C.V

Name: Basim Hussein Khudhair Al-Obaidi

Date of Birth: Iraq- Baghdad 29/6/1963

Religion: Muslim

Martial statues: Married

No. of children: Four

Specialization: Sanitary and Environment Engineering

Position: Professor as faculty member in Civil Engineering Department-College of Engineering/University of Baghdad

Scientific Degree: Ph.D. Degree in Sanitary and Environment Engineering

Work Address: University of Baghdad/College of Engineering-Civil Engineering Department

Passport No.: A10583211 **Date of Issue:** 19-October-2015

Expiry Date: 17-October-2023

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Research Gate Link: https://www.researchgate.net/profile/Basim_Khudhair, Google Scholar Link: https://scholar.google.com/citations?user=0ce4HpYAAAAJ&hl=en, Publons Link: https://publons.com/researcher/1623055/basim-hussein-khudhair-al-obaidi/ , Orcid Link http://orcid.org/0000-0001-5725-9249,
University of Baghdad website: http://en.uobaghdad.edu.iq/
Baghdad/ Al-Jadriyah- Al-Jadriyah compus
Civil Engineering Deparment Website: http://coeng.uobaghdad.edu.iq/?p=28943

First, Scientific Certification:

Degree science	University	College	Date
B.Sc.	University of Technology	Building & Construction Engineering Department	1985-1986
M.Sc.	University of Baghdad	Collage Engineering/ Civil Department **M.Sc. Thesis** "Evaluation of firefighting using water systems for buildings in Baghdad city".	1991-1992
Ph.D.	University of Technology	Building & Construction Engineering Department **Ph.D. Thesis** "Algae Removal in Water Supply Scheme".	2005-2006
Any other			

Second, Career:

No.	Career	Workplace	From -To
1	Engineer officer/Concrete designer, civil site engineer	Ministry of Defense / Directorate of Military Works-Division designs	12/10/1986-1992
2	Chief Engineering/ Sanitary Designer Engineer	Iraqi Minister of Construction and Housing / Construction Engineer Office-Sanitary Design Unit	1992-2006
3	Factuality Member-Lecturer	Iraq, Baghdad University / Faculty of Engineering Department of Environment	2006-2007
4	Factuality Member- Associate Professor	Sudan, Nile Valley University / Faculty of Engineering and Technology-Civil Department	1/10/2007-1/10/2008
5	Factuality Member-Lecturer	Iraq, Baghdad University / Faculty of Engineering Department of Civil Engineering.	11/1/2009-27/2/2013
6	Factuality Member-Assistant Professor	Iraq, Baghdad University / Faculty of Engineering Department of Civil Engineering.	27/2/2013-2/7/2021
7	Factuality Member- Professor	Iraq, Baghdad University / Faculty of Engineering Department of Civil Engineering.	2/7/2021-Until now

Third, University Teaching.

No.	University	The (Institute / College)	From -To
1	Baghdad University	College of Engineering/Department of Environment	2006-2007
2	Sudan / State University of River Nile and the Nile Valley	College of Engineering and Technology-Civil Department	1/10/2007-1/10/2008
3	Baghdad University	College of Engineering/Civil Department	11/1/2009-Until now
4	Uruk University	College of Engineering/Civil Department	2015-2016

Fourth, Courses Which You Teach:

No.	Department	Subject	Year
1	Baghdad University / Faculty of Engineering Department of Environment	Global Environmental Problems	2006-2007
2	Nile Valley University / Faculty of Engineering and Technology Civil Department	Fluid Mechanics 1 & 2, Hydraulics 1 & 2, Hydrology, Sanitary Engineering	1/10/2007-1/10/2008
3	Baghdad University / College of Engineering-Architecture Department	Plumbing	2010-2012
4	Uruk University / College of Engineering-Civil Department	Fluid Mechanics	2015-2016
5	Baghdad University / College of Engineering-Civil department	Hydrological, fluid mechanics, statistics, sanitary and environmental engineering for under graduate and Advanced Statistics, treatment of industrial waste treatment, advanced water treatment plant design, and advanced wastewater treatment plant design for Graduate M.Sc. Studies.	11/1/2009-Until now

Fifth, Thesis which was supervised by :

No.	Thesis Title	Department	Year
1	**Ph.D. Dissertation :** Development of Mathematical and Physical Models to Simulate Dam Break: Case Study Blue Nile River–Roseires Dam	Sudan-Omdurman Islamic University-College of Engineering Sciences and civil department, **Ghassan khalaf khalid**	2014
2	**Ph.D. Dissertation:** Building foundation behavior and soil properties impacts due to groundwater dewatering in Baghdad City-Iraq	Baghdad University / College of Engineering-Civil department, **Ammar A Shiekha**	2015
3	**M.Sc. Thesis:** Deterioration Model for Sewer Network in Baghdad City	Baghdad University / College of Engineering-Civil department, **Rehab Karim**	15-March 2018

4	**M.Sc. Thesis:** Comparison Study for Nutrient Removal in Sequencing Batch Reactor and Activated Sludge in Al-Rustamiya Sewage Treatment Plant-Baghdad City	Baghdad University / College of Engineering-Civil department, **Shatha Abdulrazzak Jasim**	29-March 2018
5	**M.Sc. Thesis:** Sewage Flow Assessment and Sediment Model Simulation in Trunk Sewer	Baghdad University / College of Engineering-Civil department- **Rami Raad Ahmed**	10-March 2019
6	**M.Sc. Thesis:** Evaluating the effect of controlling Zeta potential on the reduction of Reverse Osmosis membrane fouling	Baghdad University / College of Engineering-Civil department- **Sabreen Hayder Abbas**	17-June 2019
7	**M.Sc. Thesis:** Evaluation of Biological Trickling filter performance for organic and nutrient removal from treating Municipal Wastewater Using Selected Local Filter	Baghdad University / College of Engineering-Civil department- **Saad Naif Awad**	8- June 2020
8	**M.Sc. Thesis:** Design evaluation and Operational Assessment of Combined Sewage Pump Station Under Real Conditions	Baghdad University / College of Engineering-Civil department- **Anfal majid salal**	26- October 2020
9	**M.Sc. Thesis:** Design Assessment and Performance Investigation of Moving Bed Biofilm Reactor Process for Biological Organic and Nutrient Removal from Municipal Wastewater	Baghdad University / College of Engineering-Civil department-**Saad uffi gbber**	15-June-2021
10	**M.Sc. Thesis:** Optimal Design and Operation Performance of Automation Bioshaft Technology in Wastewater Treatment Based On Advanced Returned Biomass Bio-Reactors	Baghdad University / College of Engineering-Civil department-**Rana Hassan Naji**	27-July-2021
11	**M.Sc. Thesis:** Performance Assessment of Al- Rustamiya Sewage Treatment Plant by Monitoring Effluent Quality Using Remote Sensing and GIS Techniques	Baghdad University / College of Engineering-Civil department-**Rusol Mohammed Mohsin**	
12	**M.Sc. Thesis:** Design and operational evaluation of the liquid petroleum gases system in multi-story residential buildings	Baghdad University / College of Engineering-Civil department- **Amna Amer**	
13	**M.Sc. Thesis:** Assessment of Firefighting Systems Design and Fire Safety Risk Model for Several Different Buildings	Baghdad University / College of Engineering-Civil department- **Waleed Ahmed Rezaij**	

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Sixth, Conferences which you participated:

No.	Conferences Title	Year	Place	Type of
1	Administrative Leadership Course	10/2/2001-12/2/2001	National Center for Planning and Administrative Development Authority	Participant
2	Infrastructure Management	February 2011	Baghdad Municipality	Participant
3	Operational problems for wastewater treatment plants in the city of Baghdad	2011	Baghdad University / College of Engineering-Civil department	Lecturer
4	Methods of sewage treatment-tertiary treatment	January 2011	Baghdad Municipality	Participant
5	Sewage treatment under modern technological German (SBR)	May 2011	German team of specialist business designs treatment Plants-Sheraton Hotel	Participant
6	Water installation in building code	20/12/2011	Consulting Engineering Office of the University of Babylon in the engineering consultancy center hall Baghdad	Participant
7	Rehabilitation carrier sewage line techniques (Zeppelin) between stations and granular Rustumiya 14850 meter	15/9/2012	Company (GROTTO) in collaboration with the German Advisory Office (IBM) in the Municipality of Baghdad	Participant

8	Second international conference on engineering science	26-27 March 2018	University of Karbala	Participant & researcher

Seventh, Scientific Activities:

Within the College	Outside the College
Scientific reviewer for many journals as a Journal of Engineering/ university of Baghdad, and Journal of the Association of Arab Universities for Engineering Studies and Researches.	Scientific reviewer for many journals as a Journal of Engineering/ university of Babylon, Diyala and Qadisiyah.
Published many scientific researches in the field of sanitary engineering in local and international accredited journals.	Scientific reviewer for many Ph.D. and M.Sc. thesis for Iraqi universities.
Scientific supervision on PhD and M.Sc. thesis.	

Eighth, Research Projects in The Felid of Specialization to The Environment and Society or the Development of Education:

No.	Research Title	Place of Publication	Year
1	Study in Quality and Quantity of Ground Water in Al-Anbar Province for Human and Agriculture use	Journal of Al-Nahrain University-Science, Vol. 14, No. 1, pp. 8-16, March -2011	2011
2	Assessment of Water Quality Index and Water Suitability of the Tigris River for drinking water within Baghdad City, Iraq	Journal of Engineering/ university of Baghdad, Vol. 19, No. 6, pp. 764-744, June 2013.	2013
3	Water Hammer Arresters; Review Studies and Practical Experiments for Alternatives	Journal of Engineering/ university of Baghdad, Vol. 19, No. 7, pp. 83-97, July 2013.	2013

4	Application of Water Quality Index and Water Suitability for Drinking of the Euphrates River within Al-Anbar Province, Iraq.	Journal of Engineering/ university of Baghdad, Vol. 19, No. 12, pp. 1619-1633, December 2013.	2013
5	Correlating BOD_5 and COD of Sewage in Wastewater Treatment Plants; Case study Al- Diwaniyah WWTP in Iraq	American university of Sharjah (AUS) "Second International Conference on Sustainable Systems and the Environmental (ISSE14)" February 12-13, 2014/ Sharjah (AUE), pp. 142-146	2014
6	Assessment Efficiency Evaluation of Al-Diwaniya Sewage Treatment Plant in Iraq	Journal of Engineering/ university of Baghdad, Vol. 20, No. 2, pp. 20-32, February 2014.	2014
7	Large Scale Field Physical Model Simulation of Roseires Dam-Break, Sudan	Journal of Water Resource and Hydraulic Engineering (JWRHE), Vol. 3, Iss. 2, pp. 48-56, June 2014.	2014
8	Inundation Map Development by Using HEC-RAS Hydraulic Simulation Modeling from Roseires to Khartoum Cities	Paripex-Indian Journal Of Research, Volume: 3 | Issue: 9 | September 2014, ISSN - 2250-1991, pp. 58-62.	2014
9	Evaluating water stability indices from water treatment plants in Baghdad city.	Journal of Water Resource and Protection, 2014, VOL. 6, NO. 14, 1344-1351. Scientific Research	2014
10	Virtual failure influence of Roseires dam on Khartoum city using HEC-RAS Hydraulic simulation modeling	Sudan University Of Science & Technology; SUST Journal of Engineering and Computer Science (JECS), Vol. 16, No. 3, pp. 15-23, March, 2015	2015
11	Calibration and verification of the hydraulic model for Blue Nile river from Roseires dam to Khartoum city	Journal of Engineering/ university of Baghdad, Vol. 21, No. 12, pp. 46-62, December 2015.	2015
12	Dewatering Effect on Virtual Settlement of Pile Foundation: Case Study in Bab Al-Mudham Area, Baghdad-Iraq	Journal of the Association of Arab Universities for Studies and Engineering Researches, Vol. 22, No. 2, pp. 153-154, 2015.	2015
13	Prediction of Raw Water Turbidity at the Intakes of the Water Treatment Plants along Tigris River in Baghdad, Iraq using Frequency Analysis	Journal of Engineering/ university of Baghdad, Vol. 22, No. 3, pp. 22-35, March 2016.	2016

14	Prediction of Ryznar Index for the treated water from WTPs on Al-Karakh side of Baghdad City using Artificial Neural Network (ANN) technique	Journal of Engineering/ university of Baghdad, Vol. 22, No. 5, pp. 1-10, May 2016.	2016
15	Prediction of Monthly Fluoride Content in Tigris River using SARIMA Model in R Software	Journal of Engineering/ university of Baghdad, Vol. 22, No. 8, pp. 75-85 August 2016.	2016
16	Comparative Modeling of Pavement Surface Texture Variables Using ANN and SPSS Software	International Journal of Transportation Engineering and Traffic System, IJTETS, Vol. 2: Issue 2, 2016	2016
17	Performance Evaluation of the Organic Matter Removal Efficiency in Wastewater Treatment Plants; Case study Al-Diwaniyah WWTP in Iraq	International Journal of Science and Research (IJSR), Volume 6 Issue 2, pp. 334-338, February 2017 **(Scopus Indexed)**	2017
18	Rigid trunk sewer deterioration prediction models using multiple discriminant and neural network models in Baghdad city, Iraq	Journal of Engineering/ university of Baghdad, Vol. 23, No. 8, pp. 70-83 August 2017.	2017
19	Performance evaluation of Sequencing Batch Reactor and Conventional Wastewater Treatment Plant based on Reliability assessment	Journal of Engineering/ University of Baghdad, Vol. 23, No. 11, pp. 105-120 November 2017 .	2017
20	Optimal Economic Design of Diversion Structures during Construction of a Dam by Particle Swarm Optimization	International Journal of Science and Research (IJSR), Volume 7 Issue 1, pp. 959-964, January 2018 **(Scopus Indexed).**	2018
21	Damage pattern scope prediction of well point dewatering on building foundation	2nd International Conference on Engineering Sciences/ university of Karbala 26-27 March 2018. IOP Conf. Series: Materials Science and Engineering 433 (2018) 012034. IOP Publishing.	2018
22	Water quality assessment and total dissolved solids prediction using artificial neural network in Al-Hawizeh marsh south of Iraq	Journal of Engineering/ University of Baghdad, Vol. 24, No. 4, pp. 147-156 April 2018.	2018
23	Prediction of Municipal Solid Waste Generation Models Using Artificial Neural Network in Baghdad city, Iraq	Journal of Engineering / University of Baghdad Vol. 24, No. 5, pp. 113-123 May 2018.	2018

24	Determining and Predicting the Water Demand Dynamic System Model Mapping Urban Crawling and Monitoring Using Remote Sensing Techniques and GIS.	Journal of Engineering / University of Baghdad Vol. 24, No. 6, pp. 103-113 June 2018.	2018
25	Performance assessment of biological treatment of sequencing batch reactor using artificial neural network technique.	International Journal of Civil Engineering and Technology (IJCIET), Volume 9, Issue 6, June 2018, pp. 1021–1028. **(Scopus Indexed)**	2018
26	Correlation between BOD_5 and COD for Al-Diwaniyah wastewater treatment plants to obtain biodegradability indices.	Pakistan journal of biotechnology, Vol. 15 (2) 423-427 (2018). **(SJR-Scimago Journal)**	2018
27	Slow sand filtration as a tertiary treatment for the secondary effluent from sewage treatment plant	Association of Arab Universities Journal of Engineering Sciences, Vol. 25, NO.3, pp. 169-179, August. 2018	2018
28	Effluent quality assessment of Al-Diwaniyah sewage treatment plant based on wastewater quality index	International Journal of Civil Engineering and Technology (IJCIET), Volume 9, Issue 10, October 2018, pp. 22–31. **(Scopus Indexed)**	2018
29	Artificial Neural Network Model for the Prediction of Groundwater Quality	Civil Engineering Journal (CEJ) Volume 4, Issue 12, December 2018, pp. 22–31. (**Clarivate analytics Indexed**)	2018
30	Optimum Operation Management Effect of Main Sewage Pumping Stations on Trunk Sewer Deterioration	Journal of Engineering Science and Technology (JESTEC), Volume 13, NO. 12, December 2018, pp. 4094 - 4103. (**Scopus Indexed**)	2018
31	Improvement of Domestic Wastewater Treated Effluent from Sequencing Batch Reactor Using Slow Sand Filtration	Association of Arab Universities Journal of Engineering Sciences, Volume 25, NO. 4, 23-December 2018, pp. 159-173.	2018
32	Prediction of Sediment Accumulation Model for Trunk Sewer Using Multiple Linear Regression and Neural Network Techniques	Civil Engineering Journal (CEJ) Volume 5, Issue 1, January 2019, pp. 82–92. (**Clarivate analytics Indexed**)	2019

33	Condition assessment and rehabilitation for trunk sewer deterioration based on Semi-Markov model	Association of Arab Universities Journal of Engineering Sciences, Volume 25, NO. 5, 10-January 2019, pp. 14-27.	2019
34	Condition Prediction Models of Deteriorated Trunk Sewer Using Multinomial Logistic Regression and Artificial Neural Network	International Journal of Civil Engineering and Technology (IJCIET), Volume 10, Issue 1, 31 Januory 2019, pp. 93-104. **(Scopus Indexed)**	2019
35	Hydraulic Analysis and Performance Evaluation of Combined Trunk Sewers: A Case Study of Baghdad City	Journal of Engineering / University of Baghdad, Vol. 25, No. 3, pp. 1-10 March 2019.	2019
36	River Water Salinity Impact on Drinking Water Treatment Plant Performance Using Artificial neural network	Journal of Engineering / University of Baghdad, Vol. 25, No. 8, pp. 149-159 August 2019.	2019
37	Influent Flow Rate Effect On Sewage Pump Station Performance Based On Organic And Sediment Loading	Journal of Engineering / University of Baghdad, Vol. 25, No. 9, pp. 1-11 September 2019.	2019
38	Water Quality Assessment And Total Dissolved Solids Prediction For Tigris River In Baghdad City Using Mathematical Models	Journal of Engineering Science and Technology (JESTEC), Volume 14, NO. 6, December 2019, pp. 3337-3346. (**Scopus Indexed + Clarivate analytics Indexed**) **Q2**	2019
39	Analysis Of Sedimentation In Trunk Sewer With Laboratory Investigation Of Sewage Sediment Characteristics In Baghdad City	Journal of Engineering Science and Technology (JESTEC), Volume 15, NO. 1, February 2020, pp. 355-363. (**Scopus Indexed + Clarivate analytics Indexed**) **Q2**	2020
40	Performance Evaluation of Trickling Filter and Extended Aeration of Wastewater Treatment Plants	Journal of Engineering / University of Baghdad, Vol. 26, No. 3, pp. 93-99 March 2020.	2020
41	Influence of A River Water Quality on The Efficiency of Water Treatment Using Artificial Neural Network	Journal of Engineering Science and Technology (JESTEC), Volume 15, NO. 4, August 2020, pp. 2610-2623. (**Scopus Indexed + Clarivate analytics Indexed**) **Q2**	2020

42	Water Quality Assessment and Sodium Adsorption Ratio Prediction of Tigris River Using Artificial Neural Network	Journal of Engineering Science and Technology (JESTEC), Volume 15, NO. 5, October 2020, pp. 3055-3066. (**Scopus Indexed + Clarivate analytics Indexed**) **Q2**	2020
43	Predicting Municipal Sewage Effluent Quality Index Using Mathematical Models In The Al-Rustamiya Sewage Treatment Plant	Journal of Engineering Science and Technology (JESTEC), Volume 15, NO. 6, December 2020, pp. 3571-3587. (**Scopus Indexed + Clarivate analytics Indexed**) **Q2analytics Indexed**) **Q2**	2020
44	Effluent quality assessment of sewage treatment plant using principal component analysis and cluster analysis	Journal of Engineering / University of Baghdad, Vol. 27, No. 4, pp. 79-95, April 2021.	2021
45	Assessment Of Municipal Wastewater Treatment Using Sequencing Batch Reactor Under Real Operation Conditions	Journal of Engineering Science and Technology (JESTEC), Volume 16, NO. 2, April 2021, pp. 1019-1029. (**Scopus Indexed + Clarivate analytics Indexed**) **Q2analytics Indexed**) **Q2**	2021
46	A Comparative Study of a Moving Bed Biofilm Reactor and Bio-shaft Technology for a Wastewater Treatment Process: A review	Journal of Engineering / University of Baghdad, Vol. 27, No. 6, pp. 47-58, June 2021.	2021
47	Operational assessment of biological wastewater treatment using advanced return-mass reactors based on principal component cluster analysis	Journal of Physics: Conference Series, 1895 (2021) 012037, 2nd International Conference for Civil Engineering Science (ICCES 2021), IOP Publishing, June 2021.	2021
48	Evaluating the efficiency of some wastewater treatment plants in Najaf Governorate	IOP Conference Series: Materials Science and Engineering, ISSN: 1757-8981, 1757-899X. It is our pleasure to invite you to attend the Iraqi Academics Syndicate International Conference for Pure and Applied Sciences (IICPS), Babylon Branch, Babylon, Iraq at 5-6 December 2020. The publication of the accepted paper will be provided by the end of April 2021. (**Scopus Indexed**), 1145 (2021) 012053, June 2021.	2021

49	Membrane Fouling Reduction for Reverse Osmosis System Using Zeta Rod	Journal of Engineering Science and Technology (JESTEC), Volume 16, NO. 3, June 2021, pp. 1951-1961. (**Scopus Indexed + Clarivate analytics Indexed**) **Q2analytics Indexed**) **Q2**	2021
	Evaluating the efficiency of some wastewater treatment plants in Najaf Governorate	Accaceptance in IOP Conference Series: Materials Science and Engineering, ISSN: 1757-8981, 1757-899X. It is our pleasure to invite you to attend the Iraqi Academics Syndicate International Conference for Pure and Applied Sciences (IICPS), Babylon Branch, Babylon, Iraq at 5-6 December 2020. The publication of the accepted paper will be provided by the end of April 2021. (**Scopus Indexed**)	2021
47	Operational assessment of biological wastewater treatment using advanced return-mass reactors based on principal component and cluster analysis	Accaceptance in 2nd International Conference of Civil Engineering Sciences ICCES-10-11 March 2021. University of Al-Qadisiyah /College of Engineering-Department of Civil Engineering & Department of Roads and Transportation Engineering. The conference proceeding will be published in the Journal of Material Sciences and Engineering: IOP Conference Series, which is indexed in the Scopus database. (**Scopus Indexed**)	2021
48	Dimensional Analysis Of Predicting The Removal Of Chemical Oxygen Demand From Domestic Wastewater Using Moving Bed Biofilm Reactor	1st International Conference on Advanced Research in Pure and Applied Science ICARPAS 2021, 24th-25th March 2021. College of Science, Al-Muthanna University, Iraq. (**Scopus Indexed**)	2021

49	Performance Evaluation of Al-Karkh Water Treatment Plant Using Model-driven and Data-Driven Models	Fifth International Scientific Conference on Environment and Sustainable Development "5ISCESD 2021", which will be held in Istanbul on June 2-3, 2021 as joint conference between University of Technology- Iraq and Gaziantep University-Turkey publication in the IOP Conference Series: Earth and Environmental Science (ISSN:1755-1307, E-ISSN:1755-1315). (**Scopus Indexed**)	2021
50	Effective quality control of a municipal wastewater treatment plant using Geographic information systems: A Review	Journal of Engineering / University of Baghdad, Vol. 27, No. 7, pp. 66-72, July 2021.	2021
51	Performance Evaluation of Al-Karkh Water Treatment Plant Using Model-driven and Data-Driven Models	IOP Conf. Series: Earth and Environmental Science 779 (2021) 012110, 5ISCESD 2021, IOP Publishing, July 2021, pp. 1-12,doi:10.1088/1755-1315/779/1/012110. Fifth International Scientific Conference on Environment and Sustainable Development (5th ISCESD 2021), University of Technology-Iraq Environment Research Center	2021
52	Evaluating the Efficiency of some Wastewater Treatment Plants in Najaf Governorate	IOP Conference Series: Materials Science and Engineering, ISSN: 1757-8981, 1757-899X IOP Conference Series: Materials Science and Engineering, IOP Conf. Ser.: Mater. Sci. Eng. 1145 012053, August 2021	2021
53	Operational assessment of biological wastewater treatment using advanced return-mass reactors based on principal component cluster analysis	2nd International Conference for Civil Engineering Science (ICCES 2021), IOP Publishing, Journal of Physics: Conference Series, 1895 (2021) 012037,	

	Operational Efficiency assessment of the sewage pumping station using the performance Index under real conditions	Under reviewing in Journal of Engineering Science and Technology (JESTEC) (Scopus Indexed + Clarivate analytics Indexed) Q2	
	Predicting of Effluent Biochemical Oxygen Demand from Bio-filter WWTP Using Artificial Neural Network and Multilinear Regression	Under reviewing in **Kuwait Journal of Science (KJS)-(Scopus Indexed) Q1**	
	Water Quality Deterioration Assessment of Tigris River Using Environmental and Statistical Indicators within Baghdad City	Under reviewing in Arabian Journal of Geosciences -(Scopus Indexed)	2020
	Optimal operation model of sewage pump station under real operation conditions using MATLAB Simulink control system	Under reviewing in Journal of Green engineering -(**Scopus Indexed**)	2020
	Influence of municipal sewage effluent treatability on Surface Water Quality Assessment based on Nemerow Pollution Index using an Artificial Neural Network		

	Laboratory Bench Scale Roughing Filter Assessment for Raw Water Quality Improvement Under Different Turbidities Using Local Materials		
	Performance Evaluation of Residual Sludge Properties from Water Treatment Plant **Based On Experimental Work**		
	Morphology Influence of Sawa Lake on Surface Water Quality Assessment Using Nemerow Pollution Index		
	Dimensional analysis of predicting the removal of chemical oxygen demand from domestic wastewater using moving bed biofilm reactor	بحث مؤتمر سعد عوفي	
	A comparative study of a moving bed biofilm reactor and bio-shaft technology for a wastewater treatment process: A review	Under reviewing in Journal of Engineering / University of Baghdad, Vol. ????, No. ???, pp. ??-?? ??? 2021.	2021
	Effective quality control of a municipal wastewater treatment plant using Geographic information systems: A Review	Under reviewing in Journal of Engineering / University of Baghdad, Vol. ????, No. ???, pp. ??-?? ??? 2021.	2021

	Treatability influence of municipal sewage effluent on surface water quality assessment based on Nemerow pollution index using an artificial neural network	Under reviewing in	2021

Ninth, Membership:

- Iraqi engineer's union
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Tenth, Awards and Certificates of Appreciation:

No.	Name of Awards and Certificates	Donor	Year
1	Acknowledgements	Basra University-College of Engineering Dean's Office	2014
2	Acknowledgements	Baghdad University / Faculty of Engineering Dean's Office	2014
3	Acknowledgements	Baghdad University / Assistant Rector for Academic Affairs	2014
4	Acknowledgements	Chairman of the University of Baghdad	2014
5	Acknowledgements	University of Technology / Department of Building and Construction Engineering	2015
6	Acknowledgements	Babylon University / Faculty of Engineering	2016
7	Acknowledgements	Baghdad University / Faculty of Engineering Dean's Office	2016

Eleventh, Scientific literature:

No.	Scientific Literature Title	Year of The Publication
1		
2		
3		

Twelfth, languages:

- ✓ Arabic
- ✓ English

Thirteen: Previous experience and skills in environmental and sanitary engineering: including design, checking design and construction of water and wastewater networks.

1. Sanitary design of many government projects including design and construction of water and wastewater networks within the responsibility of the Department of Construction Engineering design.
2. Sanitary design of Al-Wasti hospital for cosmetic surgery, baghdad-Iraq.
3. Check the hydraulic design and rehabitation of all units of Kirkuk water treatment plant including water transition pipe dimeter 500-1000 mm.
4. Sanitary design of the new hospital in Fallujah with engineering consultancy bureau at the University of Technology.
5. Sanitary design of buildings, administrative and specialized station Hilla and Karbala electricity with Lion of Babylon Company.
6. Sanitary design of General Administration building (Al-Bu Juma) with the Al-Iqara Company and the Bank of the Middle East.
7. Sanitary design of Al-Abdaa Hotel with the Al-Iqara Company and the Bank of the Middle East.
8. Sanitary check design of Maysan hotel with Cork Construction Company of tourism, industrial and commercial.
9. Sanitary design of the Jamela Bank of the Middle East.
10. Sanitary design of Al-Sewera and Al-Hay wastewater treatment plants with Dejla Engineering Consultancy bureau including trank sewer in/outside of plant.
11. Sanitary checking design of the new building design Sulaimaniyah University in the province of Sulaymaniyah with the Advisory Board of the University and the Turkish company (TEPE).
12. Sanitary design of refrigerated warehouses in Erbil with Al-Hafiz Company.
13. Sanitary check design of the Rusafa water six tanks design including water transition pipe dimeter 500-1000 mm in/outside of plants.
14. Sanitary check design of the presidency guesthouse in Al-Jadiriyah/Baghdad.
15. Sanitary design of the Oil Products Distribution Company buildings/Babylon branch.
16. Sanitary design of the Al-Dakhal Bridge in Sadr City with the Amant of Baghdad.
17. Sanitary check design of the Najaf wastewater treatment plant/second stage with ENTA Turkish company.
18. Sanitary design of the al-Sadr shrine buildings in Al-Najaf.
19. Sanitary check design of the medical gases networks in Al-Khala hospital.
20. Sanitary design of the afforestation project-Baghdad with the Municipality of Baghdad.
21. Sanitary design of the research and development center of oil/Oil Ministry.
22. Sanitary check design of the SBR WWTP of Al-Zewet/Maysan.

23. Sanitary design of the water intake for Al- Samawa and Al-Mansuriyah power stations including water transition pipe dimeter 500-1000 mm.
24. Sanitary design of the Ministry of Transport-transport company building.
25. Sanitary design of the Al-Nahadh and Bab-Al-Mathama garages/Ministry of Transportation.
26. Sanitary design of the Al- Diwaniyah and Samarra garages/Ministry of Transportation.
27. Sanitary design of the water intake for Baiji power station including water transition pipe dimeter 400 & 500mm.
28. Sanitary design of the Karbala garages/Ministry of Transportation.
29. Sanitary design of the Al-Mutanabi Garage garage in Wasit /Ministry of Transportation.
30. Sanitary design of the Central Agency for Standardization and Quality Control in Basra.
31. Sanitary check design of the Rehana residential complex.
32. Sanitary design of the Square 83 Bridge in Sadr City with the Amant of Baghdad.
33. Sanitary design of the Oil Products Distribution Company buildings/ Samawa branch.
34. Sanitary design of the site networks for flowers Baghdad residential complex.
35. Sanitary design of the sewage and rainwater site systems in the refinery complex of the general company for oil products in Baghdad.
36. Technical supervision of the gateway Iraq residential compound in Baghdad.
37. Check the hydraulic design of the industrial wastewater treatment plant starch, dextrin in the Hashemite with Qadu Contracting Company.
38. Sanitary check design of the sewage treatment package with the Al-Fars company in Baghdad.
39. Sanitary design of the Imam Kadhim University of Science Islamic in Maysan.
40. Check the code for sanitary installations in buildings by the Office of Scientific Consulting / University of Technology.
41. Sanitary check design of the odor removal for sewage pumping moderation in the region of southern city of Amarah.
42. Sanitary design of the Salman Al-Muhammadi shrine in Al-Madaian city.
43. Sanitary check design of the Securities Commission in cooperation with the Department of Construction Engineering in Baghdad.
44. Member of the consultant board in cooperation in the Faculty of Engineering, University of Baghdad with the Minister of Municipalities and Public Works including all WWTP process including tanks ans transition sewage pipes from 500-1600 mm.
45. Sanitary check design of the Al-Hindia/Karbala wastewater network including process and tank design.
46. Sanitary check design of the Al-Numaniyah sewage networks and pumping stations.
47. Sanitary check design (hydraulic and process) of the Al-Basra sewage treatment Plant-Phase IV.
48. Sanitary check design (hydraulic and process) of the Al-Zubair sewage treatment plant.
49. Sanitary check design (hydraulic and process) of the Al-Diwaniyah sewage treatment plant.
50. Sanitary design of the water and sanitation systems and fire-fighting from diameter 150-250 mm for Meridian hotel in Baghdad with Al-Benayan Company.
51. Sanitary design of the Southwest duplicate trunk sewer from diameter 1000-2000 mm with Al-Amoud Contracting Company.
52. Sanitary design of the building autism specialist clinic in Karbala (12 floor).
53. Sanitary design of the building housing doctors Building Specialist hospital in Karbala (12 floor).
54. Sanitary check design (hydraulic and process) of the building extensions Council of Ministers with CAP Company.

55. Sanitary check design (hydraulic and process) of the 400-bed hospital in Baquba, Diwaniyah and Baghdad with the Australian company (ACA ALLIANCE).
56. Sanitary design of the child city in Al-Zawraa with the Ministry of Culture.
57. Sanitary check design (hydraulic and process) of the buildings in Baghdad, Iraqi University with Consultin Bureau Iraqi Engineers Union.
58. Sanitary design of the Cultural Center design in Kirkuk with the Dijlah Consulting Engineers
59. Sanitary check design (hydraulic and process) of the project the development of the shrine of Imam Ali with the Iranian Beheshti University.
60. Sanitary design of the raw water pumping project design (and a tube station and reservoirs assembly) with 1000-1200 mm of Daquq to watre treatment plant Tuz- Khurmato with Enma-Group Company.
61. Sanitary design of the Middle East bank building- Basra branch.
62. Sanitary check design (hydraulic and process) of the outlet raw water station to pump water treatment plant (500 mm) with the Future Will Company.
63. Sanitary design of the Faculty of Medicine and Faculty of Dentistry in collaboration with the Faculty of Yarmouk in Sudan.
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65. Sanitary design of the ICTS building January 2019.
66. Sanitary design of the ICTS distribution of petroleum products company building-ministry of oil January 2019.
67. Sanitary and plumbing design of the reverse osmosis and juice factory- zaki group 2018-2019.
68. Sanitary and plumbing design of swimming pool and all building of the Al-Ialam Entertainment Sports Complex in Baghdad.
69. Sanitary check design of the plumbing of the Al-Numan Hospital Project in Baghdad.
70. Sanitary and plumbing design of the Amriya Mall in Baghdad.
71. Sanitary check design of plumbing works of lawyers & notaries tower in Erbil.
72. Sanitary check design of plumbing works of Football Stadium (30.000) Spectators in Salah-Al Din
73. Sanitary design of plumbing works of Dar Al-Sallam-residentual housing complex in old Al - Muthana Airport, Bagdat-Iraq which include many building towers (15-28 floors) and commerisal center with interanal plumbing works (sewage and rainwater network, water supply network, liquid petrolum gases, LPG) and site plumbing works (water supply network, 300 mm, combined sewage network 400-800 mm, irrigation network, 200-400 mm and LPG network 150-250 mm.
74. Sanitary check design (hydraulic and process) of the Al-jesr water supply network (500 & 700 mm) 2021.