

▪ Courses and Teaching interests:

- ▶ Basics of Analytical Chemistry
- ▶ Analytical Chemistry and Membrane Science
- ▶ Environmental Chemistry and Analysis
- ▶ Bio-environmental risk assessment
- ▶ Ecology

▪ Specialization and Research Interests

- Analytical Chemistry
- Bio-analytical Chemistry
- Environmental Analytical Chemistry

◆ Academic Qualifications:

- ◆ Visiting Professor, **Temple University, USA**, (Jan., 2024 to June, 2024).
- ◆ Post-Doctoral Researcher "Fulbright Junior Faculty Development Program, **Texas University, USA**, (July to September, 2017).
- ◆ Post-Doctoral Researcher in Graduate School of Natural Science and Technology, **Kanazawa University, Japan**, (September 2013 to April 2014).
- ◆ PhD in Bio-Environmental Sciences from **Kanazawa University, Japan**, 2012.
- ◆ Preliminary studies for PhD, 2008-2009
- ◆ Master Degree in the Environmental Chemistry, **Cairo Univ. BNS Branch, Faculty of Science, Chemistry Department**, 2007
- ◆ Diploma of Biochemistry, Very Good, Faculty of Science, **Alexandria Univ.**, 2000.
- ◆ B.Sc., Very Good, Chemistry Dept., Faculty of Science, **Cairo University**, 1999.

Abroad Scientific Missions:

- 1- Scientific mission in USA for attending semester abroad " Faculty Development Program" 15th January to 15th Jun, 2024, **Temple university, USA**.
- 2- Scientific mission in USA for attending "Fulbright Junior Faculty Development Program" 5th July to 13th September, 2017, **Texas, USA**.
- 3- Scientific mission in Japan for attending a training in the field of Agro Environmental sciences, 22nd February to 14th March, 2017, **Kyushu University, Japan**.

- 4- Scientific mission in Japan for training program entitled "Trans-boundary Pollution and Integrated Research Studies in East Asia". March 7th -12th 2016, **Kanazawa University, Japan.**
- 5- Post-doctoral mission in Japan, Kanazawa University, Graduate School of Environmental Science and Technology Hygienic Chemistry laboratory, from September 2013 to April 2014. **Kanazawa University, Japan.**
- 6- Scientific training mission in Japan as JICA participant for a course deals with wastewater treatment technologies from October 2007 to February 2008, **Kyushu, Japan.**

◆ **Publications:**

63	<p>"Integrated Evaluation of Heavy Metals, Pesticide Residues, Microbial contamination in Agricultural Soils and Irrigation Water along the River Nile, Upper Egypt, Case study"</p> <p><u>Hossam F. Nassar</u> [Environmental Systems Research, 2026].</p>
62	<p>"Enhanced Anaerobic Co-Digestion of Hazardous Black Liquor for Improved Biogas Production: Toward Waste Valorization to Fulfill the Sustainable Development Goals (SDGs) "</p> <p>Ahmed Omran, Gamal Kamel Hassan, Przemyslaw Kowal, and <u>Hossam F. Nassar</u>, [Egyptian Journal of Chemistry, DOI:10.21608/ejchem.2026.454194.12819].</p>
61	<p>"Comparative study of photothermal conversion efficiency of laser-ablated Ag, Au, and CuO nanoparticles for solar steam generation applications"</p> <p>Walaa Gouda a b, Hamdy Maamoun Abdel-Ghafar b, Hossam Fathy Nassar a, Tarek Mohamed c [Solar Energy Materials and Solar Cells, Volume 289, 15 August 2025, 113692]</p>
60	<p>"Effectiveness of banana peels as an affordable biosorbent for heavy metals and microbial pathogens removal from municipal wastewater"</p> <p>Rehab F. Mohamed; Moahmed Azab Rashed El-Liethy Ahmed A. Afifi and <u>Hossam F. Nassar</u> [Applied Water Science, 2025]</p>
59	<p>"Banana peels as an eco-friendly nano-biosorbent for mitigation of heavy metals pollutants and microbial pathogens removal from contaminated wastewater"</p> <p>[Applied Water Science, 15(7),DOI:10.1007/s13201-025-02518-x, 2025]</p> <p>Rehab F. Mohamed; Moahmed Azab Rashed El-Liethy Ahmed A. Afifi and <u>Hossam F. Nassar</u></p>

58	<p>"Preparation and evaluation of altered zeolite and diatomite as affordable adsorbents in contaminated water treatment"</p> <p>Mansour, H.; Nassar, Hossam F.; Zaghoul, A.; Kabary, H.; Ahmed, Sayed A. [Applied Water Science, 15(7),DOI:10.1007/s13201-025-02518-x, 2025]</p>
57	<p>"Nano-engineered magnesium enriched sugarcane bagasse for dual decontamination of heavy metals and E-coli in sewage water "</p> <p>Rehab Mohamed, Ahmed A. Afifi, Mohamed Azab El-Lietthy and Hossam F. Nassar [Journal of Nano- structures and Nano- objects, 42, 2025].</p>
56	<p>"Remediation of Toxic Black Liquor with Boosting of Biomethane production through anaerobic digestion process to meet sustainable development goals (SDGs) with shifting of microbial community structure".</p> <p>Ahmed I. Omran, Gamal Kamel Hassan, Mohamed Ali, Hussien Al-Hazmi, Przemysław Kowal *, Asmaa S. Hamouda, Hossam F. Nassar * [Processes, Supmitted, 2024]</p>
55	<p>" Boosting the mechanical performance and fire resistivity of white ordinary portland cement pastes via biogenic mesoporous silica nanoparticles</p> <p>"Abdallah A. Aziz, Hossam F. Nassar * , Mona T. Al-Shemy ^b, O. A. Mohamed [Scientific reports, 15:2909, Accepted, 2024].</p>
54	<p>"Environmental Sciences Europe: Decision on "Seasonal variation effect on water quality and sediments criteria and its influence on soil pollution: Fayoum Governorate, Egypt".</p> <p>H. Mansour, Sayed A. Ahmed, A. Zaghoul, H. Kabary, Hossam F. Nassar* [Environmental Sciences Europe, 2024].</p>
53	<p>"Sustainable HPLC Technique for Measurement of Antidiabetic Drugs : Appraisal of Green and White Metrics, Content Uniformity, and In Vitro Dissolution".</p> <p>Asma S. Al-Wasidi, Hoda A. Ahmed, Samar M. Mahgoub, Mahmoud A. Mohamed*, and Hossam F. Nassar* [Reviews in Analytical Chemistry, Accepted, 2024]</p>
52	<p>"Adsorption separation of oxytetracycline hydrochloride using natural and nanostructured clay mineral of silica in synthetic solution: Integration to white and green chemistry "metrics. "</p> <p>Nabila Shehata, Mahmoud A. Mohamed and Hossam F. Nassar * [Sustainable Chemistry and Pharmacy, 39, 2024, 101574]</p>

51	<p>"Advanced Treatment Technologies for Recalcitrant Pollutants Degradation in Wastewater: Review Article"</p> <p>Mariam E. Fawzy*, Hussein A.Ahmed and <u>Hossam F. Nassar</u> [EJCHEM, Accepted, Jan, 2024]</p>
50	<p>"Removal of Arsenic(V) Using Pure Zeolite (PZ) and Activated Dithizone Zeolite 1 (ADZ) from Aqueous liquids: Application to Green Analytical Chemistry".</p> <p><u>Hossam F. Nassar</u>* and Mahmoud A. Mohamed [Analytical Science, Accepted, January, 2024]</p>
49	<p>"Wastewater Treatment in Bani-Siouf Governorate using Membrane Bioreactor in Compare with the Conventional Treatment".</p> <p>Nagla Ahmed Ibrahim Ahmed,a Ali M. Abdullah,b and <u>Hossam F. Nassar</u> [EJCHEM, Accepted, December, 2023]</p>
48	<p>"Effect of Temperature and Total Dissolved Solids on the Performance of Activated Sludge Process for Oil Refinery Wastewater: Case Study. "</p> <p>Mohamed El-Sayed El-Mahdy, Shimaa S. Kassem*, Mariam E. Fawzy*, Naglaa S. Mohamed and <u>Hossam F. Nassar</u> [EJCHEM, Accepted, December, 2023]</p>
47	<p>"Five Greenness Assessments of Novel RP-UPLC and MCR Methods for Concurrent Determination of Selected Pharmaceutical Drugs in Comparison with the Lean Six Sigma Approach".</p> <p>Tahani Y. A. Alanazi, Manal A. Almalki, Mahmoud A. Mohamed and <u>Hossam F. Nassar</u> [Microchemical Journal, September 12, 2023]</p>
46	<p>"Facile Synthesis and Eco-Friendly Analytical Methods for Concurrent Estimation of Selected Pharmaceutical Drugs in their Solutions: Application to Quality by Design, Lean Six Sigma, and Stability Studies".</p> <p>Mahmoud A. Mohamed and <u>Hossam F. Nassar</u> [BMC Chemistry, accepted September, 2023]</p>
45	<p>"Assessment, Characterization, and Separation of Alizarin Red Dye from Aqueous Solution Using M-Fe Layered Double Hydroxide" has been successfully submitted online to Desalination and Water Treatment".</p> <p><u>Hossam F. Nassar</u>, Hussein M. Ahmed and Mariam E. Fawzy [Desalination and Water Treatment, accepted July. 2023]</p>

44	<p>"Condition optimization of eco-friendly RP-HPLC and MCR methods via Box–Behnken design and six sigma approach for detecting antibiotic residues. " (10.1038/s41598-023-40010-1)</p> <p>Mahmoud A. Mohamed and <u>Hossam F. Nassar</u> [Scientific Report, accepted July, 2023]</p>
43	<p>"Trihalomethanes existence evaluation in drinking water of Beni-Suef governorate and associated health risks"</p> <p>Marwa R. Ahmed, Ali M. Abdullah and <u>Hossam F. Nassar</u> [EJCHEM, Accepted, July, 2023]</p>
42	<p>"Study of the existence of some pharmaceutical residues and the associated human risks"</p> <p>Gamila R. Mahmoud, Ali M. Abdullah and <u>Hossam F. Nassar</u> [EJCHEM, Accepted, July, 2023]</p>
41	<p>"Constructing ultraporous activated hollow carbon nanospheres derived from rotten grapes from boosting energy density lifespan super capacitors."</p> <p>Sohila A. Salheen, <u>Hossam F. Nassar</u>, Sonia Dsoke, Ahmed G. El-Deen [Colloids and Surfaces A: Physicochemical and Engineering Aspects, .2022.130821]</p>
40	<p>"Stability Indicating RP-UPLC Method for Determination of Antihypertensive Drugs and their Degradation products in Tablets; Application to Content Uniformity and Dissolution Studies."</p> <p>Mahmoud A. Mohamed and <u>Hossam F. Nassar</u> [Journal of the Iranian Chemical Society (JICS); Accepted, December 2022]</p>
39	<p>"A validated square-wave voltammetric method for simultaneous determination of two insecticide metabolites: 3,5,6-trichloro-2-pyridinol and malathion diacid and their binding constants with human serum albumin."</p> <p>Nagwa Abo El-Maali1, Naglaa S. Shafea, Hamada M. Mahmoud and <u>Hossam F. Nassar</u> [Separation Science plus;1–12, 2022]</p>
38	<p>"Chicken bone ash as an efficient adsorbent for phenol removal from aqueous solution. "</p> <p>Mariam E. Fawzy, Hussein M. Ahmed and <u>Hossam F. Nassar</u> [Desalination and water treatment, Accepted, November, 2022]</p>
37	<p>"Iron trimesic metal organic framework as nano adsorbents for tetracycline and ceftriaxone contaminated wastewater effluents. "</p> <p><u>Hossam F. Nassar</u>, Alzahraa Shaban, amal zaher, Taha Abdelmonein, Esaraa Salama, Yasser gaber, Nabila Shehata, Reda Abdelhameed, Rehab Mahmoud [EJCHEM, Accepted, August, 2022]</p>

36	<p>"Effective Chemical Coagulation Treatment Process for Cationic and Anionic Dyes Degradation. "</p> <p>Hussein M. Ahmed Mariam E. Fawzy and <u>Hossam F. Nassar</u> [EJCHEM, 65 (8), 299-307, 2022]</p>
35	<p>"Comparing the Efficiency of Nanostructured Pure and Modified ZnO in the Photocatalytic Degradation of Acridine Orange Dye from Wastewater."</p> <p><u>Hossam F. Nassar</u>^c [EJCHEM, 65(10), 1-2, 2022]</p>
34	<p>"Temporal Variation of the Duckweed Efficiency in Wastewater Treatment. "</p> <p><u>HOSSAM F. NASSAR</u>, HADEER E. ELSHERIF, HAMADA M. MAHMUD [PLANT CELL BIOTECHNOLOGY AND MOLECULAR BIOLOGY, Volume 22, Issue 71-72, Page 141-150, 2021]</p>
33	<p>"Duckweed-Lemna Minor as Green Route for Removal of Chromium (VI) from Aqueous Solution."</p> <p><u>Hossam F. Nassar</u> and Medhat Ibrahim [International Journal of Environmental Research, 15, 275–284, 2021]</p>
32	<p>"The Duckweed, Lemna minor Modulates Heavy Metal-Induced Oxidative Stress in the Nile Tilapia, Oreochromis niloticus. "</p> <p>Fagr Kh. Abdel-Gawad, Wagdy K. B. Khalil, Samah M. Bassem ,Vikas Kumar, Costantino Parisi ,Sara Inglese, Tarek A. Temraz, <u>Hossam F. Nassar</u> , and Giulia Guerriero [Water 2020, 12(11), 2983].</p>
31	<p>"Influence of Benz[a] anthracene on Bone Metabolism and on Liver Metabolism in Nibbler Fish, Girella punctate. "</p> <p>Mohamed I. Zanaty, Niina Sawada, Yoichiro Kitani, <u>Hossam F. Nassar</u>, Hamada M. Mahmoud, Kazuichi Hayakawa, Toshio Sekiguchi, Shouzo Ogiso, Yoshiaki Tabuchi, Makoto Urata, Hajime Matsubara, Yutaka Takeuchi, Atsuhiko Hattori, Ajai K. Srivastav, Thumronk Amornsakun and Nobuo Suzuki. [Int. J. Environ. Res. Public Health 2020, 17, 1391].</p>
30	<p>"Gamma radiation as a green method to enhance the dielectric behavior, magnetization, antibacterial activity and dye removal capacity of Co-Fe LDH nano-sheets, "</p> <p>Amin, Rafat; Taha, Mohamed; Mohamed, Samah; Abo El-Ela, Fatma; <u>Nassar, Hossam</u>; Gadelhak, Yasser; Amar, Rehab. [RSC Advances journal, 56, 32544-32561, 2019].</p>
29	<p>"Computational and experimental studies on the efficient removal of diclofenac from water using ZnFe-layered double hydroxide as an environmentally benign absorbent. "</p>

	<p>Heba A. Younes, Mohamed Taha, Maha M. Abdelrahman Hamada M. Mahmoud, <u>Hossam F. Nassar</u> and Rehab Kh. Khaled. [Journal of the Taiwan Institute of Chemical Engineers, Accepted, June 2019].</p>
28	<p>"Molecular design of mass-separating agents for separation of cyclic ethers and acetonitrile from water. "</p> <p>Mohamed Taha and <u>Hossam F. Nassar</u>. [Journal of Molecular Liquids, 281, 324-331, 2019].</p>
27	<p>"Removal of emerging contaminants from municipal wastewater using a compartmentalized anaerobic baffled reactor: Effect of organic loading rate."</p> <p><u>Hossam F. Nassar</u>. [Egyptian journal of Chemistry, Vol. 62, No.3 pp, 2019].</p>
26	<p>"Influence of polluted sea water in the Red Sea on the osteoclasts and osteoblasts of goldfish, Carassius auratus."</p> <p>Mohamed I. ZANATY, <u>Hossam F. NASSAR</u>, Hamada M. MAHMOUD, Fagr Kh. ABDEL-GAWAD, Masayuki SATO, Koji YACHIGUCHI, Nobuaki SHIMIZU, Kazuichi HAYAKAWA, Atsuhiko HATTORI, Koki MUKAI, Yohei SHIMASAKI, Yuji OSHIMA, and Nobuo SUZUKI* [Journal of the faculty of Agriculture, Kyushu university, 64 (2), 287–291 (2019)].</p>
25	<p>"Seasonal occurrence, removal efficiency and associated ecological risk assessment of three antibiotics in a municipal wastewater treatment plant in Egypt. "</p> <p>Heba A. Younes, Hamada M. Mahmoud, Maha M. Abdelrahman and <u>Hossam F. Nassar</u>. [Environmental Nanotechnology, Monitoring & Management 12 (2019) 100239].</p>
23	<p>Spectroscopic analysis and genotoxicity of dioxins in the aquatic environment of Alexandria. "</p> <p>Fagr Kh. Abdel-Gawad, Osama Osman, Samah M. Bassem, <u>Hossam F. Nassar</u>, Tarek A. Temraz, Noman El Haes and Medhat Ibrahim [Marine Pollution Bulletin, 127, 618-625, 2018].</p>
22	<p>"Detection, ecological risk assessment and removal efficiency of diclofenac and caffeine in wastewater treatment plant, the 4th international conference on advanced applied sciences. "</p> <p>Heba A. Younes, Hamada M. Mahmoud, Maha M. Abdelrahman and <u>Hossam F. Nassar</u>. [Materials science and engineering, IOP conf. series: 464(2018)012001. doi: 10.1088/1757-9x/464/1/012001,2018].</p>
21	<p>"Human Health Risks Due to Fish Consumption from Nile River at Beni-Suef-Governorate-Egypt. "</p> <p>Fatma Mabrook1, <u>Hossam F. Nassar</u>, Asmaa S. Hamouda and Hamada M. Mahmoud [Asian Journal of Fisheries and Aquatic Research, 2(4): 1-13, 2018].</p>
20	<p>"Interaction between nano Silver and bacteria: Modeling Approach. "</p> <p>Noha M. Sabry, Sahar Tolba, Fagr kh. Abdel-Gawad, Samah M. Bassem, <u>Hossam F. Nassar</u>,</p>

	Gamila E. El-Taweel, Aly Okasha, Medhat Ibrahim [Bio-interface Research in Applied Chemistry, 8(5), 3570 - 3574 (2018)].
19	"On the molecular modeling analyses of the interaction between nano zinc oxide and bacteria." Noha M. Sabry, Sahar Tolba, Fagr kh. Abdel-Gawad, Samah M. Bassem, <u>Hossam F. Nassar</u> , Gamila E. El-Taweel, Aly Okasha, Medhat Ibrahim [Bio-interface Research in Applied Chemistry, 8 (3) 3294 - 3297 (2018)].
18	"Occurrence and Risk Assessment of Polycyclic Cyclic Aromatic Hydrocarbons (PAHs) and Their Nitro Derivatives (NPAHs) in Nile River and Esmailia Canal in Egypt. " <u>Nassar, H. F.</u> , Tang, N., Toriba, A., Abdel-Gawad, F. Kh., Hayakawa, K. [International Journal of Scientific and Engineering Research (IJSER) 6 (8) 2229 – 5518, 2016].
17	"Monitoring and Risk Assessment of Selected Pesticide Congeners (PCBs) in Nile River Waters, Egypt. " <u>Hossam F. Nassar</u> . [Egyptian journal of Chemistry, 60(6), 977-984, 2017].
16	"Comparison between dissolved and particulate polycyclic aromatic hydrocarbons (PAH) and nitro-polycyclic aromatic hydrocarbons (NPAH) concentration levels in surface waters from the Mediterranean Sea Alexandria coast. " <u>Hossam F. Nassar</u> . [Journal of Environmental Sciences and Technology,10(6), 290-298, 2017].
15	"Ecological Risk Assessment of Metals Contaminated Sediments from the Nile River at Beni-Suef Governorate, Egypt. " Hamada M. Mahmoud, <u>Hossam F. Nassar*</u> , Asmaa S. Hamouda, and Fatma Mabrook. [Journal of Applied Sciences International, 14(1),1-11, 2017].
14	"Spatio-temporal Variation and Health Risk Assessment of Selected Metals in Nile River Water, Beni-Suef Governorate, Egypt. " Hamada. M. Mahmoud, Asmaa. S. Hamouda, <u>Hossam. F. Nassar*</u> , Fatma Mabrook. [Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS), 7(5), 2555-2567, 2016].
13	"Occurrence and Rapid Enzymatic Detection of Candida spp. in Drinking Water; A Correlation with Bacterial Indicators and Physicochemical Parameters. " Om kolthoum H Khattab, Amany A Abo-Elnasr, Raed S Al-Wasify, <u>Hossam F. Nassar</u> , and Mohamed A Abbas [Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(2), 455-462, 2016].

12	<p>"Occurrence and Risk Assessment of Polycyclic Cyclic Aromatic Hydrocarbons (PAHs) and Their Nitro Derivatives (NPAHs) in Nile River and Esmailia Canal in Egypt. "</p> <p><u>Nassar, H. F.</u>, Tang, N., Toriba, A., Abdel-Gawad, F. Kh., Hayakawa, K. [International Journal of Scientific and Engineering Research (IJSER) 6 (8) 2229 – 5518, 2016].</p>
11	<p>"Polluted-seawater including highly-concentrated polycyclic aromatic hydrocarbons suppresses on osteoblastic activity in the scales of goldfish, Carassius auratus. "</p> <p>Nobuo Suzuki, Masayuki Sato, <u>Hossam F. Nassar</u>, et al., and Kazuichi Hayakawa. [Zoological Science. 33(4), 407-413, 2016].</p>
10	<p>"Photocatalytic degradation of bromophenol blue in wastewater using pure ZnO and Ag+ doped ZnO. "</p> <p>Abdel-Khalek A. A., <u>Nassar, H. F.</u>, Abdel-Gawad, F. Kh., Bassem, S., Awad, S [Quantum matter. Vol. 5: Issue 5, 1-8, 2016].</p>
9	<p>Environmental carcinogenic polycyclic aromatic hydrocarbons (PAHs): concentrations, sources and hazard effects. "</p> <p><u>Nassar, H. F.</u>, Tang, N., Toriba, A., Abdel-Gawad, F.Kh., Guerriero, G., Basem, S. M., and Hayakawa, K. [International Journal of Advanced Research (IJAR). 3(10), 511-524, 2015].</p>
8	<p>"Utilization of duckweed (DW) in nutrient removal from agricultural waste water and producing alternative economic animal fodder. "</p> <p><u>Nassar, H. F.</u>, Shaban, M., A., Bassem, M. S., and Abdel-Gawad Kh., F. [Der Pharma Chemica. 7: Issue 12, 280-285, 2015].</p>
7	<p>"Photocatalytic degradation of Methyl Green (MG) dye in aqueous solution using pure ZnO and Ag⁺ doped ZnO. "</p> <p>Abdel-Khalek A. A., <u>Nassar, H. F.</u>, Abdel-Gawad, F., Hashem, A. [Der Pharma Chemica, 7(12),264-274, 2015].</p>
6	<p>"Toxicogenomics for water quality assessment. "</p> <p>Fagr Kh. Abdel-Gawad, Giulia Guerriero, Samah M. Basem and <u>Hossam F. Nassar</u>, [Der Pharma Chemica, 7(12):377-381, 2015].</p>
5	<p>"Effect of Polycyclic Aromatic Hydrocarbons (PAHs) on Modulate Genes Encoding Stress Related Proteins and Antioxidant Enzymes in Different Marine Fish Species of Red Sea Water.</p>

	<p>Abdel-Gawad, F. Kh., Nassar, H. F., Bassem, S.M., Guerriero, G. and Khalil, W.K.B [World Applied Sciences Journal (WASJ), 32(12), 2337-2347, 2014].</p>
4	<p>On-line Concentration and Fluorescence Determination HPLC for Polycyclic Aromatic hydrocarbons in Seawater Samples and Its Application to Japan Sea. " , Y., Yoshida, S., Chondo, Y., Nassar, H. F., Tang, N., Araki, Y., Toriba, A., Kameda, T., Hayakawa, K. Chemical & Pharmaceutical Bulletin, 60: 531-535, 2012].</p>
3	<p>"Atmospheric concentrations of polycyclic aromatic hydrocarbons and selected nitrated derivatives in Greater Cairo, Egypt. " Nassar, H. F., Tang, N., Kameda, T., Toriba, A., Khoder, M. I., Hayakawa, K. [Atmospheric Environment 45: 27352- 27359, 2011].</p>
2	<p>"Characteristics of polycyclic aromatic hydrocarbons and selected nitro derivatives in Cairo, Egypt from the comparison with Japanese typical traffic and industrial cities. In: Proceedings of the 2011 INEF Environmental Forensic Conference. Eds. R. Morrison and G. O'Sullivan. " Nassar, H. F., Kameda,T., Toriba, A., Hayakawa, K. [Royal Society of Chemistry, (RSC), Cambridge, UK 171-180, 2011].</p>
1	<p>Treatment of domestic wastewater using Anaerobic Baffled Reactor followed by duckweed pond for Agricultural purposes. " Nassar, F. A., Doma, H. S., Nassar, H. F Environmentalist 29:270-279, 2007].</p>

◆ **Memberships & Committees:**

- 1- Member in IWP (International Water Professionals) since June, 2010.
- 2- Member in the Japan YWP (Young Water Professionals) association since June, 2010.
- 3- Member of "African Society for Nile Basin Studies (ASNBS)", Published No 957 / 1989", 2013.
- 4- Member in the Quality control committee in the National Research Center Since 2014
- 5- Member in the Internal Auditing committee in the National Research Center Since 2015.
- 6- Member in the technical inspection committee in the National Research Center Since 2015.
- 7- I am a board member of quality office and head of quality managers for the laboratories instrumentation calibration in the National Research Center Since 2016.

- 8- Scientific consultant in Misr Al-Khair organization (NGO) in the field of Environmental sciences and water treatment issues since March, 2016.
- 9- Member of Sustainable Sanitation Alliance (SuSanA) forum, since 2016.

◆ **Awards:**

- 1- Got the prize of the scientific production as one of the best researchers scientific activity from the National Research Center (NRC), June, 2014.
- 2- Got the prize of the scientific production as one of the best researchers scientific activity from the National Research Center (NRC), June, 2015.
- 3- Got the prize of one of the best four presentations in the International Network of Environmental Forensics (**INEF 2011**). July 24-27, 2011 St John's College, Cambridge, UK.

◆ **Projects:**

- 1- Acting as member of a project entitled "[State-of-the-art chromatography and spectroscopy techniques offer high accuracy in determining pharmaceutical drugs in pure, dosage forms, and environmental samples: application to green and white chemistry](#)". funded from Princess Nourah bint Abdulrahman University (PNU), KSA, January 2023.
- 2- Acting as PI for a project of "[Advanced removal of selected pharmaceutical residues from wastewater using nano-metal/organic frameworks \(MOFs\)](#)" funded from the Beni-Suef university, February 2020 - August 2021.
- 3- Acting as PI for a project of "[The Quality and Certified Laboratories ISO 17025](#)", funded from the higher ministry of education, June 2017- May 2019.
- 4- Acting as PI for an international cooperation project entitled "[Applying the sustainable RAS technology \(Recirculating Aquaculture System\) in which we treat and reuse the fish wastewater in aquaculture and irrigation](#)". In cooperation with Fraunhofer institute in Germany, 2016-2017.
- 5- Acting as a Co-PI for national project entitled "[Developing of Integrated Farm Proto-type Modules in South Sinai, 2013 – 2016](#)". Funded from the National Research Center (NRC).
- 6- Acting as Co- PI for national project entitled "[Synthesis of new chelating agents bonded with biopolymeric and Eco-friendly polymeric materials for underground water treatment, 2013 – 2016](#)". Funded from the National Research Center (NRC).
- 7- Acting as a member for national project entitled "[Active Removal of Dyestuffs from Textile Industrial Wastewater using Physico-Chemical and Biological Methods](#)", 2013 - 2016". Funded from the National Research Center (NRC).

- 8- Acting as a member for project entitled "Effect of growth promoters extracted from marine organisms on growth performance and sex revert in tilapia 2014-2016". Funded from the STDF.
- 9- Acting as a Co-PI for project entitled "Establishment and implementation of an integrated farm in Halayeb and Shalateen 2014-2016". Funded from the ASTR.
- 10- Acting as a member for project entitled "Synthesis of new chelating agents bonded with bio-polymeric and Eco-friendly polymeric materials for underground water treatment". Funded from the STDF.

◆ **Training Courses:**

- 1- Scientific mission in USA for attending semester abroad " Faculty Development Program" 15th January to 15th Jun, 2024, **Temple university, USA.**
- 2- Training program of "Fulbright Junior Faculty Development" July 5th to September 13th 2017. **Texas, USA**
- 3- Training program of "Agro Environmental sciences", 22nd February to 14th March, 2017, **Kyushu University, Japan.**
- 4- Training program entitled "Trans-boundary Pollution and Integrated Research Studies in East Asia". March 7th -12th 2016, **Kanazawa University, Japan.**
- 5- Training program of (TOT) training of trainer as a certified trainer from the International Board of Certified Trainers (IBCT), **2016, BSU.**
- 6- Training program of "Quality management and ISO 9001". Egyptian Council of Quality, 2014, **Egypt.**
- 7- Training program of "Internal auditing program". Egyptian Council of Quality, 2014, **Egypt.**
- 8- Trainer program entitled "Traditional and Advanced Technologies for Wastewater Treatment" 27th April to 1st May, 2014, **NRC, Egypt.**
- 9- Trainer program entitled "Treatment technologies for municipal and industrial wastewater". 24th to 28th Feb., 2013, **NRC, Egypt.**
- 10- Training program of "Industrial Pollution Control Management For Middle Eastern Countries". November. 2007 to February 2008. **Japan International Cooperation Agency (JICA), Kita Kyushu, Japan.**

◆ **Conferences, symposiums and workshops:**

No.		Country/Date
33	Water Center of Excellence 2nd Conference	Cairo, 2023
32	Water Center of Excellence 2nd Conference	Cairo, 2023

31	Fifth Annual Scientific Conference, Faculty of Science, BSU	22/3/2022
30	Water Center of Excellence Education skills Work Shop	Beni- Suef, 2022
29	Water Center of Excellence 1 st Conference	Alex, 2021
28	Organizing committee for the International Conference on Advanced Sciences (ICAS5),	Hurghada, Egypt. 9 th -12 th Nov. 2019.
27	Attending international Conference Konrad Adenauer Stiftung (KAS-REMENA) African Climate Perspectives on Migration.	Morocco, Rabat, July 1-2, 2019,
26	Palestinian First International Water Forum	Ram-Allah, Palestine, June 25- 2,2018
25	Organizing committee for the International Conference on Advanced Sciences (ICAS4),	Hurghada, Egypt. 7 th -10 th Nov. 2017.
24	Workshop of "Student-Centered Teaching Series of: Course Syllabus, Intertactive Teaching, Inclusive Teaching and Curriculum Design".	Texas University, USA, 5 th July – 13 th Sept., 2017
23	The 3rd International Conference on Future Prospects for Sustainable Environmental Development in the Arab States and Meeting Challenges	Sharm El-Sheikh, Egypt, 18-21 December 2016
22	International conference of Environmental Security and Global Climate Change	Beni-Suef University, Egypt, 10-12 April, 2016
21	Plasmonic Decorated Titanium Dioxide 3D Nanostructures Photoelectrodes for Water Splitting (workshop).	Beni-Suef University, Egypt, 19 th March 2017 19 th March 2017
20	Nanomaterials in Agricultural applications (workshop).	Beni-Suef University, Egypt, 15 th January 2017
19	Participated as a key note speaker in “International Symposium of Trans-boundary Pollution and Integrated Research Studies” (International Symposium for environmental research in East Asia).	Kanazawa University, Japan, March 7th -10th 2016
18	Health errors in laboratories and how to avoid them	Beni-Suef University, Egypt, 17 th November, 2016
17	Participated the international workshop entitled “Genetic plant resources: Keeping, documentation and good reuse”.	National Research Center (NRC), Cairo, Egypt. Aug. 24-25, 2015
16	I was a coordinator for the “2nd international conference on Biotechnology and Environmental Safety”.	National Research Center (NRC), Cairo, Egypt. May 6-8, 2014
15	Participated as a speaker in “Behaviors of Polycyclic Aromatic Hydrocarbons and Radioactive Compounds in marine and	Kanazawa University, Japan.

	atmosphere environment at East Asia". The 3rd Japanese-Russian joint project founded by Japan Society for the Promotion of Science. Abstract publication entitled (Occurrence and risk assessment of polycyclic aromatic hydrocarbons and their nitrated derivatives in aquatic environment in Egypt).	February 7 th 2014
14	Participated in "Current Status, Future Perspectives and Role of Technology in Emerging, Zoonotic, and infectious Diseases Research and Response". The joint workshop of National Research Center, Egypt and Goerge Washington University, USA. Abstract publication titled (The Relation Between Emerging Contaminants and Endocrine Disrupure).	National Research Center (NRC), Cairo, Egypt. April 15-18, 2013
13	Participated in "Urban Environmental Pollution: Creating Healthy, Liveable Cities". Abstract publication and poster presentation titled (Assessment of polycyclic aromatic hydrocarbons (PAH) and selected nitro derivatives (NPAH) in water environment in Egypt).	Amsterdam, The Netherlands June 17-20, 2012
12	Participated in "8 th International Workshop on the Persistent Toxic Substances (PTS) and Persistent Organic Pollutants (POPs) Ecological Issues in the NOWPAP Region".	Kanazawa Excel Hotel Tokyu, Kanazawa, Ishikawa, Japan. April 23 rd , 2012
11	Participated in "5 th International Symposium on the Environment of the Rim-Japan Regions".	Faculty of Natural Science and Technology, Kanazawa University, Japan. Feb 3-4, 2012
10	Participated in "Japanese Environmental Agency FY 2 nd meeting of Environment Research and Technology Department Fund Project".	Faculty of Natural Science and Technology Kanazawa, Japan. January 23, 2012
9	Participated in "International Network of Environmental Forensics (INEF 2011)". Manuscript publication and oral presentation titled (Investigation of polycyclic aromatic hydrocarbons and selected nitrated derivatives in Greater Cairo, Egypt)..	St John's College, Cambridge, UK. July 24-27, 2011
8	Participated in "IUPAC International Congress on Analytical Science 2011 (ICAS 2011)". Abstract publication and oral presentation titled (Comparative study between the concentration of polycyclic aromatic hydrocarbons and selected nitrated derivatives in Greater Cairo, Egypt and some East Asian cities).	Kyoto, Japan May 22-26, 2011
7	Participated in "52 nd meeting of Korean Society for Atmospheric Environment (KOSAE) 2011". Abstract publication and oral presentations.	Faculty of Natural Science and Technology,

		Kanazawa University, Japan. May 12-14, 2011
6	Participated in “2011 Environmental, Aging and Radiation Research Project Symposium, Japan Society for the Promotion of Science, Japan-Korea Basic Scientific Cooperative Program”. Abstract publication and both oral and poster presentations.	Faculty of Natural Science and Technology, Kanazawa University, Japan. January 27, 2011
5	Participated in “Japan- Young Water Professionals (YWP) 1st international workshops”.	Yokohama National University, Japan. June 6 th , 2010
4	Participated in “Water and Environment Technology Conference (WET 2010) international forum for scientists and engineers”. Abstract publication and both oral and poster presentations).	Yokohama National University, Japan June 25-26, 2010.
3	Participated in “ 2010 International Symposium on Environmental Monitoring in East Asia “EMEA 2010 in Kanazawa”. Remote Sensing and Field Research for Forest and Precipitation Monitoring,	Faculty of Natural Science and Technology, Kanazawa University, Japan. September 27-28, 2010
2	Participated in “Asia and Africa Science Platform Program International Seminar, Environment and Health”.	Pharmaceutical Sciences, Kanazawa University, Japan. , September 24-25, 2010
1	Participated in “Symposium of Environmental Science and Infectious Diseases”.	Takaramachi Campus, Kanazawa University, Japan. March 24, 2010

◆ Authorship:

Co-author of international Books publication entitled:

- 1- “Polycyclic Aromatic Hydrocarbons: Environmental Behavior and Toxicity in East Asia, 1st ed. 2018”.
Publisher: Springer Nature, 2018.
- 2- "Emission Sources of Polycyclic Aromatic Hydrocarbons/Nitropolycyclic Aromatic Hydrocarbons in Cairo, Egypt, Including Source Markers".
Publisher: Springer Nature, 2017.

◆ International Agreements:

Act as focal point for the signed agreement between:

- 1- School of Environmental science and technology, Kanazawa University, Japan and Beni-Suef University, Egypt
- 2- Faculty of Agricultural Science Kyushu University, Japan and Faculty of PSAS, Beni-Suef University, Egypt
- 3- Faculty of Biological and agricultural sciences, Texas A&M, University, USA and Beni-Suef University, Egypt.