

# Mohamed Said Mahmoud

Associate Professor of Environmental Chemistry

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## Date and Place of Birth

October 28, 1982

## Nationality

Egyptian

## Biography

Over ten-years of scientific career in multiple locations including Faculty of Science at Al- Azhar University, Hot Laboratory Center at Egyptian Atomic Energy Authority (EAEA). I am represented as researcher for lignocellulosic-based biorefinery at China National Pulp and Paper Research Institute (CNPPRI), Beijing, **China** I am represented as researcher for lignocellulosic-based biorefinery at China National Pulp and Paper Research Institute (CNPPRI), Beijing, China during the year of 2017. I am now Assistant Professor of Environmental Chemistry & Director of R&D at Sanitary & environmental Institute (SEI) at Housing and Building National Research Center (HBRC), **Egypt** with an academic excellence and scientific success certificates. I am also representing a part time consultant for Bureau of Science & Technology, Institute of Science & Technology Cooperation and Innovation Development (ISTCID), Inner Mongolia Autonomous Region, **China**. Experiences gained from several International Joint Cooperation (IJC) projects in field of water and wastewater treatment and water quality assessment with South Africa, Japan, USA, Italy and China. I have gained national and International memberships including Egyptian Young Academy of Science (EYAS), Ocean Expert (Directory of Marine and Freshwater Professionals), American Chemical Society (ACS), Royal Society of Chemistry (RSC), American Association for Science and Technology (AASCIT), We The Microbiologist (WTM), the International Association of Engineers (IAENG), the New York Academy of Sciences, International Association of Hydrological Sciences (IAHS), International Society for Environmental Information Sciences (ISEIS), Society of Environmental Toxicology and Chemistry (SETAC) in Africa. I am also reviewer and editorial board of different high ranked journals including the World Academy of Science, Engineering & Technology (WASET), Research on Chemical Intermediates (RINT) and Brazilian Archives of Biology & Technology. My research interests are deeply focused on bioremediation, biodegradation and nano-materials for water and wastewater treatment systems. This includes planning and preparation of research proposals, supervision of technical staff and students, initiating new lines of research and performing innovative cross discipline research, presenting lecturers in training courses and presenting papers at conferences. I am usually proposing systems which remediate and transform pollution which rely on the ability of eco-friendly and low cost environmental materials including biological, chemical, physical and their constituents both naturally occurring and induced to support natural attenuation of the environment. International Joint Cooperation (IJC), scientific memberships, reviewer and editorial activities of research articles, conferences, workshops, seminars, preparing and teaching course materials are represents all of my scientific activities.

My research interests using of all optical devices and spectroscopy instruments in order to measure the quality before and after treatment of water and wastewater using different eco- friendly and low cost environmental materials including biological, chemical, physical and mathematical modeling. My recent researches cover the use of Microbial Fuel Cell (MFC) for both electricity production and wastewater treatment. I am also interested with preparing and teaching course materials.

## Joint Cooperation Proposals:-

- Represented as Egyptian PI at Egypt-China Proposal Joint cooperation with title “Key Technology of Resource Utilization of Pulping Effluent from Agricultural Residues” with China National Pulp and Paper Research Institute, 08/2017.
- Represented as Egyptian PI at Collaborative Research Programme CRP-ICGEB Research Grant with title “Bioethanol production from different organic sources in a pilot-scale modeling (pretreatment and enzymatic study) with collaboration of institutes and universities from Italy, China, USA and India.
- Represented as Egyptian PI at US-Egypt Joint Board on Scientific and Technological cooperation – Junior Scientist Development Visit Grants with Prof./ Mari Winkler, assistant professor, civil and Environmental Engineering, University of Washington, USA, 09/2016.
- Represented as Egyptian PI at Joint Egyptian Japanese Scientific Cooperation (JEJSC) with title “Application of micro-bubble technique for treatment of organic-rich wastewater” with Faculty of Agriculture, Yamagata University, Japan, 08/2016.
- Represented as Egyptian PI at South Africa / Egypt Joint Science and Technology Research collaboration with Prof/ Ademola O. Olaniran, School of life sciences at the University of KwaZulu-Natal, South Africa, 05/2016.

**Education**

Academic Degree	University/School	General Specialization:	specific Specialization	Location	Grade	Year
Ph.D. Science	Faculty of Science, Al-Azhar University	Microbiology	Applied Mycology	Cairo, Egypt	Awarded	April, 2012
Professor Advisors:	EL-Tayieb, M.M.; El- Shafei, M.M (Housing and Building National Research Center) El-Sheikh, H.H. and Abdel-Ghany, T.M. (Faculty of Science, Al-Azhar University)					
Topic:	Biotechnological application of wastewater treatment using fungi					
M.Sc. Science	Faculty of Science, Al-Azhar University	Microbiology	Applied Mycology	Cairo, Egypt	Awarded	June, 2009
Professor Advisors:	Abdel-Razek, A.S. and Mahmoud , S.A. (Atomic Energy Authority) El-Sheikh, H.H. and Abdel-Ghany, T.M. (Faculty of Science, Al-Azhar University)					
Topic:	Biotechnology of liquid radioactive and hazardous wastes treatment using certain fungi					
B.Sc. Science	Faculty of Science, Al-Azhar University	Microbiology- Chemistry		Cairo, Egypt	Excellent-honor grade	May, 2004

**Working Experiences**

Job Title	Employer	Location	Year
Assistant Professor	Sanitary and Environmental Institute (SEI), Housing and Building National Research Center (HBRC)	87 El-Tahrir St., Dokki, Giza, 11511, Egypt. <b>P.O. Box:</b> 1770 Cairo <b>Tel:</b> (+202)37617102, 37617092 <b>Fax:</b> (+202)33351564, 37628736 <b>e.mail:</b> <a href="mailto:hbrc@hbrc.edu.eg">hbrc@hbrc.edu.eg</a>	12/2017 - Current
part time consultant	Bureau of Science & Technology, Institute of Science & Technology Cooperation and Innovation Development (ISTCID),	Inner Mongolia Autonomous Region, China	10/2017- 10/2019
Researcher	China National Pulp and Paper Research Institute (CNPPRI)	Sinolight Plaza, 4# Qiyang Road, Wangjing, Chaoyang Disdriect, Beijing, China Phone: 86-10-64778065 Cell: 86-15101180352 Email: <a href="mailto:chgong1231@163.com">chgong1231@163.com</a>	3/2017 – 3/2018
Job Description	- <b>Researcher of lignocelluloses-based bio-refinery</b> at Environmental technology lab, China National Pulp and Paper Research Institute (CNPPRI), Beijing, China, under the Talented Young Scientists Program (TYSP) during the year of 2017.		
Researcher	Sanitary and Environmental Institute (SEI), Housing and Building National Research Center (HBRC)	87 El-Tahrir St., Dokki, Giza, 11511, Egypt. <b>P.O. Box:</b> 1770 Cairo <b>Tel:</b> (+202)37617102, 37617092 <b>Fax:</b> (+202)33351564, 37628736 <b>e.mail:</b> <a href="mailto:hbrc@hbrc.edu.eg">hbrc@hbrc.edu.eg</a> <a href="https://www.hbrc.edu.eg">https://www.hbrc.edu.eg</a>	12/2012 -12/2017
Job Description	- <b>Researcher of Environmental technology and director of R&amp;D Unit</b> at Sanitary and Environmental Engineering Institute (SEI), Housing and Building National Research Center (HBRC), Egypt, from 5/12/2012 till current. - <b>Technical manager</b> of Chemistry lab for water and wastewater and Lead a team of three graduate students for different research projects in Wastewater treatment and Drinking water.		
Assistant Lecturer	Sanitary and Environmental Institute (SEI), Housing and Building National Research Center (HBRC)	87 El-Tahrir St Dokki, Cairo, Egypt	6/2009- 12/2012
Job Description	- Proceed different water analysis and prepare my Ph.D. research work		
M. Sc. fellowship	Scientific Research and Technology Academy	Waste Management Facilities, Radiation Protection Department, Egyptian Atomic Energy Authority (EAEA) – Egypt	12/2005- 12/2008

Job Description	- Proceed different water analysis and prepare my M.Sc. research work		
Demonstrator	Botany and Microbiology department, Faculty of Science, , Al-Azhar University	Cairo, Egypt	second semester of 2006
Job Description	- Prepare and teach practical courses for the first class of Biological Division including many courses (bacterial counts, biochemical analysis, enzymatic assays and Bacterial Taxonomy)		

### Award

- SCIENTIFIC SUCCESS CERTIFICATE FROM AL-AZHAR UNIVERSITY– FACULTY OF SCIENCE.

### Publications

#### ● Journal Articles

1. Zhen-Hua Su, Shu-Jie Fan, Yu Zhang, Chao Tian, Chen Gong, Jian-Ping Ni, Bin Yang, Feng Peng, Mika Korkko, and **Mohamed S. Mahmoud**, (2020). Industrial Scale-up of Fiber Recovery Technology from Mixed Office Waste Fine Screen Reject, *BioResources*, 2020, 15(3): 6420-6430, DOI: 10.15376/biores.15.3.6420-6430.
2. Zhen-Hua Su, **M.S. Mahmoud**, ShuJie Fan, Yu Zhang and Feng Peng, (2019). Combustion Properties of Mixed Black Liquor Solids from Linter and Reed Pulping, *BioResources*, 2019, 14(2): 8278-8288, DOI: 10.15376/biores.14.4.8278-8288.
3. **Ahmed M. Abou Elmagd, M.S. Mahmoud**, (2019). The synergetic effect of a fungal biofilm and an adsorbent media in a fluidized bed system, on the wastewater treatment. *Australian Journal of Basic and Applied Sciences*, 2019 January; 13(1): pages 86-95, DOI: 10.22587/ajbas.2019.13.1.11.
4. **Ahmed S. Mahmoud, Aya Ismail, Mohamed K. Mostafa, M. S. Mahmoud, Wageh Ali & Amira M. Shawky** (2019). Isotherm and kinetic studies for heptachlor removal from aqueous solution using Fe/Cu nanoparticles, artificial intelligence, and regression analysis. *Separation Science and Technology*, ISSN: 0149-6395 (Print) 1520-5754 (Online), <https://doi.org/10.1080/01496395.2019.1574832>.
5. **ShuJie Fan, M. S. Mahmoud, Biao Wen, ZhenHua Su and Yu Zhang** (2018). Bioelectric Activity of Microbial Fuel Cell during Treatment of Old Corrugated Containerboard Discharges. *BioResources*, 2018, 13(2): 3545-3553.
6. **M.S. Mahmoud, Biao WEN, ZhenHua SU, ShuJie FAN, Yu ZHANG** (2018). Parameters Influencing Power Generation in Eco-Friendly Microbial Fuel Cells. *Paper and Biomaterials (PBM)*, 2018, 3(1): 10-16..
7. **Rasha A. SaryEl-deen, Ahmed S. Mahmoud, M.S. Mahmoud, Mohamed K. Mostafa, and Robert W. Peters**. (2017). Adsorption and Kinetic Studies of using Entrapped Sewage Sludge Ash in the Removal of Chemical Oxygen Demand from Domestic Wastewater, with Artificial Intelligence Approach, 2017 Annual AIChE Meeting; Minneapolis, MN, October 29 - November 3, 2017.
8. **Mohamed S. Mahmoud, Mohamed K. Mostafa, Samah A. Mohamed, Neama A. Sobhy, Mahmoud Nasr**, (2017)."Bioremediation of red azo dye from aqueous solutions by *Aspergillus niger* strain isolated from textile wastewater" *Journal of Environmental Chemical Engineering* 5: 547–554.
9. **Mahmoud, M.S. and Samah A. Mohamed** (2017). "Calcium alginate as an eco- friendly supporting material for Baker's yeast strain in chromium bioremediation" *HBRC Journal*, 13(3): 245–254, December 2017.doi:10.1016/j.hbrcj.2015.06.003.
10. **Mahmoud, M.S.** (2016). "Decolorization of Certain Reactive Dye from Aqueous Solution using Baker's Yeast (*Saccharomyces cerevisiae*) Strain" *HBRC Journal* 12(1): 88–98, April 2016. doi:10.1016/j.hbrcj.2014.07.005.
11. **Mohamed K. Mostafa, Mohamed S. Mahmoud and Robert W. Peters** (2016). "Use of statistical analyses to assess water quality at the Damietta branch of the Nile river, Egypt" *J. of Environment and Biotechnology Research*, 2(1): 16-26.
12. **Abdeen, Z; Mohammad, S.G; Mahmoud, M.S.** (2015). "Adsorption of Mn (II) ion on polyvinyl alcohol/chitosan dry blending from aqueous solution" *Environmental Nanotechnology, Monitoring & Management*, 3: 1–9.
13. **Mahmoud, M.S.** (2014). "Banana Peels as an Eco-Sorbent for Manganese Ions" *International Journal of Biological, Veterinary, Agricultural and Food Engineering*, **8(11)**: 1065-1071, eISSN: 1307-6892.
14. **Abou Elmagd, A. M. and Mahmoud, M.S.**, (2014) "Tannery Wastewater Treatment Using Activated Sludge Process System (Lab Scale Modeling)" *International Journal of Engineering and Technical Research (IJETR)* ISSN: 2321-0869, **2(5)**, May 2014

15. **Mahmoud, M.S. and Abou Elmagd, A. M., (2013)** "Characterization of alginate polymer and its application in copper removal from liquid wastes" Journal of American Science 9(11): 432- 439. <http://www.jofamericanscience.org>.
16. **EL-Tayieb, M.M.; El- Shafei, M.M. and Mahmoud, M.S., (2013)** "The role of alginate as polymeric material in treatment of tannery wastewater" International Journal of Science and Technology 2(2): 218-224.
17. **Abdel-Razek, A.S.; Abdel-Ghany, T.M.; Mahmoud, S.A.; El-Sheikh, H.H.; Mahmoud, M.S., (2009).** "The use of free and immobilized *Cunninghamella elegans* for removing cobalt ions from aqueous waste solutions" World Journal of Microbiology and Biotechnology 25 (12) , pp. 2137.
18. **Abdel-Razek, S. A; Abdel-Ghany, M. T; Mahmoud, A. S; El- Sheikh, H. H. and Mahmoud, S. M., (2009).** "Treatment of Liquid Hazardous Wastes By Using The Fungus *Cunninghamella elegans*." J. Rad. Res. Appl. Sci., 2(5) : 890 – 902.
19. **Abdel-Razek, A.S.; Mahmoud, S.A.; El-Sheikh, H.H.; Abdel-Ghany, T.M.; Mahmoud, M.S., (2008).** "Studies including tolerance, affinity and capacity of certain fungal species for some toxic elements in aqueous solution" Al-Azhar Bull. Sci. Vol.19(2) Dec. pp. 29-40.

#### • **Conference Articles**

- 1 **Hala A. Hegazy, A.M. Abdel Meguid, M.S. Mahmoud, S.M. Ragheb (2019).** "Hydrological and meteorological evaluation of ground water in Matrouh city, Egypt – Case study" 11<sup>th</sup> International conference on Nano-Technology in Construction (Green and Sustainable Construction) NTC 2019, 22-25 March, 2019, Sharm El-Sheikh, Egypt.
- 2 **Safaa M. Ragheb, Nouran Y. Mohamed and Mohamed S. Mahmoud (2019),** Hydroxyapatite / Chitosan Nanocomposite Materials as Potential Adsorbent for Cr Removal From Aqueous Solution, 8<sup>th</sup> International Conference on Water Resources and Arid Environments (ICWRAE 8): 680-690, 22-24 January 2019, Riyadh, Saudi Arabia.
- 3 **Maha Mostafa El Shafei and Mahmoud M.S., (2015).** "Enhanced sorptive reduction of phosphate ions from wastewater using activated red mud" Seventh International Conference On Nano-Technology In Construction, Sharm El-Sheikh, Egypt, 2015.
- 4 **El- Shafei, M.M.; El-Sheikh, H.H.; EL-Tayieb, M.M. and Mahmoud, M.S., (2012)** "Treatment of tannery wastewater using free and immobilized cells of sodium hydroxide treated *A. niger* strain" 2<sup>nd</sup> International Conference and Exhibition Sustainable Water Supply and Sanitation (SWSSC) held during 3 –5 December 2012 at the Cairo In'l Conference Center in Cairo–Egypt.

#### **Academic Visiting Scholars**

- Honored invitation from the National Center for International Joint Research on Membrane Science and Technology and Key Laboratory of Separation Membranes and Membrane Processes, School of Materials Science and Engineering, Tianjin Polytechnic University, TGU, China as a Visiting Academic from November 27 - 30, 2019.

#### **External Postgraduate Record**

- Examiner of Doctoral theses entitled "REMOVAL OF TOXIC METALS FROM ACID MINE DRAINAGE USING HYBRID ION-EXCHANGE METAL OXIDE NANOCOMPOSITES" submitted by CAROLINE LOMALUNGELO DLAMINI., UNISA, Department of Chemistry, South Africa, April, 2020.
- Examiner of Doctoral theses entitled "Treatment of lipid-rich wastewater using free and immobilized bioemulsifier and hydrolytic enzymes from indigenous bacterial isolates" submitted by Mr/ Adegoke Isiaka Adetunji., College of Agriculture, Engineering & Science University of KwaZulu-Natal, South Africa, December, 2017.

#### **Reviewer Activities**

- Editorial Board Member of Emergent Life Sciences Research, <http://emergentresearch.org/>.
- Editorial Board Member of Chemistry Research Journal, <http://chemrj.org/editorial-board/>.
- Editorial Board Member of SCIREA Journal of Chemical Engineering, <http://www.sscirea.org/journal/EditorialBoard?JournalID=53000>.
- Editorial Board Member of SCIREA Journal of Chemistry, <http://www.scirea.org/journal/EditorialBoard?JournalID=15000#1930>.
- Scientific and Technical Committee & Editorial Review Board Member at World Academy of Science, Engineering and Technology, February 14, 2015.
- Reviewer at Journal of Environmental Chemical Engineering.
- Reviewer at Water Science and Technology at <http://wst.edmgr.com>.
- Reviewer at Polish Journal of Chemical Technology
- One of the Technical Committees of the 2016 8<sup>th</sup> International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2016) will be held during September 24-



- 26, 2016 in Toronto, Canada, <http://www.icbee.org/com.html>.
- Reviewer at the Research on Chemical Intermediates (RINT), June, 2016.
- Reviewer at the Brazilian Archives of Biology and Technology, March, 2016.
- Reviewer at International Conference on Agricultural and Biological Sciences (ABS2015).

## Memberships

- Member in the group 'European Microbiology Expert Group, JRC Science Hub Communities located at : <https://ec.europa.eu/jrc/communities/community/emeg>
- Member of EU4FACTS - Evidence for Policy Community, JRC Science Hub Communities located at : <https://ec.europa.eu/jrc/communities/community/evidence4policy>
- Member of American Chemical Society Membership No.: **31183815**.
- Member of Ocean Expert (Directory of Marine and Freshwater Professionals).
- Membership of the American Association for Science and Technology (AASCIT), Membership No.: **1005303**.
- Membership of the Royal Society of Chemistry (RSC) Membership number: **577081**.
- Membership of We The Microbiologist (WTM), India.
- Membership of the International Association of Engineers (IAENG) Membership number: **161506**.
- Member of Science Research Association (SCIREA), membership No. **1101709**, (<http://www.scirea.org/login>).
- Membership of the New York Academy of Sciences.
- Membership of International Association of Hydrological Sciences (IAHS) Number: **15118**, UK.
- Membership of the International Society for Environmental Information Sciences (ISEIS), Canada.
- Membership of Society of Environmental Toxicology and Chemistry (SETAC) in Africa.
- Membership of Egyptian scientific syndicate.

## Skills

**English Languages:** Fluent in speaking, listening and writing.

**Computer :** Awarded the International Computer Driving License (ICDL) Certificate include Concepts of Information Technology (IT), Using the Computer and Managing Files, Word Processing, Spreadsheets, Database, Presentation and Information and Communication (10/2010).

**Skill Card Number :** EGY000264348.

**Programming:** Microcal Origin 5.0, Minitab 15 and SPSS for statistical analysis

## Training Courses, Seminars and Workshops:-

1. Completion the online summer school activity "The CODATA-RDA Research Data Science Summer School" supported by the Abdus Salam International Centre for Theoretical Physics (ICTP), 31 August 2020 to 11 September 2020.
2. Completion the workshop course "Statistical analysis in Academic Research" at the Military Medical Academy, 21-22 September, 2019.
3. Accepted to participate in the "Winter College on Applications of Optics and Photonics in Food Science" held at the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy from 11-22 February 2019.
4. Successfully completed course on General Requirements for the Competence of Testing & Calibration Laboratories According to ISO / IEC 17025-2017, Cairo, Egypt, 26-28 Nov. 2018. Under Supervision of EOS (Egyptian Organization for Standardization & Quality).
5. Training course on "International Training Workshop on Pulp and Papermaking Technologies of Non-Wood Fiber Materials" in the period 21/08/2017 – 09/09/2017 at China National Pulp and Paper Research Institute (CNPPRI), Beijing, China under the auspices of department of International Cooperation, Ministry of science and technology (MOST), China.
6. Training course on "International Training Workshop on Mineral Resources Exploration & Environmental Treatment Application Technologies" in the period 18/07/2017 – 06/08/2017 at Inner Mongolia Institute for Scientific and Technological Cooperation and Innovation, Inner Mongolia University of Science & Technology, Hohhot, China under the auspices of department of International Cooperation, Ministry of science and technology (MOST), China.
7. Training course on "YZU Training Program of Molecular Biology Experimental Technology" in the period 15/11/2015 – 05/12/2015 at College of Bioscience and Biotechnology, Yangzhou University, Yangzhou, Jiangsu, China.
8. Participate in workshop entitled "Publishing in high ranked journals" Under auspices of Academy of Scientific Research and Technology (ASRT) and Royal Society of Chemistry (RSC), NIDOC, 3<sup>rd</sup> of May, 2015.
9.  $\Omega$  Metrohm Ion Chromatography & Titration seminar around "Ion Chromatography IC" produced by Agitech Technologies (Arabian Group for Integrated Technologies) Company Experts, Held in Dusit Thani Lakeview Cairo on September 15, 2014.

10. Participate in workshop program in TITLE: "Egyptian Standard Specification for the Analysis of Commercial Products - Analysis by Chromatographic instruments (GC and GC-MS)" at Chemistry Administration, Ministry of Industry and Foreign Trade at 27th of November, 2013.
11. Agilent-Agitech spectroscopy seminar around "New Technologies of Atomic and Molecular spectroscopy" produced by Agilent Technologies Company Experts, Held in Novotel Cairo airport Hotel on March 6, 2013.
12. Training course on "Gas Chromatography" in the period 03/06/2012 - 14/06/2012 at National Research Center (NRC).
13. Participate in the activates of the African workshop on "The Role of Reference Materials in Water Analysis" Held in National Institute of Standards (NIS) in the Period 8-9 May 2012.
14. Training course in "Nanoscience and Nanotechnology" Held from 5<sup>Th</sup> to 7<sup>Th</sup> April 2011 at Nanoscience and Nanotechnology unit Beni-Suef University.
15. Environmental Friendly Infrastructure Training Course, Cairo – Egypt – October 18- 22, 2010.
16. Fundamental principles and concepts for the International Standard ISO 9001:2008 and its Implementation from National Quality Institute (NQI) – Egypt 2010.
17. Advanced Wastewater Management of the Egypt Urban Development program from UNESCO-IHE (Institute for Water Education) 2009.
18. Medical analysis training course – Elsayed Galal Hospital – Cairo – Egypt – 2003.

### **Lecture's Presentation**

Prepare and teach course material for the following

1. Lecture director and leading the organizing committee at Housing and Building National Research Center, Egypt in training Course Program (Summer Training Program for advanced Laboratories in Field of Water and Wastewater" Chemical analysis "Gas Chromatography, Atomic Absorption Spectrophotometer and UV-Vis Spectrophotometer" from 14 to 16 August, 2018.
2. Lecture director at National Organization for Potable water & Sanitary Drainage – Egypt in training Course Program (Chemical analysis for Potable water) in TITLE: "Potable water characterization – Sampling – Sample preservation – Water chemical analysis and quality control" From 16 to 20 February, 2014.
3. Lecture director at National Organization for Potable water & Sanitary Drainage – Egypt in training Course Program (Chemical analysis for wastewater) in TITLE: "wastewater characterization (Chemical, Physical and biological) – Sampling – Sample preservation – chemical analysis and quality control" From 17 to 21 Feb 2013.
4. Lecture director at National Organization for Potable water & Sanitary Drainage – Egypt in training Course Program (Chemical analysis for Potable water) in TITLE: "Potable water characterization – Sampling – Sample preservation – Water chemical analysis and quality control" From 9 to 13 December 2012.
5. Lecture director at UTI – Housing and Building National Research Center – Egypt – in training Course Program (Advanced Laboratories) in TITLE: " Atomic Absorption Spectrophotometer Instrumentation and Metal analysis" From 11 to 13 January 2011.

### **Conferences**

1. Participated in and completed online Conference on Quantum Annealing/Adiabatic Quantum Computation from 05 - 06 Oct 2020 supported by The Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy.
2. Participated in 5<sup>th</sup> Middle East Green Building Conference & Exhibition from 20- 21 April, 2016 - Sofitel El Gazirah Hotel – Egypt.
3. Participated in Conference on Sensing, Information and Decision at the Cellular Level, from 14 – 17 July, 2015 at The Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy.
4. Participated in 7<sup>th</sup> International Conference On Nano-Technology In Construction, from 27 -31 March, 2015, Sharm El-Sheikh, Egypt.
5. Participated with oral and technical presentation in ICAE 2014: XII International Conference on Agricultural Engineering from November 25-26, 2014. International Scientific Research and Experimental Development, Dubai, UAE.
6. Participated with paper in the "2<sup>nd</sup> International Conference and Exhibition Sustainable Water Supply and Sanitation (SWSSC) held during 3 –5 December 2012 at the Cairo In'l Conference Center in Cairo–Egypt.
7. Participated in the "1<sup>st</sup> International Conference and Exhibition Sustainable Water Supply and Sanitation (SWSSC) held during 25–27 July 2010 at the Cairo In'l Conference Center in Cairo–Egypt.

### **Online Certificates**

1. Attended the online activity "Using research metrics and indicators effectively in grant proposals" at Egyptian Knowledge Bank, on Thursday 24 September, 2020

2. Attended the MOOC activity "Going Places with Spatial analysis" supported by esri (The Science of Where) for six weeks, completed on September 18, 2020.
3. Successful achievement of the "General Training on Intellectual Property for Egypt DL101AEG", from 01-Apr-2019 to 01-Jun-2019 under WIPO (World Intellectual Property Organization), WIPO eLearning Center, <https://welc.wipo.int/>, 01-Apr- 2019 — 01-Jun-2019
4. PREPARING YOUR MANUSCRIPT BY ELSEVIER PUBLISHING CAMPUS, 17 May, 2017.

### Other Activities

1. Technical Manager of Chemistry Lab at Water and Wastewater at Sanitary and Environmental Institute, Housing and Building National Research Center that attained IAS17025 from 2011 till now.
2. Participated as Technical Honest in Egyptian Code for design criteria and terms of execution of municipal solid wastes management systems from February 2013 till now.
3. Participated as Technical Honest in Egyptian Code for design criteria and terms of execution of desalination plants from January 2012 till now.

### Research Profiles

**M. S. Mahmoud**

Researcher at Housing and Building National Research Center

<b>ORCID identifier</b>	<b>0000-0002-7224-6232</b>
<b>Researcher ID</b>	<b>A-1961-2015</b>
<b>Scopus Author ID</b>	<b>56707600400</b>
<b>h-indexScopus</b>	<b>4</b>
<b><a href="http://www.scopus.com/authid/detail.url?authorId=56707600400">http://www.scopus.com/authid/detail.url?authorId=56707600400</a></b>	
<b>Scopus total citations</b>	<b>99</b>
<b>Google Scholar h-index</b>	<b>9</b>
<b>Google Scholar total citations</b>	<b>244</b>
<b><a href="https://scholar.google.com/citations?user=AL-PBLA-A-A-A-A-A&amp;hl=ar">https://scholar.google.com/citations?user=AL-PBLA-A-A-A-A-A&amp;hl=ar</a></b>	
<b>Researchgate Score</b>	<b>8.1</b>
<b><a href="https://www.researchgate.net/profile/Mohamed_Mahmoud105/reputation">https://www.researchgate.net/profile/Mohamed_Mahmoud105/reputation</a></b>	

### References

**Hala A. Hegazy**, Professor and Director of Sanitary and Environmental Engineering Institute, Housing and Building National Research Center, Egypt.

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**Ashraf Aly Hassan, Ph.D., P.E**, Senior Process Engineer BioAir Solutions, LLC 110 Kresson- Gibbsboro Road, Suite 303 Voorhees, NJ 08043, Department of Civil Engineering, College of Engineering, University of Nebraska–Lincoln, USA.

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**Mohamed K. Mostafa, Ph.D.**, Research Associate at Department of Civil, Construction, and Environmental Engineering, University of Alabama at Birmingham, 1075 13th Street South, Birmingham, AL 35294- 4440, phone: (205)-540-0550, USA.

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**Professor Titus A.M. Msagati**, College of Science Engineering and Technology, University of South Africa (UNISA), The Science Campus P/Bag X6,Cnr Christiaan De wet and Pioneer Avenue, Florida Park, Roodepoort 1709, Johannesburg, Office Tel: +27 22 670 9482, Mobile Tel: +2772 311 0693, South Africa.

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**Professor Giuliano Degrassi, PhD**, Coordinator, Industrial Biotechnology Group IBIOBA-ICGEB International Centre for Genetic Engineering and Biotechnology Polo Científico Tecnológico Godoy Cruz 2390, C1425FQD, Bs. As., Argentina, Italy.

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**Professor Ewald Hetteema, PhD**, Department of Molecular Biology and Biotechnology at University of Sheffield, UK.

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**Professor Maha Moustafa El-Shafai**, Professor at sanitary and environmental Engineering institute, Housing and Building National Research Center, Egypt.

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