

## CV

### Professor Dr. Kossay k. Al-Ahmady

Name	Kossay Kamalaldeen Dawod Al-Ahmady		
Academic Rank	Professor		
Academic Degrees	( <b>B.Sc.</b> Civil Engineering - University of Mosul) ( <b>M.Sc.</b> Civil Engineering - University of Mosul) ( <b>PhD</b> Civil Engineering - Saint Petersburg State University) ( <b>Post PhD</b> – University of North Texas)		
Date of Birth	29 / 7 / 1966		
Languages	Arabic, English and Russian		
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<b>Employment History</b>			
April 2025 till now	Iraqi Cultural Attache' – London - UK		
Jan.2019 - Nov.2024	President of the University of Mosul.		
June 2018 – Jan.2019	Dean of the College of Petroleum and Mining Engineering, University of Mosul.		
June 2013 till June 2018	Dean of the College of Environment, University of Mosul. Dean of the College of Petroleum and Mining Engineering, University of Mosul.		
July 2011 to June 2013	Head of the Environmental Engineering Department, College of Engineering, University of Mosul.		
July 2010 to July 2011	Assistant Professor at the University of Mosul, College of Engineering, Civil Engineering Department.		
Sept. 2009 to July 2010	Visiting Professor at the university of North Texas, Applied Science Department, USA.		
Oct. 2007 to Sept. 2009	Assistant Professor at the University of Mosul, College of Engineering, Civil Engineering Department.		
May 2004 to Oct. 2007	Lecturer at the University of Mosul, College of Engineering, Civil Engineering Department.		
Nov. 1999 to April 2004	PhD program in the field of Water and Wastewater Treatment, at the Saint Petersburg State University of Architecture and Civil Engineering.		
Dec. 1995 to Dec. 1999	Assistant Lecturer at the University of Mosul, College of Engineering, Civil Engineering Department.		
Oct. 1993 to Dec. 1995	M.Sc. Study in the Environmental Engineering at the University of Mosul, College of Engineering - Civil Engineering Department.		
March 1992 to Oct. 1993	Teaching assistance in the Civil Engineering Department - University of Mosul.		

## **Supervision of Postgraduate Studies**

1. Determining the amount of change in the thermal island of the city of Mosul and its relationship to environmental pollution is a study using geographic information systems and remote sensing, M.Sc. thesis, 2024.
2. Preparation and study of some mechanical, physical, and thermal properties of polymeric composites made of unsaturated polyester combined with different types of waste materials such as automobile glass, iron, and wood, M.Sc. thesis, 2024.
3. Biodegradation of Micro-polyvinyl chloride in Aqueous Solution, M.Sc. thesis, 2024
4. Evaluation of plastic particles and heavy elements in road dust of selected areas in Mosul city, M.Sc. thesis, 2024.
5. The effectiveness of household tap water filtration systems in removing microplastics, M.Sc. thesis, 2024
6. Evaluation of microplastic pollution indoor in the Mosul city / Iraq, M.Sc. thesis, 2023.
7. Determination and identifying plastic particles of tap water in different areas of Mosul city, M.Sc. thesis, 2023
8. Study the reality of household solid plastic waste in Hawija District/ Kirkuk governorate - Iraq, M.Sc. thesis, 2023
9. Assessment heavy metal pollution in the soil of different areas of Mosul, M.Sc. thesis, 2023.
10. Measuring the pollutants of air and noise for diesel generators at selected areas in Mosul city, M.Sc. thesis, 2023
11. The impact of traffic on air and soil pollution levels in selected areas of the city of Mosul, M.Sc. thesis, 2022
12. The role of social responsibility and evaluation in meeting the requirements of the green university: a field study at the University of Mosul, PhD dissertation, 2023.
13. The impact of Tigris River water between the source and the end user in the city of Mosul, M.Sc. thesis, 2022.
14. The effect of pollutants generated by local electric generators on air quality in different areas of the city of Mosul, M.Sc. thesis, 2022.
15. The effect of using plastic bottles more than once on the concentration of plastic particles in water, Iraq, M.Sc. thesis, 2022.
16. A study of the levels of radiation power emitted by internet network towers in selected areas of Mosul City, Iraq, M.Sc. thesis, 2022.
17. Measuring the levels of plastic pollution of particulates in the city of Mosul
18. Sustainable Management of Mosul Debris/Old City, Iraq, M.Sc. thesis, 2022.
19. The effect of local electric generations on air quality in different sites of Mosul city, Iraq, M.Sc. thesis, 2021.
20. The energy – efficient rehabilitation mechanisms of the interior environment in the educational buildings of the university of Mosul, M.Sc. thesis, 2021
21. Utilization of some of the wastes to improve some soil engineering properties, M.Sc. thesis, 2020.
22. Motivating environmental leadership behavior towards applying solid waste management: Case study at the University of Mosul, PhD dissertation, 2020

23. Measuring energy density levels emitted from mobile phone towers in selected areas of Mosul City, M.Sc. thesis, 2020.
24. The Impacts of storage period on the quality of bottled water, M.Sc. thesis, 2020.
25. Assessment of Asbestos Soil Pollution at Selected Zones in Mosul City, M.Sc. thesis, 2020.
26. Effect of internal and external recycling on the performance of Bardenpho wastewater treatment Process, M.Sc. thesis 2018.
27. Effect of elevated storage tank on the drinking water quality, M.Sc. thesis, 2018.
28. Design of the Water and Sewage Network for a Multi-Story tourist Hotel with Swimming Pool, Higher diploma project, 2018.
29. GIS based model for optimization and management of debris of the destroyed buildings in the Old City of Mosul, M.Sc. thesis 2018.
30. Evaluation of pollutant concentrations of Tigris River in the borough between the Mosul Dam and Qayara, M.Sc. thesis, 2017
31. Heavy metals contaminations of soil along roads, M.Sc. thesis, 2017.
32. Effect of Operating Conditions on the Performance of Magnetic Ballasted Flocculation Technique in Removing Turbidity, M.Sc. thesis, 2017.
33. Aeration pretreatment of wastewater, M.Sc. thesis, 2016.
34. Noise isolation capability for a range of construction materials used in Iraq, M.Sc. thesis, 2016.
35. Assessment of Air Pollutant Emissions from a Cement Industry, M.Sc. thesis, 2014.
36. Removal of Sulfate ion pollutant from simulated ground water using electrocoagulation technique, PhD dissertation, 2014.
37. Design of Plumbing for Multistory Building, Postgraduate Diploma project, 2014.
38. The Influence of Feeding Method and Organic Load Upon the Stability of Activated Sludge of Continuous and Intermittent Plug Flow, M.Sc. thesis, 2014.
39. Effect of both intermittent feeding and aeration on the efficiency and stability of plug flow activated sludge systems, M.Sc., 2013.
40. Design of water supply network and sewerage system for a residential area, Postgraduate Diploma project, 2013.
41. Effect of Recirculation mode, organic load and suspended loads on the efficiency of plastic media trickling filters, M.Sc. thesis, 2013.
42. Effect of the hydraulic detention times and the volumetric ratio of anaerobic to aerobic zone on the performance of the upgraded activated sludge using Bardenpho process, M.Sc. thesis, 2012.
43. Effect of hydraulic detention time, application load and temperature of water on the removing efficiency in duckweed based wastewater stabilization pond, M.Sc. thesis, 2012.
44. Design of the water treatment plant for (60000) capita, Postgraduate Diploma project, 2012.
45. Effect of Differences in Temperature Between Water in the Basin and Influent Water on Efficiency of Settling and Mixing Ratio in Primary Rectangular Sedimentation Tanks, M.Sc. thesis, 2011.
46. Effect of anaerobic selector basin on the performance of continuous flow activated sludge system, M.Sc. thesis, 2010.
47. The comparison between modes of extended aeration and intermittent aeration in the efficiency of the continuous flow activated sludge systems, M.Sc. thesis, 2010.
48. Performance comparison of activated sludge systems at mesophilic and thermophilic modes in

treating dairy wastewater, M.Sc. thesis, 2009.

49. The use of upflow anaerobic biological filters in the treatment of domestic greywater, M.Sc. thesis, 2008.
50. The use of dry anaerobic composting (DRANCO) technology for treating of domestic solid wastes, M.Sc. thesis, 2008.
51. Upgrading of activated sludge process using integrated fixed film activated sludge, M.Sc. thesis, 2007.

#### **Published Papers and Manuscripts**

1. Al-Ahmady, Kossay K. Altaee, R. N. and Mhemid, Rasha Khalid S. Study of effectiveness of household water filtration systems in eliminating plastic particles in Mosul city, Iraq; Journal of Ecological Engineering, Vol. 25 (9), 2024.
2. Al-Ahmady, Kossay K. Almola, M. A. and Mhemid, Rasha Khalid S.; An investigation of microplastic occurrence and heavy metals concentrations in street dust on the left side of Mosul city, Iraq; Journal of Ecological Engineering, Vol. 25 (9), 2024.
3. Al-Ahmady, Kossay K. Alnajjar, M. W. and Mhemid, Rasha Khalid S.; Fungal biodegradation of polyvinyl chloride in aqueous environment; Egyptian Journal of Aquatic and Fisheries, Vol. 28 (4), 2024.
4. Ahmady, Kossay K. Mohialdeen, Omar K. and Khattab, Suhail I. A.; Recycling of demolition waste of Al Hawija area located within Kirkuk governorate, AIP Conference Proceedings, Volume 2864, Issue 1, 2024.
5. Al-Ahmady, Kossay K. Alhajar, M. W. and Mhemid, Rasha Khalid; Biodegradation of micro-polyvinyl chloride in aqueous solution; Al-Rafidain Journal, 2024.
6. Al-Ahmady, Kossay K. Al-Hussayni, Rihab Salih and Mhemid, Rasha Khalid; Assessment of Indoor microplastic particles pollution in selected sites of Mosul city; Journal of Ecological Engineering, Volume (24), Issue (9), 2023.
7. Al-Ahmady, Kossay K. Al - Tai, Amal Sarhan Sulalman and Aljalely, Alaa Haseeb Abdul Hadi; The role of environmental performance evaluation in achieving the requirements of a green university: An Applied Study at Mosul University; Journal of Humanities and Social, Vol (2), No. (3), 2023.
8. Al-Ahmady, Kossay K. Al - Tai, Amal Sarhan Sulalman and Aljalely, Alaa Haseeb Abdul Hadi, "mplications of environmental performance assessment on achieving the requirements of the Green University/ an applied study at the Mosul University; International Journal of Central Banking, Vol. (19), No. (1), 2023.
9. Al-Ahmady, Kossay K. Al - Tai, Amal Sarhan Sulalman and Aljalely, Alaa Haseeb Abdul Hadi, Reflections of Social Responsibility on Achieving the Requirements of The Green University, an Applied Study at the University of Mosul; International Journal of Central Banking, Vol. (19), No. (1) 2023.
10. Al-Ahmady, Kossay K. Sultan, Mahmood Hameed and Mhemid, Rasha Khalid S. Microplastics evaluation in tap water in left side districts of Mosul city, Iraq; Journal of Ecological Engineering, Vol. 24 (8), 2023
11. Al-Ahmady, Kossay K. Al-Hussayni R. and Mhemid, Rasha Khalid S. Assessment of Indoor Air Pollution by Suspended Micro plastic in Selected Sites of Mosul city, College of Basic Education

Journal, Vol. 19, No. (4), 2023.

12. Al-Ahmady, Kossay K. Sultan, Mahmood Hameed and Mhemid, Rasha Khalid; Assessment of Microplastic Particles in Tap Water on The Right Side of Mosul City, Iraq” Al-Rafidain Engineering Journal, Vol. 28, No. 2, September 2023.
13. Al-Ahmady, Kossay K , Al-Sarraj, Fatima: Measuring levels of pollution with plastic particles in the city of Mosul, International Journal of Health Sciences, Volume (6), Issue (S9), 2022.
14. Al-Ahmady Kossay K.; Abdul Qader May Abdul Hafed and Al-Rawi Amara Mahmood.; Designing wastewater treatment plant by using biosynthesized titanium nanoparticles, International Journal of Health Sciences, Vol. (6), No. (S1), 2022.
15. Al-Ahmady, Kossay K, Hadid, Mustafa Zia; Check for the presence of plastic particles in bottled water reused several times and in medical nutrition bottles” Journal of Adverse Pharmaceutical Results, Volume (13), Special Issue (6), 2022.
16. Al-Ahmady, Kossay K, and Al-Hamdany, Rasha N., Assessment of the power intensity levels emitted by the internet network towers in selected areas of Mosul city, British Journal of Global Ecology and Sustainable Development, Vol. (8), Sep. 2022.
17. Al-Ahmady, Kossay K., and Ibraheem, Rasha N., A study of the levels of radiation power emitted by internet network towers in selected areas of Mosul city, International Journal of Health Sciences, Vol. 6, No. (S5), 2022.
18. Al-Ahmady, Kossay K. Hadeed, Mustafa D. Mohamed, The effect of different storage conditions for refilled plastic drink bottles on the concentration of microplastic release in water, Vol. (1), Issue (4), October, 2022.
19. Al-Ahmady, Kossay K.; Abdul Qader May Abdul Hafed and Al-Rawi Amara Mahmood.; Enhancement the resistance of concrete prepared from high sulfur super soft cement by using iron oxide nanoparticles, Biochemical and Cellular Archives, Vol. (22), Issue (2), 2022.
20. Al-Ahmady Kossay K.; and Taha, Omar E.; Water pollution between the source and the end user Indian Journal of Ecology, Vol. (48), Issue (19), 2022.
21. Al-Ahmady Kossay K.; and Hamed, Ahmed; The effect of large electric generation on air quality in different sites of Mosul city, Iraq, Indian Journal of Ecology, Vol. (48), Issue (19), 2022.
22. Al-Ahmady Kossay K.; and Salah, Ghassan Raed: Assessing air pollution and carbon oxide over the city of Mosul using the Information System (GIS), Indian Journal of Environment, Issue (IES/IJU 696-20-5682/), 2022.
23. Al-Ahmady Kossay K.; and Taha, Omar Imad; Water Pollution between the Source and the End User, Indian Journal of Environment, Vol. (48), Issue (19), 2022.
24. Al-Ahmady Kossay K.; and Jassim, Ahmed Hamed: The effect of large electric generators on air quality in different locations in the city of Mosul, Indian Journal of Environment, Vol. (48), Issue (19), 2022.
25. Al-Ahmady Kossay K., and Tayawi, Aws Nawfal; Environmental assessment of Asbestos soil pollution in Mosul international airport, 2<sup>nd</sup> Scientific remote sensing conference (SC2/RSC2021), 26-27 May, 2021.
26. Al-Ahmady Kossay K., and Al-Tamer, Maryam Yassar; Assessment of emissions risks from mobile communication antennas (Asiacell) sing GIS applications, applied study, study area: Al-Hadba municipal sector on the left side of the city of Mosul, 2<sup>nd</sup> Scientific remote sensing conference

(SC2/RSC2021), 26-27 May, 2021.

27. Al-Ahmady Kossay K.; Ahmed, Raghad; and Abdulqader, Oday; The effect of designing openings elements on energy efficiency in the educational buildings- University of Mosul, International Transaction Journal of Engineering, Management, and Applied Sciences and Technology, Vol. (12), Issue. (3), 2021.
28. Al-Ahmady Kossay K.; Idrees, Zena A.; and Abdullah, Ali M.; Evaluation of MBR Application in Comparing with Conventional Wastewater Treatment of Industrial Wastewaters, Journal of Pollution Effects and Control, Vol. (8), Issue (5), No. (257), 2020
29. Al-Ahmady Kossay K., Al-Tamer, Maryam Yassar; Environmental assessment of the electromagnetic power density emitted from the mobile phone base stations in the city of Mosul, International Journal of Environmental Monitoring and Analysis, 2020.
30. Al-Ahmady Kossay K.; AL-Shrefy, Zena A.; Sedeeq, Leena L.; and Al-Sharify, Zainab T.; Physico-chemical Survey of Bottled and Tap Water in Iraq, Journal of Green Engineering, 2020.
31. Al-Ahmady Kossay K., Al-Tamer, Maryam Yassar; Measurement of levels of electromagnetic energy density emitted by mobile phone towers in the city of Mosul, Iraq, International Journal of Plant Research, Vol. (20), No. (2), 2020
32. Al-Ahmady Kossay K., Al-Tak, Aya Ayad; Pollution detection of fine plastic particles in bottled water and tap water, International Journal of Plant Research, Vol. (20), No. (2), 2020.
33. Al-Ahmady Kossay K., Tayawi, Aws Nawfal; "Assessment of asbestos soil pollution in Mosul city", Iraq, International Journal of Plant Research, Vol. (20), No. (2), 2020.
34. Al-Ahmady Kossay K., Mohialdeen, Omar Khairialdeen and Khattab, Suhail Adrees; Utilization of some of the wastes to improve some soil engineering properties, Key Engineering Materials, Vol. (857), 2020.
35. Al-Ahmady Kossay K., Aljader, Ali Thanoon and Aljubori, Alaa Ahmad; The Reality of Environmental Leadership Behavior According to (Xuejiao, 2016) Model: Case Study at Mosul University, Tikrit Journal of Administration and Economics Sciences, Vol (52), 2020.
36. Al-Ahmady Kossay K., Aljader, Ali Thanoon and Aljubori, Alaa Ahmad; The reality of Solid Waste Management in Mosul University: A comparative study between colleges groups based on (Moreira, et. al.,2018) index, Tikrit Journal of Administration and Economics Sciences, Vol. (51), 2020.
37. Al-Ahmady Kossay K. and Sarah, Dhurgham Jasim; The usage of GIS for the devastated urban centers management and preservation of monument, study case: Nabi Jarjis region in Mosul, 1st international conference of geohertage and geotourism, Bagdad, 11-12 Nov., 2019.
38. Al-Ahmady Kossay K. and Sarah, Dhurgham Jasim; Planning the optimal debris removal in large urban centers using GIS/Study case: Souq Almosul in the Old City, Journal of basic education, Vol. 25, 2019.
39. Al-Ahmady Kossay K. and Aljammass, Yehya Riyadh; Effect of the internal recirculation and recycling ratios on the pollutants removal using Bardepho biological systems, International Journal for Environment and Global Changes, Vol7, Issue1, 2019.
40. Al-Ahmady Kossay K. and Aljammass, Yehya Riyadh; Effect of the solid retention time and recycling ratio on the nutrient removal using Bardepho biological systems, Alutroha Journal for Environmental Sciences, No.8, 2018.

41. Al-Ahmady Kossay K. and Sarah, Dhurgham Jasim ; Optimization of Midan debris collection routes using GIS technology , Alutroha Journal for Environmental Sciences, No.7, 2018.
42. Al-Ahmady Kossay K. and Farhan, Amina Fares; "Study of some pollutants of The Tigris River and its Environmental Effects In The City of Mosul"; Muthana Journal for Engineering and Technology, Vol. 6, No.1, 2018.
43. Al-Ahmady Kossay K. and Abed, Muthana Kheder; "Noise Isolation Capability for a Range of Construction Materials Used In Iraq", Tikrit Engineering Journal, Vol. 24, No.2, 2017.
44. Al-Ahmady Kossay K. and Yousif, Zahraa Mohammad; "Pretreatment of Quashi landfill leachate using aeration", Tikrit Engineering Journal, Vol. 24, No.1, 2017.
45. Al-Ahmady Kossay K. and Farhan, Amina Fares; " Environmental concerns of some pollutants of Tigris River In Mosul City"; The 3rd international conference on buildings, construction and environmental engineering, 2017.
46. Al-Ahmady Kossay K. and Obeed, Hussain Muhsin; " Assessment of Air Particulate Pollution in New Badoosh Cement Factory/ Iraq", Al-Rafidain Engineering Journal, Vol 23, No. 3, 2015.
47. Al-Ahmady Kossay K. and AL-Shrefy, Zena A.; "Effect of Organic, Nitrogenous and Phosphorus Loads on the Removal Efficiency of Organic and Nutrients Pollutants in Duckweed Based Wastewater Stabilization Ponds", Al-Rafidain Engineering Journal, Vol 23, No. 1, 2015.
48. Al-Ahmady Kossay K. and AL-Tae, Enas A.; Effect of Intermittent Feeding on the Performance of Plug Flow Activated Sludge System under Different Hydraulic Retention Times", Al-Rafidain Engineering Journal, Vol 23, No. 1, 2015.
49. Al-Ahmady Kossay K. and Al-Sultan, Ammar A; " Effect of Continuous and Intermittent Aeration Modes on the Efficiency of the Continuous Flow Extended Aeration Activated Sludge Systems"; Journal of Science and Technology, Vol. 32, No. 3, Part A, 2014.
50. Al-Ahmady Kossay K. and AL-Dabag, Enas Samir; "Effect of Recirculation Ratio, Organic Loading and Suspended Solids Loading on the Efficiency of the Trickling Filters With Plastic Media," Al-Rafidain Engineering Journal, Vol. 22, No. 3, 2014.
51. Al-Ahmady Kossay K. and Znad, Zainab A.; "The Optimum Conditions For Fluoride Removal From Drinking Water Using Nalgonda Method (Flocculation and Sedimentation), " Al-Rafidain Engineering Journal, Vol. 22, No. 2, 2014.
52. Al-Ahmady Kossay K. and AL-Abdaly, Abeer Talib Ali; "Effect of the hydraulic detention time and the volumetric ratio of anaerobic to aerobic zone on the efficiency of the upgraded activated sludge units using (Bardenpho) system" Al-Rafidain Engineering Journal, Vol. 22, No. 1, 2014.
53. Al-Ahmady Kossay K. and ALabdraba, Waleed M. and Aldulaimy Ahmed H.,; Effect of feed mode and Food Microorganisms ratio on efficiency of Plug-Flow activated sludge systems with plug-flow in removal of organic matter, phosphor PO<sub>4</sub> and nitrat NO<sub>3</sub> " Journal of Environmental Studies, Vol. 12, 2013.
54. Al-Ahmady Kossay K. and AL-Shrefy, Zena A.; "Effect of Hydraulic Detention Time and water Temperature on the Removal Efficiency of Organic and Nutrients Pollutants in Duckweed Based Stabilization Ponds", The second engineering scientific conference, Nov. 19-21, 2013, Mosul, Iraq.
55. Al-Ahmady Kossay K. and AL-Dabag, Enas Samir; "Effect of Nitrogen and Phosphorus Loading and Recirculating Ratio on the Nutrient Removal Efficiency of Plastic Media Trickling Filters", The second engineering scientific conference, Nov. 19-21, 2013, Mosul, Iraq.

56. Al-Ahmady Kossay K. and Ismaeel, Hanan Hage; "Effect of Using Anaerobic Selectors on the Performance of Continuous Flow Activated Sludge Systems", Al-Rafidain Engineering Journal, Vol. 21, No. 6, 2013.
57. Al-Ahmady Kossay K. and AL-Shrefy, Zena A.; " Effect of Hydraulic Detention Time and water Temperature on the Removal Efficiency of Organic and Nutrients Pollutants In Duckweed Based Wastewater Stabilization Ponds ", Al-Rafidain Engineering Journal, Vol. 21, No. 5, 2013.
58. Al-Ahmady Kossay K. and Ghanim Mohamad S.; "Performance comparison of activated sludge systems at mesophilic and thermophilic modes in treating dairy wastewater, Journal of Science and Technology, Vol. 31, No. 2, 2013.
59. Al-Ahmady Kossay K.; Stevens Kevin and Atkinson Sam; "Effects of Hydraulic Detention Time, Water Depth and Duration of Operation on Nitrogen and Phosphorus Removal in a Flow-Through Duckweed Bioremediation System", Journal of Environmental Engineering, ASCE, Vol. 139, No.2, 2013.
60. Al-Ahmady Kossay K.; " The comparison between two of the activated sludge systems; continuous flow and sequences batch reactor in the effluent quality and sludge properties" Journal of Duhok University, Vol. 15, No. 1, 2012.
61. Al-Ahmady Kossay K. and Alhashemi, Zena F.; "Effect of Type of wastewater on the Oxygen Uptake Rate in Batch Reactors" Journal of Duhok University, Vol. 15, No. 1, 2012.
62. Al-Ahmady Kossay K. and Younis Rua'a M.; "The Use of Dry Anaerobic Compositing technology for Treating of municipal solid wastes" Al-Rafidain Engineering Journal, Vol. 20, No. 2, 2012.
63. Al-Ahmady Kossay K.; "Calculating and Modeling of an Indoor Water Consumption Factor in Mosul City, Iraq" Journal of Environmental Studies, Vol. 6, No. 5, 2011.
64. Al-Ahmady Kossay K.; "Mathematical Model for Calculating Oxygen Mass Transfer Coefficient in Diffused Air Systems" Al-Rafidain Engineering Journal, Vol. 19, No. 4, 2011.
65. Al-Ahmady Kossay K. and Al-Rahmani Nadeia A.; "Comparison Efficiency for Using the One and Two Stages Anaerobic Biological Filters in Treating Domestic Greywater, Al-Rafidain Engineering Journal, Vol. 19, No. 5, 2011.
66. Al-Ahmady Kossay K. and Shihab Ahmad Y.; "Integrated Fixed Film Activated Sludge Systems For Upgrading the Hydraulic Capacity and Settling Characteristic of Activated Sludge Processes" Tikrit Engineering Journal, Vol. 18, No. 1, 2011.
67. Al-Ahmady Kossay K.; and Hamad A.M; "Analysis and Control of Noise from Portable Generator", 1st Sientific Conference of Environmental Pollution Control Research Center, June 5-6, 2007.
68. Al-Ahmady Kossay K.; Al-Anaz L. and Al-Tamer M.; "Analysis and Assessment of Noise Pollution in Libraries", 1st Sientific Conference of Environmental Pollution Control Research Center, June 5-6, 2007.
69. Al-Ahmady Kossay K.; " oxygen transfer performance on subsurface aeartion systems", Al-Rafidain Engineering Journal, Vol. (14), No. (3), 2006.
70. Al-Ahmady Kossay K.; "Study of the nature of industrial effluent from Hammam Al-Alil cement factory and evaluate its reuse ability", Al-Rafidain Engineering Journal, Vol. (14), 2006.
71. Al-Ahmady Kossay K.; "Analysis of oxygen transfer performance on subsurface aeartion systems", International journal of environmental reasearch and public health, Vol (3), No.(3), 2006.
72. Al-Ahmady Kossay K.; "Effect of airflow rate and submergence of diffusers on oxygen transfer



- capacity of diffused air aeration systems", Al-Rafidain Engineering Journal, Vol. (14), No. (3), 2006.
73. Al-Ahmady Kossay K.; "Effect of organic loading on rotating biological contactor efficiency", International journal of environmental research and public health, Vol (2), No.(3), 2005.
  74. Al-Ahmady Kossay K. and, feafanov U. A.; "Development of the rotating biological contactor systems", 61 - scientific conference of the Saint Petersburg state university of architecture and civil engineering, Saint Petersburg, 2004.
  75. Al-Ahmady Kossay K. and, feafanov U. A.; "Development of mathematical model for rotating biological contactor systems", 60 - scientific conference of the Saint Petersburg state university of architecture and civil engineering, Saint Petersburg, 2003.
  76. Al-Ahmady Kossay K. and, feafanov U. A.; "Perfecting the wastewater treatment process in the rotating biological systems", international scientific-practical conference (Reconstruction of Saint Petersburg - 2003), Saint Petersburg, 2003.
  77. Al-Ahmady Kossay K. and, feafanov U. A.; "Treatment of municipal wastewater using rotating contactors", international scientific-practical conference (Reconstruction of Saint Petersburg), Saint Petersburg, 2003.
  78. Al-Ahmady Kossay K and, feafanov U. A.; "Oxygen transfer efficiency of rotating biological contactor systems", 59- scientific conference of the Saint Petersburg state university of architecture and civil engineering, Saint Petersburg, 2002.
  79. Al-Ahmady Kossay K. and, feafanov U. A.; "Reliability of the wastewater treatment at rotating biological contactors", 5- international scientific conference of the Saint Petersburg state university of architecture and civil engineering, Saint Petersburg, 2002.
  80. Al-Ahmady Kossay K.; "treatment of wastewater in Iraq", 59- scientific conference of the Saint Petersburg state university of architecture and civil engineering, Saint Petersburg, 2001.
  81. Al-Ahmady, Kossay K. and Kassab Bashi, N.Y.; "Utilization of Oxidation Ditch for Treating of industrial effluent", Proceedings of 1st Irrigation Conference, Baghdad, Iraq, 1996.
  82. Al-Ahmady, Kossay K. and Kassab Bashi, N.Y.; "Performance efficiency of oxidation ditch with interchannel clarification unit that treating dairy wastewater", Al-Rafidain Engineering Journal, Vol. 4, No.3, 1996.

#### **Authored Books**

1. Social Responsibility and Environmental Assessment: An Approach to Meeting the Requirements of the Green University, 1<sup>st</sup> edition, 2024.
2. Environmental Leadership: An Introduction to Solid Waste Management, 1<sup>st</sup> edition, 2023.

#### **Some of the conferences that had been attended**

1. International conference for "Building Academic Research Capacity", Feb 3-5, 2014, Erbil, Iraq.
2. The first conference for Tigris Pollution Control, Mar. 24, 2013, Mosul, Iraq.
3. International conference for Modern Teaching Methodology and Excellence in University Teaching, Jan 28-30, 2013, Erbil, Iraq.
4. International conference for Engineering Collaboration in Arab Countries, Jan 13-16, Cairo, Egypt.
5. Expanding Academic Collaboration and Institutional Linkages between the United States and Iraq, June 27-29, 2012, Erbil, Iraq.
6. Standards of Quality Assurance and Accreditation in Higher Education, Jan 29-31, 2012, Erbil, Iraq.

7. 2<sup>nd</sup> Scientific conference of environmental pollution and control center, Nov. 28-29, 2011, Mosul, Iraq.
8. Models and Trends in Contemporary Higher Education, June 22-24, 2011, Erbil, Iraq.
9. Regional Water Quality and Green Infrastructure Conference, May 13-14, 2010, Dallas, Texas, USA.
10. International conference of "Water Ways 2010 and Fluid Frontier" a conference of Water, Arts, and Our Environment, March 3-5, 2010. Denton, Texas, USA.
11. Constructed and Natural Wetlands in Urban Landscape, Society of Wetlands Scientists, South Central Chapter Fall Meeting, October 22-24, 2009, Denton, Texas, USA.
12. 1<sup>st</sup>. Scientific Environmental Conference of the College of Environmental Sciences and Technologies, March 30-31, 2009, Mosul, Iraq.
13. 1<sup>st</sup> Scientific Conference of Environmental Pollution Control Research Center, June 5-6, Iraq, 2007.
14. Leadership for Renewable Energy in the Middle East and North Africa - Advancing Renewable Energy For Desalination; Organized by: United Nation / International Leadership Institute (UNU-ILI), July 24-25, 2006, Amman, Jordan.
15. International Scientific Seminar in Advanced Technology 2 - Clean water in Iraq, Water Purification and environmental remediation; Organized by: US Civilian Research and Development Foundation (USA CRDF) , June 24-29, 2006, Amman, Jordan.
16. International Conference on Health and the Environment in Iraq; Organized by: Stony Brook University, New York, USA, September 20-22, 2005, Amman, Jordan.
17. The Third International Preparatory Forum to Engage Iraqi's Science and Technology Community in Developing Their Country, September 18-20, 2005, Amman, Jordan.
18. The Second International Preparatory Forum to Engage Iraqi's Science and Technology Community in Developing Their Country, May 16-18, 2005, Amman, Jordan.
19. First International Workshop on Grey Water Reuse, May 2-4, 2005, Amman, Jordan.
20. Water Environmental Federation Technical Exhibition and Conference, WEFTEC.04, October 2-6, 2004, New Orleans, LA, USA.
21. First International Symposium on Recent Advances in Environmental Health and Research, September 19-22, 2004, Jackson, Mississippi, USA.
22. 61- Scientist and Engineering Conference of Saint Petersburg state university of architecture and civil engineering, February 3-5, 2004, Saint Petersburg, Russia.
23. International Scientific-Practical Conference (Reconstruction of Saint Petersburg), March 2003, Saint Petersburg, Russia.
24. 60- Scientist and Engineering Conference of Saint Petersburg State University of Architecture and Civil Engineering, January 28 -31, 2003, Saint Petersburg, Russia.
25. 59- Scientist and Engineering Conference of Saint Petersburg State University of Architecture and Civil Engineering, January 28 -31, 2002, Saint Petersburg, Russia.
26. 5- International Scientific Conference of Saint Petersburg State University of Architecture and Civil Engineering, May 18-20, 2002, Saint Petersburg, Russia.
27. 58- Scientist and Engineering Conference of Saint Petersburg State University of Architecture and Civil Engineering, January 28 -31, 2001, Saint Petersburg, Russia.
28. 1<sup>st</sup>. International Irrigation Conference, 28-30 June 1996, Baghdad, Iraq.

### **Engineering experience works**

1. Prepare more than (200) environmental impact studies for diverse projects and industries.
2. Rehabilitation of the Shoraw wastewater treatment plant in Kirkuk, 2015.
3. Design of the Textile factory wastewater treatment plants in Mosul city, 2014
4. Design for the wastewater treatment plants of t Kayara general hospital, 2014.
5. Design of Al- Jazeera water treatment plant, 2014.
6. Design of the wastewater treatment plants for the cities of: Bartella, Rabee'a, Hetra, Debaka, and Baaj 2011-2013.
7. Design of Al-Sagerchi and Kamal tannery wastewater treatment plants in Mosul and Duhok city, 2010.
8. Design of the storm water major pumping station in Mosul city, 2008.
9. Design of the wastewater treatment plants of the Al-Salam hospital in Mosul city, 2008.
10. Design of the wastewater treatment plants of the Ibn Alatheer hospital in Mosul city, 2008.
11. Design of the wastewater treatment plants of the Al-Shef'a hospital in Mosul city, 2008.
12. Design for the wastewater treatment plants of the Al-Khans'a hospital in Mosul city, 2008.
13. Design for the wastewater treatment plants of the Al-Mosul hospital in Mosul city, 2008.
14. Design of the water treatment plant for the North Oil Company, 2007.
15. Design of the water supply network for the North Oil Company, 2007.
16. Design of the water treatment intake in the dam of Bakhma, 2007.
17. Design of water hammer system of water supply network in the dam of Bakhma, 2007.
18. Design of the industrial wastewater treatment plant on the Textile in Mosul city, 2006.
19. Design of the wastewater recycling systems in the Hammam Alalil cement factories, 2005.
20. Design of the wastewater recycling systems in the Badoosh cement factories, 2005.
21. rehabilitation of the wastewater treatment plant of Ninevah International hotel; 2004.
22. Design of industrial wastewater treatment plants for (4) soft drinking factories in Mosul city, 2004.
23. Design of wastewater treatment plant for (7) poultry slaughterhouse in Mosul city, 2004.
24. rehabilitation of the wastewater treatment plant for Al-Salam general hospital, 1999.
25. Design of wastewater treatment plants for (3) food industries in Mosul city, 1999.
26. Design of water treatment intake for Biji electrical plant, 1999.
27. Design of industrial wastewater treatment plant for Nineveh Company, 1999.
28. Design of the wastewater treatment plant of Sameraa Drug Factories, 1998.
29. Rehabilitation of the wastewater treatment plant on the Mosul Dam, 1998.
30. Design of wastewater treatment plant for Nineveh Drug factory, 1997.

### **Membership of Scientific Societies**

1. Society of Wetlands Scientists, USA.
2. Iraqi Engineers Union, Iraq.
3. Federation of Arab Engineers, Egypt.
4. Arab Union for the Protection of Intellectual Property Rights, Egypt.
5. Jordanian Environmental Society, Jordan.

### **Awards**

1. I have received more than (150) letters of appreciation and recognition.
2. ASCE outstanding reviewer, American Society of Civil Engineers (ASCE), USA, 2018.
3. Grant provided by the International Institute of Education (IIE) – Scholar Rescue Fund (SRF) Program, New York, USA, July 2014.
4. Grant provided by the International Institute of Education (IIE) – Scholar Rescue Fund (SRF) Program, New York, USA, July 2010.
5. Grant provided by the International Institute of Education (IIE) – Scholar Rescue Fund (SRF) Program, New York, USA, July 2008
6. Grant provided by the International Foundation for Science (IFS), Stockholm, Sweden, November – 2006.
7. Grant provided by the Mississippi Consortium for International Development (MCID)", Jackson MS, USA, September -2004.

### **Scientific Advisory Committee**

1. Consultant of the Directorate of environment of Kirkuk, from 2015 to 2017.
2. Consultant of the Directorate of environment of Duhok, from 2010 2018.
3. Consultant of the Directorate of sewerage of Kirkuk, 2013 – 2017.
4. Consultant of the Directorate of sewerage of Nineveh, 2009 – 2014.
5. Consultant of Nineveh Governorate, 2012 – 2013.
6. Consultant of the Cement North Company, 2005.
7. Consultant of the Sommer company for construction and investment, 2004.