

Curriculum Vitae

Dr. Nour Shafik Emam El-Gendy

Professor of Petroleum and Environmental Biotechnology

**Acting Head of Process Design & Development Department,
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<https://scholar.google.com/citations?user=Rs8E2NIAAAAJ&hl=en>

Website: https://www.researchgate.net/profile/Nour_El-gendy

<https://www.linkedin.com/in/nour-el-gendy-69905283/>

Total International Publication: 107 Manuscripts 4 Book Chapters 4 Books

Google Scholar Citations: 813

Google Scholar h-index: 13

Google Scholar i10-index: 22

Research Gate Citations: 704

RG-Score 27.92

Scopus Publication: 73

Scopus Citations: 471

Scopus h-index: 10

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ORCID Number: <http://orcid.org/0000-0002-5154-7124>

Academic Degree:

2016: Professor of Petroleum and Environmental Biotechnology.

2011: Associate Professor of Environmental Biotechnology.

- 2005:** Ph.D. Degree in Biochemistry, Cairo University
 Refereed in; University of Exeter, England and Gas Technology Institute, USA.
The thesis entitled;
 "Biodesulfurization Potentials of Crude Oil by Bacteria Isolated from Hydrocarbon Polluted Environments in Egypt"
- 2001:** MSc Degree in Biochemistry, Cairo University
 Refereed in; University of Westminster, England.
The thesis entitled;
 "Biodesulfurization of Organosulfur Compounds in Crude Oil and its Fractions"

Education Certificates:

- 1998:** Preparatory courses for a Master's Degree in Biochemistry, Cairo University.
1997: Bachelor of Science Degree in Chemistry, Cairo University, Honor Roll, Very Good.
1993: Secondary School termination certificate (Thanawaya Ama) from "La Rose De Lisieux", English language school.

Work Experience:

Since I've started my working carrier in 1998, I've helped in the establishment of the School of Petroleum and Environmental Biotechnology in the Egyptian Petroleum Research Institute (EPRI).

- 2018 ~ :** **Acting Head of** Process Design & Development Department, Egyptian Petroleum Research Institute, EPRI.
2018 ~ : **Member** in Center of Excellence in Modern Sciences and Arts, MSA University, Egypt.
2001 ~ : **Part time**, as a Research analyst at EPRI Central analytical Labs.
2016 ~ : **Professor** in the field of Petroleum and Environmental Biotechnology at "Egyptian Petroleum Research Institute".
- 2017-2018:** **Advisor** for the Egyptian Minister of Environment, in the field of pollution caused by petroleum and chemical industries.
- 2017-2018:** **Vice Head of** Process Design & Development Department, Egyptian Petroleum Research Institute, EPRI.
2012-2017: **Head manager** of Petroleum Biotechnology Lab., Process Design & Development Department, Egyptian Petroleum Research Institute, EPRI.
2011-2016: **Associate Professor** in the field of Environmental Biotechnology at "Egyptian Petroleum Research Institute".
- 2005-2011:** **Researcher** at "Egyptian Petroleum Research Institute".
2003: **Member** in the team work responsible for organization, construction and setting up of Petroleum Biotechnology Lab., Process Design & Development department, EPRI.
2001: **Member** in the team work responsible for organization, construction and setting up of EPRI Central analytical Labs.
- 2001-2005:** **Research Associate** at "Egyptian Petroleum Research Institute".
1998-2001: **Assistant Research** at "Egyptian Petroleum Research Institute".
1997: **Summer trainee** at As-Salam International Hospital, Cairo, Egypt.
1996: **Summer trainee** at the National Research Center, Cairo, Egypt.

Teaching Experience:

- I've started my teaching career since I was awarded my PhD degree in 2005, throughout the teaching of different training courses in the field of Petroleum and Environmental Biotechnology at Egyptian Petroleum Research Institute (EPRI).
- Established a training about "Water Microbiology in Petroleum Industry" during Zohr practical training program in EPRI Central Labs for Belayim Petroleum Company – Petrobel - (Zohr Field lab staff) - 2018.
- I've worked as a part-time lecturer and supervisor for undergraduates' research projects;

within 2007-2008, at the **Faculty of Biotechnology in Modern Sciences and Arts, MSA University, Egypt.**

within 2011-2013, at the **Chemical Engineering Department, Faculty of Engineering, Cairo University, Egypt.**

within 2012-2014, at the Chemical Engineering Department, Faculty of Engineering, British University in Egypt BUE.

- within 2014-2015, I've helped in the establishment of the School of Biotechnology in Chemistry Department, Faculty of Science, Menoufia University, Egypt, with a new curriculum and developing a course in Environmental Biotechnology; for postgraduate students.
- within 2011-2018, I've supervised undergraduates' research projects; at the Chemical Engineering Department, Faculty of Engineering, Cairo University, Egypt.
- I was a committee member for the preparation of the undergraduate Biochemical Engineering Program of Faculty of Energy and Environment in the British University in Egypt (BUE).
- within 2017-2018, I've taught Bionanotechnology course for the postgraduate Biotechnology Program, Faculty of Science, Cairo University.
- Currently, lecturer at the Faculty of Biotechnology in Modern Sciences and Arts, MSA University, Egypt.

Technical experience:

- **Expert in the field of;** environmental pollution and its treatment, petroleum and industrial wastewater treatment, recycling and valorization of wastes, environmental biotechnology, bioenergy, petroleum microbiology and biotechnology, petroleum upgrading, biocorrosion, green chemistry and nanobiotechnology.
- **Expert in;** organization, construction, setting up and management of laboratories for; water, microbiology, biotechnology and oil routine analyses.
- **Familiar with;** the general requirements for the competence of calibration and testing laboratories according to ISO/IEC17025.

Lab. Skills: **Expertise in;** oil, gas, water and biofuels analyses according to ASTM and IP standard procedures. Have a good scientific and technical background about the equipment and facilities used for these purposes.

Have a good experience in; reporting and interpretation of data analysis.

Have a good experience in; kinetic analysis and statistical optimization.

Familiar with; different chromatographic, spectrophotometric and microscopic techniques, surface and thermogravimetric analyses and instrumentation for characterization of nanobiocatalyst and biocorrosion.

In addition to; good experience in different microbiological techniques since 1998 up till now.

Experience in the Field of Environment as advisor to the Egyptian Minister of Environment:

- Preparation and submission of technical consultations in the fields of: pollution, desalination, recycling of agricultural waste, energy and biofuels.
- Follow-up and revise the file of pollution of the Gulf of Suez in the Ministry of Environment and the reports of the facilities that drain in the Gulf.
- Follow-up the file of environmental inventory of the industrial zone - Kom Abu Rady in Beni Suef Governorate.
- Follow-up the development and upgrading of the efficiency of central laboratories and laboratories of the branches of the Ministry of Environment.
- Participating in following-up the plan of the branches of the ministry and increasing the efficiency of its labs.
- Preparing reports on the environmental impacts of off-shore gas fields and the most concerned important environmental protection techniques.
- Preparing reports on the environmental impacts of oil and gas fields and the most concerned important environmental protection techniques.
- Contributed in the preparation of reports on the environmental situation of Rasheed Branch and the problem of fish mortality and developed proposals to eliminate this phenomenon.

- Reviewing and evaluating the environmental impact assessment studies submitted to the Ministry.
- Follow-up cooperation between the Ministry and Italy in the field of biogas.
- Follow-up the project files for the construction of the treatment plants of polluted water and the drilling products associated with the production of oil and natural gas.
- Acting as the coordinator between the ministry and universities, research institutes and centers regarding aspects of cooperation.
- The focal point for coordination between the Ministry of Environment and the Ministry of Water Resources and Irrigation on the elimination of lake pollution (sanitary / agricultural / industrial ...) and implementation of the required projects in this regard.
- The representative of the ministry as a technical member to attend the meetings to discuss the issue of the law of protection of lakes and the criminalization of infringement under the chairmanship of the Minister of People's Affairs.

Committee Membership:

- 2016 ~ : **Vice Coordinator** of the “Scientific Research Committee”, National Council for Women (NCW) of Egypt.
- 2017 ~ : **Member** in the “Rural Woman Committee”, National Council for Women (NCW) of Egypt.
- 2017 ~ : **Member** in the “Committee of Biofuels” at the **Egyptian Organization for Standards & Quality (EOS)**
- 2018 ~ : **Executive Committee Member** in the “Egyptian Young Academy of Sciences” (EYAS).
- 2018: **Member** of the “National Committee for the Modernization of the Emergency Plan to Address Marine Oil Pollution Accidents”.
- 2018: **The representative** of the “Egyptian Ministry of Environment” in the “Committee for Monitoring Water Desalination Projects”. That is held at the “General Office of the Egyptian Ministry of Military Production” under the chairmanship of the “Egyptian Minister of Military Production”.
- 2018: **The representative** of the “Egyptian Ministry of Environment” in the Committee for Inventorying the Sources of Pollution on Rosetta Branch” headed by the “Head of the Central Administration for Monitoring and Evaluation of Sewage Networks” – Egyptian Ministry of Water Resources and Irrigation.
- 2018: **The representative** of the “Egyptian Ministry of Environment” in the “Committee for Identifying the Best Opportunities for Implementing Some of the Ideas and Theses that Were Presented during the Conference: Egypt Can, by Sons of the Nile” – Egyptian Ministry of Water Resources and Irrigation.
- 2018: **Member** in the “Committee for Following-up the Environmental Situation of the Companies that Discharge in the Gulf of Suez”.
- 2018: **The focal point** for coordination between the “Egyptian Ministry of Environment” and the “Egyptian Ministry of Water Resources and Irrigation” on the elimination of lake pollution (sanitary / agricultural / industrial ...) and implementation of the required projects in this regard.
- 2018: **The representative** of the “Egyptian Ministry of Environment” as a technical member of the “Committee Discussing the Issuance of the Law of Protection of Lakes and Criminalization of Infringement on Them”, under the chairmanship of the “Egyptian Minister of Legal and Parliamentary Affairs”.
- 2015-2016: **Member** in the committee for “Establishment of Rules and Regulations for the Trading of Biofuel (Import, Export and Local Sale) at the “Egyptian General Petroleum Corporation” (EGPC).

Patents:

- 2015: Apply for Egyptian Patent (Application No.: 2015020193, under review)
 “The production of Fluorapatite Catalyst from Waste Animal Bones and its Use as a Photo-catalyst for Degradation of Chloro-phenols in Polluted Water”

Book Chapters:

- 2018: **Nour Sh. El-Gendy & Basma A. Omran**
 “Green synthesized nanoparticles as promising candidates for biomedical applications” in “Micro- and Nanotechnologies in Biomedical Engineering (multi volume SET 1-14)” – Elsevier (**Accepted in Press**).
- 2018: **Nour Sh. El-Gendy & James G. Speight**
 “Biotechnology in The Refinery” in “Hydrocarbon Biotechnology”, Apple Academic Press AAP Inc. (**Accepted in Press**).

- 2018:** Nour Sh. El-Gendy & Basma A. Omran
 “Green Synthesis of Nanoparticles for Water Treatment” in “Nano and Bio-Based Technologies for Wastewater Treatment: Prediction and Control Tools for the Dispersion of Pollutants in the Environment” The publisher; Scrivener Publishing LLC, Beverly, MA, USA (**Accepted in Press**).
- 2018:** Nour Sh. El-Gendy & Samiha F. Deriase
 “Application of Statistical Approaches to Optimize the Productivity of Biodiesel and Investigate the Physicochemical Properties of the Bio/Petro-Diesel Blends”, “High-Performance Materials and Engineered Chemistry” (2018) Eds. Torrens, F., Balköse, D. & Thomas, S., “Innovations in Physical Chemistry: Monograph Series” Eds. Haghi, A.K., Pogliani, L. & Ribeiro, A.C.F., Apple Academic Press AAP Inc., NJ, USA. Chapter 7, Part II, Pp. 161-239.
- 2015:** Nour Sh. El-Gendy
 “Biodesulfurization of Petroleum and Its Fractions” in "Advances in Petroleum Engineering" in "Chemical Technology Series", Vol. 4 Advances in Petroleum Engineering II: *Petrochemical* (2015) Eds. K.K. Pant, Shishir Sinha, S. Bajpai & J.N. Govil, Studium Press LLC, Houston, USA. Chapter 24, Pp. 655-680.

Books:

- 2021:** Nour Shafik El-Gendy, Said Salah Eldin Elnashaie & Hussein Nabil Nassar
 “Sustainable Environmental Biotechnology” The publisher; CRC Press, Taylor and Francis Group, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742, USA (**in preparation**). As long as the manuscript is submitted on time, 2021 will be the year of publication.
- 2021:** Nour Shafik El-Gendy, Hussein Nabil Nassar & James G. Speight
 “Valorization of Agroindustrial Wastes: Reducing Risk of Climate Change - Volume 2: Agroindustrial Wastes: Advanced Practical Applications” John Wiley & Sons Publisher (**in preparation**). As long as the manuscript is submitted on time, 2021 will be the year of publication.
- 2020:** Nour Shafik El-Gendy, Hussein Nabil Nassar & James G. Speight
 “Valorization of Agroindustrial Wastes: Reducing Risk of Climate Change – Volume 1: Bioenergy and Biofeedstocks from Agroindustrial Wastes” John Wiley & Sons Publisher (**in preparation**). As long as the manuscript is submitted on time, 2021 will be the year of publication.
- 2019:** Nour Shafik El-Gendy, James G. Speight & Hussein Nabil Nassar
 “Nano-Biotechnology in Petroleum Industry” The publisher; Apple Academic Press, Inc., 3333 Mistwell Crescent, Oakville, ON L6L 0A2, Canada (**in preparation**). As long as the manuscript is submitted on time, 2019 will be the year of publication.
- 2018:** Nour Sh. El-Gendy & Hussein Nabil Nassar
 “Biodesulfurization in Petroleum Refining” The publisher; John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, USA and Scrivener Publishing LLC, 100 Cummings Center, Suite 541J, Beverly, MA 01915, USA .
- 2017:** James G. Speight & Nour Shafik El-Gendy
 “Introduction to Petroleum Biotechnology” The publisher; Gulf Professional Publishing is an imprint of Elsevier, Cambridge, MA, USA.
- 2016:** Nour Shafik El-Gendy & James G. Speight
 “Handbook of Refinery Desulfurization” The publisher; CRC Press, Taylor and Francis Group, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742, USA.
- 2013:** Nour El-Gendy & Hekmat Madian
 "Ligno-Cellulosic Biomass for Production of Bio-Energy in Egypt" LAP LAMBERT Academic Publishing, Deutschland, Germany.

Manuscripts:

- 2019:** B.A. Omran, H.N. Nassar, N.A. Fatthalah, A. Hamdy, E.H. El-Shatoury & N.Sh. El-Gendy
 “Physicochemical properties of *Trichoderma longibrachiatum* DSMZ 16517-synthesized silver nanoparticles for the mitigation of halotolerant sulphate-reducing bacteria” *Journal of Applied Microbiology*. **126(1)**, 138-154.
- 2018:** A.R. Ismail, S.B. El-Henawy, S.A. Younis, M.A. Betiha, N.Sh. El-Gendy, M.S. Azab & N.M. Sedky
 “Statistical Enhancement of Lipase Extracellular Production by *Bacillus stratosphericus* PSP8 in A Batch Submerged Fermentation Process” *Journal of Applied Microbiology* **125(4)**, 1076-1093.
- 2018:** Zeinab H. Kheiralla, Nour Sh. El-Gendy, Hala A. Ahmed, Thanaa H. Shaltout & Mohamed M. D. Hussein

- “One-factor-at-a-time (OFAT) optimization of hemicellulases production from *Fusarium moniliforme* in submerged fermentation” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **40(15)**, 1877-1885.
- 2018:** Omar Aboelazayem, Nour Sh. El-Gendy, Ahmed A. Abdel-Rehim, Fatma H. Ashour & Mohamed A. Sadek “Biodiesel production from castor oil in Egypt: process optimisation, kinetic study, diesel engine performance and exhaust emissions analysis” *Energy* **157**, 843-852.
- 2018:** Kheiralla ZH, El-Gendy NSh, Ahmed HA, Shaltout ThH, Hussein MMD “Upgrading of Tomato (*Solanum lycopersicum*) Agroindustrial Wastes” *Journal of Microbial & Biochemical Technology* **10**, 46-48. doi: [10.4172/1948-5948.1000394](https://doi.org/10.4172/1948-5948.1000394)
- 2018:** R.M. Soliman, S.A. Younis, N.Sh. El-Gendy, S.S.M. Mostafa, S.A. El-Temtamy & A.I. Hashim “Batch bioethanol production via the biological and chemical saccharification of some Egyptian marine macroalgae” *Journal of Applied Microbiology* **125(2)**, 422-440.
- 2018:** B.A. Omran, H.N. Nassar, N.A. Fatthalah, A. Hamdy, E.H. El-Shatoury & N.Sh. El-Gendy “Characterization and antimicrobial activity of silver nanoparticles mycosynthesized by *Aspergillus brasiliensis*” *Journal of Applied Microbiology* **125(2)**, 370—382.
- 2018:** Nour Sh. El-Gendy, A. Hamdy & Basma A. Omran “Thermal and Surface Studies on the Corrosion Inhibition of Petroleum Pipeline by Aqueous Extract of *Allium cepa* Skin under Acidic Condition” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **40(8)**, 905-915.
- 2018:** Basma A. Omran, Hussein N. Nassar, Nesreen A. Fatthalah, A. Hamdy, Einas H. El-Shatoury & Nour Sh. El-Gendy “Waste Upcycling of *Citrus Sinensis* Peels as A Green Route for Synthesis of Silver Nanoparticles” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **40(2)**, 227-236.
- 2017:** Hussein N. Nassar, Samiha F. Deriase & Nour Sh. El-Gendy “Kinetic Modeling and Simulation of a Batch Biodesulfurization Process by *Rhodococcus erythropolis* HN2” *Petroleum Science & Technology* **35(20)**, 1995-2002.
- 2017:** Hussein N. Nassar, Samiha F. Deriase & Nour Sh. El-Gendy “Statistical Optimization of Biomass Production and Biodesulfurization activity of *Rhodococcus erythropolis* HN2” *Petroleum Science & Technology* **35(20)**, 1951-1959.
- 2017:** Abdullah M El Mahdi, Hamidi Abdul Aziz & Nour Sh. El-Gendy “Emulsifiers Produced by Locally Microbes Using Local Agro-Industrial Wastes” *Recent Advances in Petrochemical Sciences* **2(2)**, 555583. DOI:[10.19080/RAPSCI.2017.02.555583](https://doi.org/10.19080/RAPSCI.2017.02.555583)
- 2017:** Hager R. Ali, Hussein N. Nassar & Nour Sh. El-Gendy “Green Synthesis of $\alpha\text{-Fe}_2\text{O}_3$ Using *Citrus reticulatum* Peels Extract and Water Decontamination from Different Organic Pollutants” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **39(13)**, 1425–1414.
- 2017:** Omar Aboelazayem, Nour Sh. El-Gendy, Fatma H. Ashour & Mohamed A. Sadek “Complete Analysis of Castor Oil Methanolysis for Biodiesel Production” Conference proceedings, “10th International Conference on Sustainable Energy and Environmental Protection: Bioenergy and Biofuels” Kropce, J., Ghani Olabi, A., Goričanec, D., and Božičnik, S. (Ed.) June 27th – 30th, 2017, Bled, Slovenia. Pp. 45- 55. <https://doi.org/10.18690/978-961-286-048-6.5>
- 2017:** K. Mchiouer, S. Bennani, N. Sh. El-Gendy & M. Meziane “Evaluation of the Hygienic Quality of Raw Cow’s Milk in Oujda City Morocco” *Biosciences Biotechnology Research Asia* **14(2)**, 587-591.
- 2017:** Soha S. M. Mostafa & Nour Sh. El-Gendy “Evaluation of Fuel Properties for Microalgae *Spirulina Platensis* Bio-diesel and Its Blends with Egyptian Petro-diesel” *Arabian J. of Chemistry* **10**, S2040–S2050.
- 2017:** Abdallah R. Ismail, Samy B. El-Henawy, Mohamed A. Betiha, Salem S. Abu Amr, Nour Sh. El-Gendy, Mohamed S. Azab & Nagwa M. Sedky “Optimization of a Batch Cao-Catalyzed Transesterification of Used Domestic Waste Oil with Methanol and Elucidation of a Mathematical Correlation between Biodiesel Yield and Percent Conversion” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **39(10)**, 1013–1028.
- 2017:** Abdallah R. Ismail, Samy B. El-Henawy, Sherif A. Younis, Mohamed A. Betiha, Salem S. Abu Amr, Nour Sh. El-Gendy, Mohamed S. Azab & Nagwa M. Sedky “Optimization of Batch Novozym435-Catalyzed Transesterification of Waste Cooking Oil with Methanol for Biodiesel Production in a Solvent-Free Medium” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **39(9)**, 911–925.
- 2016:** Christen Tharwat, E. Girgis, Y.A. Badr, Kh. M. Ibrahim, Shireen K. Assem & Nour Sh. El-Gendy “Laser Treatment of Cp-Ti & Ti-Ni Alloy Coated with Hydroxyapatite/Silver Nanoparticles for Biomedical Applications” *International Journal of Optics and Photonic Engineering* **1:003**.

<http://vibgyorpublishers.org/content/international-journal-of-optics-and-photonic-engineering/ijope-1-003.php>

- 2016:** Sahar M. Ahmed, Fawzia I. El-Dib, Nour Sh. El-Gendy, Wafaa M. Sayed & Mohamed El-Khodary
“A Kinetic Study for the Removal of Anionic Sulphonated Dye from Aqueous Solution Using Nanopolyaniline and Baker's Yeast” *Arabian J. of Chemistry* **9(2)**, S1721–S1728.
- 2016:** Nour Sh. El-Gendy, A. Hamdy, Nesreen A. Fatthallah & Basma A. Omran
“Recycling of Some Domestic Wastes to Produce Green Corrosion Inhibitors and Biocides for Sulfate Reducing Bacteria” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **38(24)**, 3722-3732.
- 2016:** K. Mchiouer, S. Bennani, N. Sh. El-Gendy & M. Meziane
“Identification and Antibiotic Resistance of *Lactobacilli* Isolated from Raw Cow's Milk of Oujda City (Morocco)” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **38(24)**, 3572-3577.
- 2016:** H.I. Hamouda, H.N. Nassar, H.R. Madian, Mohamed Helal El-Sayed, A.A. El-Ghamry & N.Sh. El-Gendy
“Isolation of Fermentative Microbial Isolates from Sugar Cane and Beet Molasses and Evaluation for Enhanced Production of Bioethanol” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **38(15)**, 2170–2180.
- 2016:** Hussein N. Nassar, Samiha F. Deriase & Nour Sh. El-Gendy
“Modeling the Relationship between Microbial Biomass and Total Viable Count for a New Bacterial Isolate Used in Biodesulfurization of Petroleum and Its Fractions” *Petroleum Science & Technology* **34(11-12)**, 980-985.
- 2016:** Bassem S. Zakaria, Hussein N. Nassar, Nour Sh. EL-Gendy, Seham A. El-Temtamy & S. M. Sherif
“Denitrogenation of Carbazole by a Novel Strain *Bacillus Clausii* BS1 Isolated from Egyptian Coke” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **38(13)**, 1840–1851.
- 2016:** Nour Sh. El-Gendy, Basma Ahmed Ali, Salem S. Abu Amr, Hamidi Abdul Aziz & Amr S. Mohamed
“Application of D-optimal Design and RSM to Optimize the Transesterification of Waste Cooking Oil Using Natural and Chemical Heterogeneous Catalyst” *Energy Sources, Part A: Recovery Utilization & Environmental Effects* **38(13)**, 1852–1866.
- 2016:** Nour Sh. El-Gendy, Radwa A. El-Salamony & Sherif A. Younis
“Green Synthesis of Fluorapatite from Waste Animal Bones and The Photo-Catalytic Degradation Activity of a New ZnO/Green Biocatalyst Nano-Composite for Removal of Chlorophenols” *J. of Water Process Engineering* **12**, 8-19.
- 2016:** Abdullah M. El Mahdi, Hamidi Abdul Aziz, Salem S. Abu Amr, Nour Sh. El-Gendy & Hussein N. Nassar
“Isolation and Characterization of *Pseudomonas* sp. NAF1 and Its Application in Biodegradation of Crude Oil” *Environmental Earth Sciences* **75(5)**: 380 ([DOI 10.1007/s12665-016-5296-z](https://doi.org/10.1007/s12665-016-5296-z))
- 2016:** Nour Sh. El-Gendy & Hussein N. Nassar
“Study on the Effectiveness of Spent Waste Sugarcane Bagasse for Adsorption of Different Petroleum Hydrocarbons Water Pollutants: Kinetic and Equilibrium Isotherm” *Desalination & Water Treatment* **57(12)**, 5514-5528.
- 2015:** Hamed I. Hamouda, Hussein N. Nassar, Hekmat R. Madian, Salem S. Abu Amr & Nour Sh. El-Gendy
“Response Surface Optimization of Bioethanol Production from Sugarcane Molasses by *Pichia veronae* Strain HSC-22” *Biotechnology Research International* **Volume 2015**, Article ID 905792, 10 pages.
([doi: 10.1155/2015/905792](https://doi.org/10.1155/2015/905792))
- 2015:** Nour Sh. El-Gendy, Salem S. Abu Amr, Radwa A. El-Salamony & Hussein N. Nassar
“Factorial Design Analysis for Biosorption of Reactive Red-84 Dye Using Fermentation Spent Waste Biomass, Biosorbent Regeneration and Desorbed Dye Photo-Degradation Using TiO₂ Nanoparticles” *Desalination & Water Treatment* **56(12)**, 3403-3413.
- 2015:** Sherif A. Younis, Nour Sh. El-Gendy, Waleed I. El-Azab & Yasser M. Moustafa
“Kinetic, Isotherm, and Thermodynamic Studies of Polycyclic Aromatic Hydrocarbons Biosorption from Petroleum Refinery Wastewater Using Spent Waste Biomass” *Desalination & Water Treatment* **56(11)**, 3013-3023.
- 2015:** Nour Sh. El-Gendy, Abd Allah S.A. El-Gharabawy, Salem S. Abu Amr & Fatma H. Ashour
“Response Surface Optimization of an Alkaline Transesterification of Waste Cooking Oil” *International Journal of ChemTech Research* **8(8)**, 385-398.
- 2015:** Nour Sh. El-Gendy, Hekmat R. Madian, Hussein N. Nassar & Salem S. Abu Amr
“Response Surface Optimization of the Thermal Acid Pretreatment of Sugar Beet Pulp for Bioethanol Production Using *Trichoderma viride* and *Saccharomyces cerevisiae*” *Recent Patents on Biotechnology* **9(1)**, 50-62.
- 2015:** Abdullah M. El Mahdi, Hamidi Abdul Aziz, Salem S. Abu Amr, Nour Sh. El-Gendy & Hussein Nassar
“Performance of Some New Bacterial Isolates on Biodegradation of Libyan Light Crude Oil Using Agro-Industrial Wastes as Co-Substrates” *Applied Mechanics and Materials* **802**, 496-500.

- 2015: Hamed I. Hamouda, Hussein N. Nassar, Hekmat R. Madian, Salem S. Abu Amr & Nour Sh. El-Gendy
 “Statistical Optimization of Batch Ethanol Fermentation of Sugarcane Molasses by *Candida tropicalis* Strain HSC-24” *International Journal of ChemTech Research* **8(6)**, 878-889.
- 2015: N. Sh. EL-Gendy, H. N. Nassar & S. A. Younis
 “Main and Interactive Effects of Polyaromatic Sulfur Heterocyclic Compounds on Growth and Biodegradation Efficiencies of *Bacillus sphaericus* HN1: Modeling and Statistical Analysis” *Petroleum Science & Technology* **33(11)**, 1167-1181.
- 2015: Abdullah M. El Mahdi, Hamidi Abdul Aziz, Salem S. Abu Amr, Nour Sh. El-Gendy & Hussein Nassar
 “Performance of Isolated *Kocuria* sp. SAR1 in Light Crude Oil Biodegradation” *Journal of Bioremediation & Biodegradation* **6(4)**, 303. ([doi:10.4172/2155-6199.1000303](https://doi.org/10.4172/2155-6199.1000303))
- 2015: S. F. Deriase, H. N. Nassar & N. Sh. EL-Gendy
 “Modeling and Simulation for Biodegradation of Mono-, Binary – and Tertiary- Substrate Batch Systems of Different Polyaromatic Sulfur Heterocyclic Compounds” *Petroleum Science & Technology* **33(10)**, 1063-1076.
- 2015: Abdullah M Elmahdi, Hamidi Abdul Aziz, Nour Sh El-Gendy, Salem S Abu Amr & Hussein N Nassar
 “Effectiveness of Corn Steep Liquor as a Natural Low-Cost Material for the Biodegradation of Two Types Of Libyan Crude Oil” *Australian J. of Basic & Applied Sciences* **9(11)**, 494-505.
- 2015: Nour Sh. El-Gendy, Samiha F. Deriase, A. Hamdy & Renee I. Abdallah
 “Statistical Optimization of Biodiesel Production from Sunflower Waste Cooking Oil Using Basic Heterogeneous Biocatalyst Prepared from Eggshells” *Egyptian J. of Petroleum* **24**, 37-48.
- 2015: B. S. Zakaria, H. N. Nassar, S. S. Abu Amr & N. Sh. EL-Gendy
 “Applying Factorial Design and Response Surface Methodology to Enhance Microbial Denitrogenation by Tween 80 and Yeast Extract” *Petroleum Science & Technology* **33(8)**, 880-892.
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- Petroleum Science and Technology
- Polycyclic Aromatic Compounds

Reviewer for Some of Springer Journals;

- 3 Biotech
- Clean Technologies and Environmental Policy
- Environmental Processes
- Fibers and Polymers
- Folia Microbiologica
- International Journal of Energy and Water Resources
- International Journal of Environmental Science and Technology
- International Journal of Industrial Chemistry
- Journal of Central South University
- Nano-Micro Letters
- Waste and Biomass Valorization
- Water Conservation Science and Engineering

Reviewer for Some of ACS Journals;

- Energy & Fuels
- Environmental Science & Technology

Reviewer for Some of RSC Journals;

- RSC Advances

Reviewer for Some of John Wiley and Sons, Inc. publications;

- Canadian Journal of Chemical Engineering
- ChemBioEng Reviews
- Environmental Progress & Sustainable Energy
- Kirk-Othmer Encyclopedia of Chemical Technology
- Water and Environment Journal

Reviewer for Some of Bentham Science Publishers

- Recent Patents on Biotechnology
- Recent Patents on Nanotechnology

Reviewer for Some of Hindawi Publishing Corporation

- International Journal of Microbiology

Reviewer for Some of American Society of Mechanical Engineers Journals

- Energy Resources Technology

Reviewer for African Journal of Pure and Applied Chemistry

Reviewer for British Microbiology Research Journal

Reviewer for BAOJ Chemistry

Reviewer for Caspian Journal of Applied Sciences Research

Reviewer for Chemical Engineering and Process Techniques

Reviewer for Environmental Engineering Science Journal

Reviewer for Global Journal of Environmental Science and Management

Reviewer for International Journal of Applied Microbiology and Biotechnology Research

Reviewer for International Journal of Automotive and Mechanical Engineering

Reviewer for International Journal of Energy and Water Resources

Reviewer for International Research Journal of Public and Environmental Health

Reviewer for Jordan Journal of Biological Sciences

Reviewer for Journal of Applied Biology and Biotechnology

Reviewer for Journal of Applied Pharmaceutical Science

Reviewer for Journal of Chemical Engineering and Materials Sciences

Reviewer for Journal of Mechanical Engineering and Sciences

Reviewer for Journal of Microbiology, Biotechnology and Food Sciences

Reviewer for Royal Society Open Science

International Workshops & Training Courses:

- 2018:** **Attended** the Science Communication Training “How to Integrate ‘Storytelling’ into your Communication Style” of the Arab-German Young Academy of Sciences and Humanities and the Academy of Scientific Research and Technology, 24 October 2018, Cairo, Egypt.
- 2018:** **Attended** Nature Masterclass in Scientific Writing and Publishing, 2-3 October, 2018.
- 2018:** **Representing Egypt by presenting a lecture** entitled “Valorization of Different Agro-Industrial Wastes towards Better Environment” **as one of the Egyptian Official Delegation**, in the India – Egypt Joint workshop on "Agriculture Biotechnology" North Eastern Hill University (NEHU), Shillong, India, 10-12 September 2018.
- 2016:** **Conducted a workshop on** “Applications of Different Agro-industrial Wastes in Petroleum Biotechnology” at the “3rd World Congress and Expo on Applied Microbiology” in Dubai, UAE, 7th of November, 2016.
- 2015:** **Attended** workshop “Natural Resource Damage Assessment: Measuring Injury to Natural Resources for NRDA” organized by AEHS Foundation, and held in Mission Valley Marriott, San Diego, California, USA, 24th March, 2015.
- 2014:** **Attended** workshop “Hazardous Materials Management CHMM/CHMP/HMMT” organized by AEHS Foundation and held in Mission Valley Marriott, San Diego, California, USA, 17th March, 2014.
- 2009:** **Presented a lecture** entitled “Magnetized Nano-biocatalyst as a New Innovative Approach for Treatment of Water Oil Pollution” in the workshop of "Designing a CIESM Program on Mediterranean Marine Biotechnologies" organized by Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée (CIESM) & held in Mediterranean Institute for Life Science in Split, Croatia 17-19 September 2009.
- 2002:** **Attended and Presented a lecture** in the International training workshop of; “Biomass Gasification Principles and Applications” 4-18 November 2002, Yingkou at the Liaoning Institute of Energy Resources, Sponsored by Ministry of Science and Technology, People’s Republic of China.

National & International Workshops & Training Courses Which Were Held in Egypt:

- 2017:** **Attended** “The 6th Ain Shams University Workshop on Oilfield Chemistry”, held in Faculty of Engineering, Ain Shams University, Cairo, Egypt, 22nd of October 2017.
- 2017:** **Attended** workshop “Hopes and Challenges in Agricultural Biotechnology”, held in Agricultural Genetic Engineering Research Institute (AGERI), Giza, Egypt 28th of February 2017.
- 2017:** **Attended** “Workshop about Green Fuels” organized by Egyptian Petroleum Research Institute EPRI, Cairo, Egypt, 22nd of February, 2017.
- 2017:** **Attended** Egypt-Japan Multidisciplinary Science Forum “Beyond the Border”, held at the National Research Institute of Astronomy and Geophysics, Helwan, Egypt, 11th of February, 2017.
- 2017:** **Training course** on “Principles of Bioinformatics and Biological Data Analysis” held at Agricultural Genetic Engineering Research Institute (AGERI), Giza, Egypt, 5th-6th of February, 2017.
- 2017:** **Attended and participated in organizing** a training workshop “From Innovation to Commercialization”, held at British University in Egypt (BUE), 1st & 2nd of February, 2017.
- 2016:** **Attended** workshop “Future Prospects of the Utilization of Oil Crops” organized by Fats and Oils Department, National Research Center in collaboration with Malaysian Palm Oil Council, held in National Research Center (NRC), Cairo, Egypt, 21st of December, 2016.
- 2016:** **Participated** in the round table discussion plenary session of the workshop “From the Applied Scientific Research to the Entrepreneurship”, organized by the Scientific Research Committee of the National Council for Women of Egypt, and was held in the conference hall of Faculty of Agriculture, Cairo University, 25th – 26th of May, 2016.
- 2016:** **Attended** workshop “Solar Energy Materials and Applications” within the framework of Egypt/South Africa project “Development of High Temperature Solar Absorber” Cairo, Egypt, 7th of May, 2016.
- 2016:** **Attended** workshop “Tribology” organized by Egyptian Petroleum Research Institute EPRI, Cairo, Egypt, 23rd of February, 2016.
- 2015:** **Presented a lecture** entitled “Bioethanol Production from Agro-industrial Wastes – Catch the Wave of Bio-fuels as Alternative/Complementary for Petro-fuels” in “The 4th Ain Shams University Workshop on Oilfield Chemistry”, held in Faculty of Engineering, Ain Shams University, Cairo, Egypt, 2nd of December 2015.
- 2015:** **Attended** “6th Annual International Arab Workshop on Biotechnology: Plant Genetic Resources; Conservation, Documentation and Better Utilization” held in National Research Center (NRC), Cairo, Egypt, 24th – 25th of August, 2015.

- 2015:** **Attended** workshop “Oleochemicals and Sustainable Development of Palm Oil” organized by Fats and Oils Department, National Research Center in collaboration with Malaysian Palm Oil Council, held in Semiramis InterContinental Hotel, Cairo, Egypt, 11th of May, 2015.
- 2015:** **Attended** workshop “Nanotechnology Tools for Scientists and Engineers” organized by Naqaa Foundation for Scientific Research, Technology and Development, Egypt, 2nd of May, 2015.
- 2014:** **Attended** workshop “The Role of Biotechnology to Economic Development in Egypt” held in National Research Center (NRC) Cairo, Egypt, 16th of June, 2014.
- 2014:** **Presented a lecture** entitled “Agro-Industrial Wastes and Bioethanol” in the workshop “Renewable Energy Challenges and Opportunities in Egypt (RECO)” held in the Egyptian Academy of Scientific Research and Technology, Cairo, Egypt, 10th of May, 2014.
- 2014:** **Organized workshop** about “EPRI Approaches for Alternative/Complementary Fuels (Positive Impact on Economy, Environment and Energy)”, held in Egyptian Petroleum Research Institute EPRI, Cairo, Egypt, 28th of April, 2014, and **presented a lecture** entitled “Agro-Industrial Wastes and Bioethanol”
- 2014:** **Attended** workshop “Materials Science and Engineering” organized in cooperation between Inorganic Chemical Industries and Mineral Resources Division, National Research Center (NRC) and Materials Science and Engineering Department, Egypt-Japan University of Science and Technology (E-JUST), 5th of March, 2014.
- 2014:** **Training course** on “Hazards of H₂S and Protection Methods” held in National Research Center, Cairo, Egypt, 9-20 February 2014.
- 2013:** **Attended** workshop “Corrosion Mitigation in Oil and Gas Production” organized by Egyptian Corrosion Society and held in Hurghada, Egypt 23rd to 26th December 2013.
- 2013:** **Attended** workshop “Applications of Stable and Radioactive Isotopes in the Petroleum Field” organized by Middle Eastern Regional Radioisotope Center for the Arab Countries, Cairo Egypt, 29th of September to 3rd of October 2013.
- 2013:** **Presented a lecture** entitled “Bioremediation from Lab to the Field” in “The 2nd Ain Shams University Workshop on Oilfield Chemistry”, held in Faculty of Engineering, Ain Shams University, Cairo, Egypt, 18th of September 2013.
- 2009:** **Attended** workshop of "Combating the Metal Microbial Induced Corrosion and Its Importance In The Petroleum and Industrial Sectors" 13 April 2009, National Research Center, Giza, Egypt.
- 2008:** **Training course** on "Mass Spectrometry" 26-28 November 2008, Ramses Hilton Hotel, Cairo, Egypt.
- 2008:** **Attended** workshop on Development of Forage for Animal Feed and Biofuel Production Egypt-Japan year for science and technology, held in Cairo, Egypt, 16th November, 2008.
- 2008:** **Training course** on "Designing, Running and Writing Scientific Research in Aquaculture, Fisheries and Oceanography for International Publishing" 12-14 August 2008, Faculty of Science-Oceanography Department, Alexandria University, Alexandria, Egypt.
- 2008:** **Training course** on "Gas Chromatograph & Data Acquisition" 25-27 July 2008, Cairo Sheraton Hotel, Egypt.
- 2008:** **Attended** workshop on New and Renewable Energy for Industrial Development Egypt-Japan year for science and technology, held in Cairo, Egypt, 7th July, 2008.
- 2008:** **Intensive course** on "Corrosion in Petroleum Industries" 3-6 March 2008, at Institute of Graduate Studies & Research (IGSR), University of Alexandria Research Center (UNARC), Alexandria, Egypt.
- 2007:** **Attended** workshop of "Design Chemical Reactors and Bioreactors" 24-28 November 2007, at Association of Chemical Engineers, Cairo, Egypt.
- 2005:** **Attended** workshop of “From Gene to Proteins” 16-20 July 2005, at Mubarak City for Scientific Research and Technology Applications, Alexandria, Egypt.
- 2004:** **Attended** workshop of "Polymerase Chain Reaction (PCR) Applications & Gene Sequencing" 7-11 August 2004, at Mubarak City for Scientific Research and Technology Applications, Alexandria, Egypt.

International Conferences & Symposiums:

- 2018:** International Summit on Microbiology and Parasitology. October 25-26, 2018, Prague, Czech Republic (**Organizing Committee**).
<http://scientificfederation.com/microbiology-parasitology-2018/organizing-committee.php>
- 2018:** 12th Annual Meet on Bacteriology & Applied Microbiology, Theme: Innovative Research in Bacteriology and Applied Microbiology. August 20-21, 2018, Singapore.
OCM for Bacteriology Asia Pacific Series Conferences (**Organizing Committee**).
<https://bacteriology.conferenceseries.com/asiapacific/organizing-committee.php>

- 2018:** The 2nd International Conference on Materials & Environmental Science. New Materials for Sustainable Energy Development. ICMES2018. 26-28 April, 2018, Saidia, Morocco (**International Scientific Committee**).
www.mocedes.org/icmes2018/
- 2018:** The 2nd International Conference on Artificial Intelligence: Techniques and Applications (ICAITA2018). March 25-26, 2018, Chengdu, China (**Scientific Committee**).
<http://www.icaita2018.org/com.html>
- 2016:** The 3rd World Congress and Expo on Applied Microbiology. JW Marriott, Dubai, UAE, 7-9 November, 2016, that organized by Conference Series LLC (**Speaker**).
- 2016:** **Invited Seminar Speaker** “Applications of Different Agro-industrial Wastes in Petroleum Biotechnology” at Department of Biology, College of Science, UAE University, 8th of November, 2016.
- 2016:** OCM for Petroleum Engineering Series Conferences (**Organizing Committee**).
<http://petroleumengineering.conferenceseries.com/organizing-committee.php>
- 2016:** The 41st CIESM Congress. 11th of September – 21st of September, 2016, Kiel, Germany (**Speaker and Poster**).
- 2015:** International Conference on Environmental Engineering and Pollution Technology (ICEEPT2015). 1-3 October 2015, Phuket Island, Thailand (**Organizing Committee**).
<http://www.iceept.org/OrganizingCommittee.aspx>
- 2015:** The 2015 International Conference on Sustainable Energy and Environmental Engineering (SEEE2015). October 25-26, 2015, Bangkok, Thailand (**International scientific committee**).
<http://www.seee2015.org/com.htm>
- 2015:** The 25th Annual International Conference on Soil, Water, Energy and Air. 23-26 March, 2015, Mission Valley Marriott, San Diego, California, USA (**Speaker**).
- 2014:** The 24th Annual International Conference on Soil, Water, Energy and Air. 17-20 March, 2014, Mission Valley Marriott, San Diego, California, USA (**Speaker**).
- 2013:** The 40th CIESM Congress. 28th of October – 1st of November, 2013 Marseille, France (**Speaker and Poster**).
- 2013:** The 23rd Annual International Conference on Soil, Water, Energy and Air. 18-21 March, 2013, Mission Valley Marriott, San Diego, California, USA, (**Poster**).
- 2011:** Symposium on Bacterial Genetics and Ecology BAGECO11. 29th of May – 2nd of June, 2011, Corfu island, Greece (**Poster**).
- 2010:** The 4th Saudi Scientific Conference. 21-24 March, 2010, Al-Madinah Al-Munawwarah, KSA (**Poster**).
- 2009:** Congrès International MICROBIOD-2009. 2-5 November 2009, Marrakech-Morocco (**Speaker**).
- 2008:** International Symposium on Biotechnology. 4-8 May, 2008, Safax, Tunisia (**Speaker**).

International Conferences & Seminars Which Were Held in Egypt:

- 2017:** 6th International Conference on Corrosion Mitigation and Surface Protection Technologies. 11-14 December, 2017, Sonesta Hotel, Sharm El-Sheikh, Egypt (**Chairperson**).
- 2017:** The 8th International Conference of Arab Biotechnology Association: Biodiversity, Biosafety & Bioindustry. 1-2 November, 2017, Sharm El-Sheikh, Egypt (**Attendance**).
- 2017:** International Conference “Science and Science Management for Sustainable Development” Humboldt Kolleg JSPS-AvH Alumni Joint Conference. 24-26 October, 2017, National Research Center (NRC), Dokki, Cairo, Egypt (**Attendance**).
- 2017:** International Egyptian Czech Conference on Nanotechnology Applications (IECCNA2017). 10-11 October 2017, Faculty of Agricultural, Cairo University, Giza, Egypt, (**Co-author**).
- 2017:** Seminar on “The Utilization of Vegetable Oils in Dairy Products”. Organized by Malaysian Palm Oil Council-Cairo. 25 July 2017, InterContinental Hotel Citystars, Cairo, Egypt (**Attendance**).
- 2017:** The 1st Arab Forum Integration Systems for Creativity and Innovation Management and its Impact on Economic Development (Agricultural Sector and Food Industries). Organized by The Arab Administrative Development Organization (ARADO)- League of Arab States in collaboration with the British University in Egypt (BUE) and the National Council for Women of Egypt (Scientific Research Committee), which was held in BUE, El Sherouk, Cairo, Egypt, 3-5 April, 2017 (**Organizing and Scientific Committee, Chairperson and Plenary Speaker**).
- 2017:** International Conference “Women in Science without Borders – WISWB – Bridging, Networking and Sustainable Development” 21-23 March, 2017, Hilton Ramses Hotel, Cairo, Egypt, (**Organizing and Scientific Committees and Speaker**).
- 2017:** The 3rd International Conference on “Biotechnology and Environmental Safety” 14-16 March, 2017, National Research Center (NRC), Dokki, Cairo, Egypt (**Attendance**).

- 2017:** The 20th International Conference in Petroleum, Mineral Resources and Development. 20-22 February, 2017, Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Organizing Committee and Co-author**).
- 2016:** 5th International Conference on Corrosion Mitigation and Surface Protection Technologies. 12-15 December, 2016, Steigenberger Hotel, Luxor, Egypt (**Speaker**).
- 2016:** **Invited Keynote Speaker** "From Agricultural Wastes and Wastewater Treatment to Biofuels" and "Green Synthesis of Fluorapatite from Waste Animal Bones and Its Applications" **Session Chairperson** "Biomaterials" The 1st International Joint Symposia on "Product Development and Innovation – PDI" and "Industrial Systems and Operations Management – ISOM" 3-5 May, 2016, Ain Shams University, Cairo, Egypt.
- 2016:** **Invited Keynote Speaker** "Bioremediation of Petroleum Hydrocarbons Polluted Sites Some Case Studies" **Session Moderator** "Bioremediation of Environmental Pollution" **Executive Committee** "The 1st International Conference on Applied Microbiology", "Biotechnology and Its Applications in The Field of Sustainable Agricultural Development" 1-3 March, 2016, Agricultural Research Center, Giza, Egypt.
- 2016:** **Presented a lecture** entitled "Introductory Talk about Petroleum and Environmental Biotechnology" in the "Biotechnology" seminar with annual assembly meeting of Japan Society for the Promotion of Science (JSPS) Alumni Association in Egypt, held in Golden Tulip Flamenco Hotel, Cairo, Egypt, 27th of February, 2016.
- 2016:** The 19th International Conference in Petroleum, Mineral Resources and Development. 22-24 February, 2016, Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt, (**Speaker, Poster and Organizing Committee**).
- 2015:** Palm Oil Trade Fair & Seminar (POTS) which was held on 15 December 2015 at Royal Maxim Palace Kempinski Hotel, Cairo, Egypt, that organized by Malaysian Palm Oil Council and Malaysian Palm Oil Board (**Attendance**).
- 2015:** Bruker Seminar "New Innovations in Mass Spectrometry" which was held in Cairo, Egypt on the 22nd of October, 2015 (**Attendance**).
- 2015:** International Conference on Agricultural and Environment for Sustainable Development ICAESD 2015. 25-27 May, 2015, Agricultural and Biological Division, National Research Center, Cairo, Egypt (**Speaker**).
- 2015:** Arab Union for Sustainable Development and Environmental Systems Fifth International Conference, under the title "The Future of Energy, Water and Food System and Climate Change in the Arab Region" 15-16 March, 2015, Conference hall of Cairo University Center (**Attendance**).
- 2015:** The 18th International Conference in Petroleum, Mineral Resources and Development. 8-10 February, 2015 Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker, Poster and Organizing Committee**).
- 2014:** The 1st Conference of Chemistry and Environmental Health organized by Animal Health Research Institute. 13-16 November, 2014, Ain El-Sukhna, Egypt (**Attendance**).
- 2014:** The 4th Regional Conference of the Scientific Research Committee of Faculty of Girls. 2-3 April, 2014, Ain Shams University, Cairo, Egypt (**Attendance**).
- 2014:** The 17th International Conference in Petroleum, Mineral Resources and Development. 9-11 February, 2014 Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker, Poster and Organizing Committee**).
- 2013:** Waste Management and Sustainable Development Conference. 5-6 March, 2013, Cairo University, Giza, Egypt (**Speaker**).
- 2013:** The 16th International Conference in Petroleum, Mineral Resources and Development. 10-12 February, 2013, Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker, Poster and Organizing Committee**).
- 2012:** The 15th International Conference in Petroleum, Mineral Resources and Development. 8-10 April, 2012 Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker, Poster and Organizing Committee**).
- 2011:** Mini symposium "Next Generation Sequencing and Its Applications" organized by Agricultural Genetic Engineering Research Institute (AGERI), Giza, Egypt 31st of October 2011 (**Attendance**).
- 2011:** The 14th International Conference in Petroleum, Mineral Resources and Development. 27-29 March, 2011 Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker, Poster and Organizing Committee**).
- 2010:** The 13th International Conference in Petroleum, Mineral Wealth and Development. 7-9 February, 2010 Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker, Poster and Organizing Committee**).
- 2009:** Rice Straw Seminar "Alternative Concepts and Technologies for Beneficial Utilization of Rice Straw" under the auspical of the Minister of Environment and of Agriculture & Land Reclamation in Egypt, Cairo, Egypt, June 9th, 2009 (**Attendance**).

- 2009:** The 12th International Conference in Petroleum, Mineral Wealth and Development. 7-9 February, 2009 Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker, Poster and Organizing Committee**).
- 2007:** The 2nd Egyptian-French Conference on: Energy and Environment. 25-26 June, 2007, Cairo, Egypt (**Attendance**).
- 2006:** The 3rd International Scientific Conference of the Military Technical College, C.E.E. 2006. 16-18 May, 2006, Cairo, Egypt (**Speaker**).
- 2006:** The 9th International Conference on Petroleum & the Environment. 6-8 February, 2006, Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker, Poster and Organizing Committee**).
- 2005:** Towards a Safe and Clean Environment TSCE'05 Conference, 15-19 April, 2005, El-Menia and Hurghada, Egypt (**Speaker**).
- 2005:** Microbiology Seminar, 3 February 2005, which was held in Cairo, Egypt (**Attendance**).
- 2004:** International Exhibition & Conference for Gas Industry in Middle East & North Africa "Intergas 2004". 23-25 April, 2002, Cairo, Egypt (**Organizing Committee**).
- 2003:** The 4th International Conference & Exhibition for Environmental Technologies Management & Funding "Environment 2003". 30th of September – 2nd of October, 2003, Cairo, Egypt (**Attendance**).
- 2003:** Sigma/Aldrich Analytic Seminar on Chromatography. 10-11 March, 2003, Cairo, Egypt (**Attendance**).
- 2002:** International Exhibition & Conference for Gas Industry in Middle East & North Africa "Intergas 2002". 23-25 April, 2002, Cairo, Egypt (**Organizing Committee**).
- 2001:** The 5th International Conference on Petroleum & the Environment. 25-27 December, 2001, Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker and Organizing Committee**).
- 2001:** The 6th International Conference of Chemical Engineering. 16-19 October, 2001, Cairo, Egypt, (**Speaker and Organizing Committee**).
- 2000:** The 4th International Conference on Petroleum & the Environment. 7-8 November, 2000, Egyptian Petroleum Research Institute, Nasr City, Cairo, Egypt (**Speaker and Organizing Committee**).
- 1998:** The 2nd International Conference on Petroleum & the Environment. 15-17 December, 1998, Egyptian Petroleum Research Institute, Nasr City, Cairo Egypt (**Speaker and Organizing Committee**).

Other Qualifications:

- Languages:** Arabic (mother tongue)
 English (Excellent) TOEFL: 590 IELTS: 7.5
 French (fair)
 German (fair)
- Computer Skills:** ICDL Diploma

Research Projects:

- 2018:** **Principal Investigator** for **United Nations funded project** "Biotransformation of heavy crude oil to overcome the worldwide climate change" with **The University of Lagos – Lagos State, southwestern Nigeria (pre-accepted)**.
- 2011 ~ :** Principal Investigator for **EPRI-Project** "Bio-Ethanol Production from Sugar Cane Bagasse and Rice Straw".
- 2014-2015:** Member in the project of: "Kinetic and Modelling the Production of Bioethanol using Indigenous Microorganism in an Immobilized Fermentor"; **Department of Chemical and Environmental Engineering, Faculty of Engineering, University Putra Malaysia**.
- 2010-2014:** Co-Principal Investigator for **STDF-Project**: "Development of Nano-Particle Biocatalyst Technology for Bidesulfurization of Petroleum Distillates".
- 2011-2014:** Member in **EPRI-Project** of: "Biodiesel Production from Algae".
- 2008:** Real Field Application of Bioremediation Process on Oil Polluted Soil in Sumed Company El-Sukhna Terminal, Suez Egypt.
- 2005-2008:** Member in **ASRT-Project** of: "Bioremediation of Oil Polluted Environments".
- 2006-2007:** Member in **EPRI-Project** of: "TNT Explosives Wastewater Treatment Using Nanotechnology".

Thesis Supervision:

MSc Theses Entitled:

- Microbiological and Physiological Studies on Utilization of Some Local Agro-industrial Wastes.

- Design of an Optimized Process for Biodiesel Production from Castor Oil.
Faculty of Engineering, British University in Egypt (BUE).
- Microbial Studies on Some Microbial Strains Isolated from Molasses for Bioethanol Production.
- Biodegradation of Heterocyclic Nitrogenous Compounds Using Nano-Coated Bacteria and Study the Overexpression of Carbazole Biodegradation Genes.
- Production of Biodiesel from Non-Edible Vegetable Oil.
- Preparation of Magnetic Nano-Particles for the Degradation Polyaromatic Hydrocarbons.
- Study on the Microbial Corrosion of Carbon Steel and Its Inhibition by Some Natural Extracts.
- Genetic Improvement of Desulfurizing Bacteria.
- Using Domestic Wastes as Catalysts for Biodiesel Production through Transesterification of Waste Cooking Oil.
- Evaluation of Petroleum Contamination in Suez Gulf with Special Emphasis on Polyaromatic Hydrocarbons.
- Evaluation of Petroleum Contamination in the Soil and Method of Treatment.
- Biochemical Studies on Pyrene Degradation.
- Biodegradation of Crude Oil Across a Wide Range of Salinities by a Halotolerant Microbial Consortium
- Potentials of Poly Aromatic Sulfur Heterocycles (PASHs) Degrading Microorganisms Isolated from Different Egyptian Hydrocarbon Polluted Sites.
- Studies on Biodiesel Production from Waste Cooking Oil by Immobilized Lipase.
- Microbial Metabolism of Dibenzothiophene and Other Polynuclear Aromatic Hydrocarbons in Oil Polluted Water.
- Using Gamma Irradiation for Enhancing the Production of Ligninolytic Enzyme from Agricultural Waste by White Rot Fungi.

PhD Theses Entitled:

- Production of Biofuels from Lignocellulosic Wastes.
- Biodegradation of Libyan Crude Oils in Marine Environment.
Institute of Postgraduate Studies, University of Sains Malaysia.
- Nano-Immobilized Microbial Catalyst for Biodiesel Production from Waste Cooking Oil.
- Biological and Green Synthesis of Some Nanoparticles Having Biofouling Inhibitory Effect.
- Non-Conventional Technique for Tertiary Treatment of Petroleum Refinery Wastewater.
- Studies on Biosynthesis of Different Fuels from Micro- and Macro-Algal Biomass.
- Development of Biodesulfurization Process for Petroleum Fractions Using Nano-Immobilized Catalyst.
- Microbial Production of Ethanol from Lignocellulosic Wastes.
- Biotreatment and Fingerprinting of Spilled Oils.

Other International Activities:

- Currently:** Scientific Society for African Affair.
- Currently:** Egyptian British Education Association (EBEA).
- Currently:** Full Member of Organization for Women in Science for the Developing World (OWSD).
- Currently:** Member of International Biodeterioration and Biodegradation Society (IBBS).
- Currently:** Member of International Society of Petroleum Engineers (SPE).
- Currently:** Member of Association for Environmental Health and Sciences (AEHS) Foundation.
- Currently:** Member of Royal Society of Chemistry (RSC).
- Currently:** Member of American Association for Science and Technology (AAST).
- Currently:** Involved in the Boarding Biotechnology Regional Team of the Mediterranean Science Commission “Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée” (CIESM).
- Currently:** Member of the International Association of LIONS CLUBS.
- Currently:** Member of Arab Society of Genetic Engineering and Biotechnology.
- Currently:** Member of Association of Biotechnology – Federation of Arab Scientific Research Council.
- Currently:** Affiliated member of Federation of European Microbiological Societies (FEMS).
- Currently:** Member in the Science Advisory Board, an exclusive global network of life science and medical professionals.

Other National Activities:

- Currently:** Member of Egyptian Corrosion Society.

Currently: Member of Egyptian Society of Advanced Materials and Nanotechnology.
Currently: Member of Naqaa Nanotechnology Network (NNN).
Currently: Member of the Egyptian Society for Science and Technology of Biomaterials.
1995: Member of the Chemical Association, Cairo University.

Nominations & Awards:

- An honorable appreciation award for my social activity in The Festival of “Tomorrow for Arab Child”.
- An honorable appreciation award from the British University in Egypt (BUE).
- Nominated for L’Oréal – UNESCO Award for Women in Life Sciences – 2016.
- An honorable acknowledgment certificate from Journal of “Energy Sources Part A: Recovery, Utilization and Environmental Effects” for my outstanding technical contributions as an author and a reviewer.
- An honorable acknowledgment certificate from Journal of “Petroleum Science and Technology” for my outstanding technical contributions as an author and a reviewer.
- A certificate of honor for best oral presentation in The 1st International Conference on Applied Microbiology, “Biotechnology and Its Applications in The Field of Sustainable Agricultural Development”, Agricultural Research Center, Giza, Egypt, 1-3 March, 2016.
- A certificate of honor for best oral presentation in The 15th International Conference on Petroleum Mineral Resources and Development, Egyptian Petroleum Research Institute, Cairo, Egypt, 8–10 April, 2012.
- A certificate of honor for best poster presentation in The 15th International Conference on Petroleum Mineral Resources and Development, Egyptian Petroleum Research Institute, Cairo, Egypt, 8–10 April, 2012.
- An honorable acknowledgment certificate from Egyptian Petroleum Research Institute for my outstanding efforts in The 14th International Conference on Petroleum Mineral Resources and Development, Egyptian Petroleum Research Institute, Cairo, Egypt, 27–29 March, 2011.
- My biography is recorded in Who’s Who in Science and Engineering ninth edition 2006-2007.