3- Japanese (fair)

3- CAREER DETAILS

(a) Academic Positions Held

- Associate professor, Engineering department, collage of applied science, Sohar, Sultanate of Oman (20/10/2016~ present)

- Associate professor. Chemical Engineering Department, Minia University, Egypt, (1/ 2014~present)

- Assistant professor. Chemical Engineering Department, Minia University, Egypt. (12/ 2008- 12/2013)

- Teaching Associate. Chemical Engineering Department, Minia University, Egypt. (8/2003 – 4/2005).

- Teaching Assistant. Chemical Engineering Department, Minia University, Egypt. (11/1999- 8/

2003).

(b) Professional/Industrial Positions Held

- Visiting researcher. Tokyo Institute of Technology, Japan. (1/2014-1/2015)
- Research student. Entropia Laser Initiative, Tokyo Institute of Technology, Japan. (4/2005 – 10/ 2005).

(c)Administrative Positions Held (*Quality Assurance Vice head: 12/2011-12/2013*)

4- Teaching experience

(a) Summary of Courses Taught

Course Code	Course Name	Number of Times Taught	Evaluation
Undergraduate			
CHE021	Engineering chemistry	4	
BES111	Engineering mathematics	3	
CHE415	Modeling and simulation in chemical engineering	5	Utilization of HYSYS™ software
CHE412	Petrochemicals	2	
CHEX31	Energy conservation	2	
BES123	Programming languages	5	FORTRAN™ and MATLAB™
CHE323	Computer application in chemical engineering	2	Utilization of HYSYS™, and Excel™ software
CHE312	Mass transfer	3	
CHE316/ CHEN4234	Electrochemistry and Corrosion	3	Fuel cell course
CHEN2212	Thermodynamics	2	
CHEN2213	Applied physical chemistry	1	
CHEN3341	Separation processes	2	
ENGR3251	Professional practice	2	
CHEN2211	Principles of Chemical Engineering	3	
CHEN3315	Chemical Reaction Engineering	1	
ENGR1204	Introduction to engineering	1	
Postgraduate			
CHE259 (Diploma Course),	Computer application in chemical engineering	3	
CHE403 (Master course)	Higher mathematics	2	

(b) Participation in Academic Accreditation

Name of Program	Role	Institution	Name of Accreditation Body	Period
-----------------	------	-------------	----------------------------	--------

Faculty of Engineering, Minia University	Deputy Director of Quality Assurance Unit	Minia University, Faculty of Engineering	National Authority for Quality Assurance and Accreditation of Education (NAQAEE), Egypt	1/2009~1/2014
accreditation program	Deputy Director of Quality Assurance Unit	The Minia Higher Institute of engineering and Technology	National Authority for Quality Assurance and Accreditation of Education (NAQAEE), Egypt	10/2013~1/2014

(c) Research Students Supervised/Trained

Level Number of Trainees	Postdoctoral Fellows	PhD Students	Master Students	Undergraduate Students
2	-	3	12	40

5- RESEARCH Theme**(a) Research Interests**

List of research interests in order of priority

- 1- Utilization of laser for reduction of metal oxides to produce metals for metal air fuel cell applications
- 2- Utilization of solar energy for hydrogen generation using nanoparticles/Nano fibers
- 3- Solar water desalination by humidification dehumidification technique
- 4- Utilization of electromagnetic field in wastewater treatment by electrocoagulation/electro floatation processes
- 5- Energy efficiency application in wastewater treatment
- 6- Preparation of Graphene over carbon substrate by electrophoretic deposition as electrode in Fuel cell
- 7- Preparation of nanoparticles by co-precipitation method

(b) Publications/Citations Data

Type of Publication	Number of Publications
Articles in International Refereed	33
Journals	33
Conference Papers	17
Books/Book Chapters	1
Edited Books	-
Patents	1
H index	8
Reviewed papers	10 https://publons.com/dashboard/summary/
Citation Source Number of Citations	Clarivate / 267
Orcid ID	orcid.org/0000-0003-3462-2281
Clarivate ID	F-3038-2018
Researchgate	https://www.researchgate.net/profile/Mohamed_Mahmoud27
Scopus	https://www.scopus.com/authid/detail.uri?authorId=15136077300

(c) Research Grants

No	Type of	Role	Title of Project	Awarding body	Duration
----	---------	------	------------------	---------------	----------

	Grant				
1	Scientific	Co-PI	Development of stand alone solar water desalination system based on humidification-dehumidification technology	Misr El Kheer Foundation / Egypt	12/2011-12/2013
2	Scientific	Co-PI	Utilization of SOFC for electricity production in integration with a bio gas unit.	Ministry of scientific research and technological applications Egypt	6/2013-12/2014
3	Scientific	Co-PI	A demonstration unit for sustainable utilization of gray water in siphon boxes, agriculture and gardening	Misr El Kheer Foundation, Egypt	3/2013-9/2013
4	Scientific	Co-PI→PI	Nanotechnological Approach for the Development and Implementation of Microbial Fuel Cell for Energy Harvesting from Wastewater	RDI –EU ENPI/2014/343-429	27/5/2014-27/11/2016
5	Scientific	PI	Production of Bio oil from Biomass (RDF and Agriculture Residues) by Fast Pyrolysis	Misr El Kheer Foundation / Egypt	12/2015-6/2017
6	Scientific	Co-PI	Development of Electrodes using Carbon Nano-fibers for Fuel Cell	STDF/Egypt (15113/2014)	1/11/2015-1/11/2017
7	Scientific	Co-PI	Advanced Solar Energy-Assisted Water Desalination System in High Salinity and Brackish Water Areas with Controlled Greenhouse for Sustainable Agriculture: A WEF Nexus Project	STDF/USA	1/12/2017-1/12/2019

(d) Patents

1- Title: **LASER REFINING APPARATUS AND LASER REFINING METHOD** Japanese patent **WIPO Patent WO/2010/050450A1. International application No.: PCT/JP2009/068364. Inventors: YABE Takashi, CHOIJIL BAASANDASH, SATOH Yuji, MOHAMED SALAH MAHMOUD MOHAMED,**

(e) Participation in Regional & International Conferences

- 1- The second international conference of Minia, The environmental and developing the society in the countries of the third world, 2-3 March 2009
- 2- The 5th International Conference of Military Technical College, Egypt, 27-29/5/2010
- 3- The 15th international water technology conference, Alexandria, Egypt, 28-30 May 2011.
- 4- The 6st international conference of Military Technical Collage, 28-30 May 2012, Cairo, Egypt.
- 5- The 15th International Conference on Petroleum, Mineral Resources and Development PMRD 2012, Cairo, 8-10 April 2012.
- 6- The 3rd international conference on sustainable future of human security, Kyoto, Japan, 3-5 Nov., 2012.
- 7- The 17th international water technology conference, Istanbul, Turkey, 5-7 Nov., 2013.
- 8- The 3rd International Conference on Advanced Engineering and Technology (ICAET), Seoul, Korea, 20-21 Dec, 2014
- 9- The 5th International Conference on Green and Sustainable Innovation (ICGSI 2015) "Moving Towards Green Growth and Green Competitiveness", Pataya, 14-17/11/2015 Thailand
- 10- **The EFC2015 European Fuel Cell Technology & Applications Conference - Piero Lunghi Conference December 16-18, 2015, Naples, Italy**
- 11- The 21th international water technology conference, Ismailia, Egypt, 28-29 June, 2018.

6- SERVICE

(a) Membership of Institution, National, or International Scientific

1-Egypt Engineering syndicate

(b) Membership of Conference Committees

1- Administrative committee, 1st international conference on fuel cell and its application, (Minia, Egypt), 15-17/5/2016

(c) Service as Reviewer

Journals

- 1- Desalination and Water Treatment, *ISSN* 1944-3994 (Print), 1944-3986 (Online).
- 2- Environmental protection engineering, *ISSN*: 0324-8828
- 3- Journal of Bio and Tribo Corrosion
- 4- RSC Advances
- 5- Surface review and letters

(d) Invited Presentations at Scientific Meetings/Workshops

1- New Renewable Energy Cycle by Magnesium, Laser, and Magnesium air Fuel cell, Chonbuk National University – organic material and fiber engineering Chonbuk, South Korea, 23/12/2014

(e) University Service

Participated as vice head of the quality assurance unit in the faculty of Engineering, Minia University and participated in the activities for accreditation of the faculty

(f) Service to Profession/Industry

Participated in many consultations for factories in El- Minia industrial city

7- List of Publications

(a) International Refereed Journals

- [1] Hager M. Moustafa, M. Obaid, Mamdouh M. Nassar, Mohammad A. Abdelkareem, **Mohamed S. Mahmoud**, Titanium dioxide-decorated rGO as an effective electrode for ultrahigh-performance capacitive deionization, **235(2020)** 116178, <https://doi.org/10.1016/j.seppur.2019.116178>
- [2] Hager M. Moustafa, Mamdouh M. Nassar, Mohammad A. Abdelkareem, **Mohamed S. Mahmoud**, M. Obaid, Synthesis and characterization of Co and Titania nanoparticle -intercalated rGO as a high capacitance electrode for CDI, *Journal of Environmental Chemical Engineering*, <https://doi.org/10.1016/j.jece.2019.103441>
- [3] Mohamed S. Atrees, Ebraheim E. Ebraheim, Mohamed E. M. Ali, Yasser M. Khawassek, **Mohamed S. Mahmoud** & Mohammad M. Almutairi, Synergetic effect of metal-doped GO and TiO₂ on enhancing visible-light-driven photocatalytic hydrogen production from water splitting, **Energy Sources, Part A: Recovery, Utilization, and Environmental Effects**, <https://doi.org/10.1080/15567036.2019.1629130>
- [4] Mohammad M. Almutairi; Ebraheim E. Ebraheim; **Mohamed S. Mahmoud**; Mohamed S. Atrees; Mohamed E. M. Ali ; Yasser Mahmoud Khawassek, Nanocomposite of TiO₂ @ Ni- or Co-doped graphene oxide for efficient photocatalytic water splitting, Accepted, Egyptian journal of chemistry, **10.21608/EJCHEM.2019.9722.1648**
- [5] **Mohamed S. Mahmoud**, Moaded Motlak, and Nasser A. M. Barakat, Facile Synthesis and Characterization of Two Dimensional SnO₂-Decorated Graphene Oxide as an Effective Counter Electrode in the DSSC, *Catalysts* 2019, 9, 139; doi:10.3390/catal9020139
- [6] Ashraf Abdel Raheem ; Ashraf Mahroos ; **Mohamed S. Mahmoud**; Ibrahim Ashour , Fabrication of conductive human bio-nanoelectrode from graphene oxide modified with polyvinyl alcohol, : Volume 13, Issue 1, 2019, 1 – 5
- [7] Olfat A.Fadali, **Mohamed S.Mahmoud**, Omnia H.Abdelraheem, Shima G.Mohammed, Evaluation of the

- hydrodynamics generated by agitation and electromagnetic field during the electrocoagulation of oil/water emulsion, *Journal of Water Process Engineering*, 25(2018)182-189
- [8] **Mohamed S. Mahmoud**, Enas Ahmed, A.A. Farghali, A.H. Zaki, Nasser A.M. Barakat, Synthesis of Fe/Co-doped titanate nanotube as redox catalyst for photon-induced water splitting, *Materials Chemistry and Physics* 217(2018)125–132
- [9] **Mohamed S. Mahmoud**, Enas Ahmed, A.A. Farghali, A.H. Zaki, Emad A.M. Abdelghani, Nasser A.M. Barakat, Influence of Mn, Cu, and Cd-doping for titanium oxide nanotubes on the photocatalytic activity toward water splitting under visible light irradiation, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 554(5) (2018) 100–109.
- [10] **Mohamed S. Mahmoud**, M. Shaheer Akhtar, Ibrahim M.A. Mohamed, Rawan Hamdan, Yara Abu Dakka, Nasser A.M. Barakat, Demonstrated photons to electron activity of S-doped TiO₂ nanofibers as photoanode in the DSSC, *Materials Letters* 225 (2018) 77–81
- [11] **M. S. Mahmoud**, T. Yabe, Silicothermic reduction of MgO using diode laser: Experimental and kinetic study, *Journal of Magnesium and Alloys*, 5(4) (2017) 430-438
- [12] **M.S. Mahmoud**, T. Yabe, and E. Iida, Novel Approach for the Reduction of ZnO and MgO Using a Direct Diode-Laser, *Metallurgical and Materials Transactions B*, 48(1), (2017), 179–186
- [13] Nasser A. M. Barakat, Motlak Moaded, Ahmed Taha, M. M. Nassar, **M. S. Mahmoud** & H. Fouad, Super Effective Zn-Fe-doped TiO₂ Nanofibers as Photocatalyst for Ammonia Borane Hydrolysis, *Int. J. Green Energy*, 13(7), (2016), 642-649
- [14] Nasser A.M. Barakat, Hajer M. Moustafa, M.M. Nassar, Mohammad Ali Abdelkareem, M.S. Mahmoud, Abdulhakim A. Almajid, Khalil Abdelrazek Khalil, Distinct influence for carbon nanomorphology on the activity and optimum metal loading of Ni/C composite used for ethanol oxidation, *Electrochimica Acta* 182 (2015) 143–155
- [15] M.M. Nassar a, T.E. Farrag, **M.S. Mahmoud**, S. Abdelmonem, Khalil Abdelrazek Khalil, Nasser A.M. Barakat, Influence of the operating conditions on the morphology of CaCO₃ nanoparticles prepared by modified co-precipitation with pulse mode feeding, *Advanced Powder Technology* 26 (2015) 914–919
- [16] Olfat A. Fadali, Mohamed Obaid, **Mohamed S. Mahmoud**, Taha E. Farrag, Kim TaeWoo, Khalil Abdelrazek Khalil, Nasser A. M. Barakat, Copper Ion Cementation in Presence of a Magnetic Field, *Chem. Eng. Technol.* (2015), 38, No. 3, 441-445
- [17] Nasser A. M. Barakat, Moaded Motlak, M. M. Nassar, Mohammad Ali Abdelkareem, **M. S. Mahmoud**, Mohamed H. El-Newehy, and Hager M. Moustafa, From Secondary to Primary Role in Alkaline Fuel Cells: Co-Decorated Graphene as Effective Catalyst for Ethanol Oxidation, *ECS Electrochemistry Letters*, 4 (1) F5-F8 (2015)
- [18] M.M. Nassar, Taha Ebrahiem Farrag, **M.S. Mahmoud**, Sayed Abdelmonem, Morphology-controlled CaCO₃ nanostructures by modified co-precipitation in pulsed mode, *Applied Mechanics and Materials* 12/2014; 752 753:148-153.
- [19] Nasser A.M. Barakat, Ahmed Taha, Moaded Motlak, M.M. Nassar, **M. S. Mahmoud**, Salem S. Al-Deya, Mohamed El-Newehy, Hak Yong Kim, ZnO&Fe₂O₃-incoportaed TiO₂ nanofibers as super effective photocatalyst for water splitting under visible light radiation, *Applied Catalysis A: General* 481 (2014) 19–26
- [20] Rehab Abdelfattah N. A. Mostafa, **Mahmoud S. Mahmoud**, 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*, 2014, 5, 261-272
- [21] Nasser A. M. Barakat, M. M. Nassar, Farrag T.E., **Mahmoud M.S.**(2014), Effective

- photodegradation of methomyl pesticide in concentrated solutions by novel enhancement of the photocatalytic activity of TiO₂ using CdSO₄ nanoparticles, *Environ Sci Pollut Res*, 21:1425–1435
- [22] Olfat A. Fadali, Ebrahiem E. Ebrahiem, Taha E. Farrag, Nasser A. Barakat, **Mohamed S. Mahmoud** and Mohamed Obaid, "Effect of Magnetic Field on the Rate of Copper Cementation onto Rotating Iron Cylinder", *Energy and Environment Focus* Vol. 2, pp. 13-138, 2013
- [23] **Mohamed S. Mahmud**, Joseph Y. Farah, Taha E. Farrag, "Enhanced Removal of Methylene Blue Dye by Electrocoagulation Using Iron Electrodes", *Egyptian Journal of Petroleum* (2013) 22, 211–216
- [24] **Mohamed S. Mahmoud**, Taha E. Farrag, Wael A. Mohamed, Experimental and theoretical model for water desalination by humidification - dehumidification (HDH), *Procedia Environmental Sciences* 17 (2013) 503 – 512
- [25] **Mohamed Salah Mahmoud**, "Enhancement of Solar Desalination by Humidification-Dehumidification technique", *desalination and water treatment*, 30(2011)310-318
- [26] S. H. Liao, T. Yabe, **M. S. Mohamed**, C. Baasandash, Y. Sato, C. Fukushima, M. Ichikawa, M. Nakatsuka, S. Uchida, and T. Ohkubo, "Laser-induced Mg production from magnesium oxide using Si-based agents and Si-based agents recycling", *J. Appl. Phys.*, 109, 013103 (2011)
- [27] Ebrahiem E. Ebrahiem, Joseph Y. Farah, Taha E. Farrag, **Mohamed S. Mahmoud**, and M. S. Mansour, " Adsorptive removal of phenolic compounds from wastewater by carbon synthesized from tree branches", *Alexandria Engineering Journal*, Vol. 48, No 6, (2009), 1-9
- [28] **Y. Sato, T. Yabe, Y. Sakurai, M. S. Mohamed, S. Uchida, C. Baasandash, T. Ohkubo, Y. Mori, and H. Sato** "Experimental Study of Magnesium Production with Laser for Clean Energy Cycle", *AIP Conf. Proc.* - April 28, 2008 - **997**, 546-552 **BEAMED ENERGY PROPULSION: Fifth International Symposium on Beamed Energy Propulsion**; doi:10.1063/1.2931925
- [29] **M. S. Mohamed**, T. YABE, C. BAASANDASH, Y. SATO, Y. MORI, Liao Shi-Hua, H. SATO, and S. UCHIDA " Laser-induced magnesium production from magnesium oxide using reducing agents" *J. Appl. Phys.*, 104(11), 113110, (2008).
- [30] **Mohamed S. MOHAMED**, Takashi YABE, Chojiil BAASANDASH, Yuji SATO, Yuichi MORI, Hiroki SATO, and Shigeaki UCHIDA, "Laser Induced Magnesium Oxide Reduction for Renewable Energy Cycle with Solar Power", *The Review of Laser Engineering*, Vol. **36**, (2008) p.1199 .
- [31] T.Yabe, **M. S. Mohamed**, S. Uchida, C. Baasandash, , Y. Sato , M. Tsuji, Y. Mori, , " Noncatalytic dissociation of MgO by laser pulses towards sustainable energy cycle", *J. Appl.Phys.*, 101(12), 123106-1 (2007) .
- [32] T.Yabe, S. Uchida, K. Ikuta, K. Yoshida, C. Baasandash, **M. S. Mohamed**, Y. Sakurai, Y. Ogata, M., Tsuji, Y. Mori, Y. Satoh, T. Ohkobo, M. Murahara, and A. Ikesue; " Demonstrated Fossil-Fuel-Free Energy Cycle Using Magnesium and Laser", *Appl.Phys.Lett.*, 89 (2006), 261107.
- [33] T. Yabe, K. Ikuta, C. Baasandash, R. Katano, S.Uchida, M., Tsuji, Y. Mori, J Maehara, **M. S. Mahmoud**, and T. Toya; "MgO Deoxidization by Focused Laser Pulse for a New Energy Cycle", *AIP Conference Proceedings* 830, pp.447-456 (2006), *Proc. of 4th International Symposium on Beamed Energy Propulsion (ISBEP4)*, Nara, Japan, November 15-18, (2005)

(b) Conference Papers

- 1- The 54th spring meeting, 2007, the Japan Society of Applied Physics, Kanagawa, Japan, March 27-30 (2007)
- 2- **Mohamed S. MOHAMED**, Takashi YABE, Chojiil BAASANDASH, Yuji SATO, Yuichi MORI, Hiroki SATO, and Shigeaki UCHIDA, "Laser Induced Magnesium Oxide Reduction for Renewable Energy Cycle with Solar Power", *The 6th Asia Pacific Laser Symposium*, Nagoya, Japan, Jan 2008.
- 3- T. Yabe, S. Uchida, **M.S. Mohamed**, C. Baasandash, Y. Sato, Y. Mori, and H. Sato, "Laser-Induced MgO

- Reduction for Renewable Energy Cycle with Solar Power”, Egypt - Japan International Symposium on Science and Technology (EJISST2008), Waseda University, Tokyo, Japan, 8~10 June 2008.
- 4- Mamdouh M. Nassar, A. M. El Kersh, Ebrahiem E. Ebrahiem, **Mohamed S. Mahmoud**, “ Mixing and flow visualization in agitated vessels of different geometries”, 8th international conference of chemical engineering, Egyptian Society of Chemical Engineers, Cairo, Egypt, Nov. 2008.
 - 5- Ebrahiem E. Ebrahiem, **Mohamed Salah**, “ An Investigation on the Removal of Phenolic Compounds from Wastewater” The second international conference of Minia, The environmental and developing the society in the countries of the third world, 2-3 March 2009, pp: 319-332.
 - 6- Ebrahiem E. Ebrahiem, Joseph Y. Farah, **Mohamed. S. Mahmoud**, “An investigation on the removal of Nitrophenol onto carbon obtained from trees branches”, Fifth International Conference of Military Technical College, Egypt, 27-29/5/2010
 - 7- **Mohamed Salah Mahmoud**, Asma Abd El-Sattar Mohamed, “UTILIZATION OF FRESNEL LENS IN WATER DESALINATION BY HUMIDIFICATION-DEHUMIDIFICATION PROCESS”, 15th international water technology conference, Alexandria, Egypt, 28-30 May 2011.
 - 8- Olfat A. Fadali, Ebrahiem E. Ebrahiem, **Mohamed S. Mahmoud** and Mohamed Obaid, “Contribution of Electromagnetic Field in Elimination of Heavy Metal from Industrial Wastewater”, 6st int. conference of Military Technical Collage, 28-30 May 2012, Cairo, Egypt.
 - 9- **Mohamed S. Mahmud**, Joseph Y. Farah, Taha E. Farrag, “Enhanced Removal of Methylene Blue Dye by Electrocoagulation Using Iron Electrodes”, 15th International Conference on Petroleum, Mineral Resources and Development PMRD 2012, Cairo, 8-10 April 2012.
 - 10- **Mohamed S. Mahmoud**, Taha E. Farrag, Wael A. Mohamed, Experimental and theoretical model for water desalination by humidification - dehumidification (HDH), the 3rd international conference on sustainable future of human security, Kyoto, Japan, 3-5 Nov., 2012.
 - 11- Taha E. Farrag, **Mohamed S. Mahmoud**, Wael A. Mohamed, “EXPERIMENTAL VALIDATION FOR TWO STAGES HUMIDIFICATION DEHUMIDIFICATION (HDH) WATER DESALINATION UNIT, the 17th international water technology conference, Istanbul, Turkey, 5-7 Nov., 2013.
 - 12- M. M. Nassar, T. E. Farrag, **M. S. Mahmoud**, S. Abdelmonem, Morphology-Controlled CaCO₃ Nanostructures by Modified Co-Precipitation in Pulsed Mode, 3rd International Conference on Advanced Engineering and Technology (ICAET), Seoul, Korea, 20-21 Dec, 2014
 - 13- Mamdouh M. Nassar, Taha E. Farrag, **Mohamed S. Mahmoud**, and Said Abdelmonem, **Synthesis of CaCO₃ Nanostructures and its Application as Fillers in Papermaking**, *The 5th International Conference on Green and Sustainable Innovation (ICGSI 2015) "Moving Towards Green Growth and Green Competitiveness"*
 - 14- Wael Abdelmoez, **Mohamed S Mahmoud**, Taha E. Farrag, **Feasibility Study for Locally Manufactured and Standalone Water Desalination Unit by Humidification Dehumidification Technology**, *The 5th International Conference on Green and Sustainable Innovation (ICGSI 2015) "Moving Towards Green Growth and Green Competitiveness"*
 - 15- M. A. Abdelkareem , **M. S. Mahmoud**, Mohammad R. O. Ali, Faiza A. Hammad, N.A.M. Barakat, and I. A. Ashour, **COBALT-DOPED CARBON NANOFIBERS AS EFFECTIVE ORR CATALYST**, **Proceedings of EFC2015 European Fuel Cell Technology & Applications Conference - Piero Lunghi Conference December 16-18, 2015, Naples, Italy**
 - 16- **Mohamed S. Mahmoud**, Mohammad A. Abdelkareem, Hager M. Moustafa, Mamdouh M. Nassar, and Nasser A. M. Barakat, **ELECTROCATAYLTIC ACTIVITY OF GRAPHENE CONTAINING DIFFERENT PERCENTAGES OF NICKEL TO ETHANOL OXIDATION** , **Proceedings of EFC2015 European Fuel Cell Technology & Applications Conference - Piero Lunghi Conference December 16-18, 2015, Naples, Italy**
 - 17- Wael A. Mohamed, **Mohamed S. Mahmoud**, “IMPROVING THE CONTACT PATTERN OF THE HUMIDIFICATION STEP IN THE WATER DESALINATION PROCESS BY HUMIDIFICATION DEHUMIDIFICATION TECHNIQUE,, the 21th international water technology conference, Ismailia, Egypt, 28-30 June., 2018.

(c) Books/Book Chapters

Authors, Title of Book/Chapter, Publisher (Country), Pages, Year

- Mohamed Obaid, Olfat A. fadali and **Mohamed S. Mahmoud**, "Magic of magnetic field: Influence of Magnetic Field on Removal of Copper Ions from Waste-water" LAP LAMBERT Academic Publishing, 2012

8- References

Prof. Nasser A. Mohamed Barakat

Chonbuk national University – organic material and fiber engineering Chonbuk, South Korea

Tel: +82 (063) 270-2363

Mobile: +82 (106) 7311431

E.mail: nasser@jbnu.ac.kr, nasser1995@hotmail.com

Prof. Ibrahim A K Ashour

Zowail University, Egypt

Mobile: +2 (010) 04848241

E.mail: ibrahim.ashour@gmail.com