


Curriculum Vitae _ Anees Abdullah Khadom

Objective

To participate and have a position of responsibility in the fields of Chemical Engineering (corrosion and corrosion control, principles of chemical engineering, chemical industries, and petroleum, green technologies that enables me to utilize my skills and theoretical expertise to serve university teaching and working.

Personal Information

Academic degree:	Professor	
Scopus ID:	26654896500	
Researcher ID:	O-2759-2016	
ORCID :	0000-0003-2284-6325	
h – Index:	26 calculated by Google Scholar	
Birth Date & Place:	January, 10, 1976 – Iraq	
Nationality:	Iraqi	
Passport Number:	A12517022 valid until July, 10, 2025.	
Marital Status:	Married – Three children	
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Postal address:	Department of Chemical Engineering, College of Engineering, Diyala University, Baquba City, Diyala Governorate, ZIP 32001, Iraq.	

Professional Strength and Skills

- Very effective in corrosion and corrosion control, especially the corrosion of metals in aqueous media, such as water, oil and acids. Also in cleaning and pickling of metals by acids and how to protect these metals from corrosion problems.
- Wide theoretical knowledge in most subject of chemical engineering such as mass transfer, heat transfer, fluid flow, thermodynamics, reactor design, mathematics, engineering analysis.

Educational Qualifications

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|--------------------------------------|-----------|---|
| • Post Doctorate Fellow | 2008-2009 | Faculty of Engineering and Built Environment-Dep. Chem. Proc. Eng- National University of Malaysia (UKM). |
| • Ph.D. Chemical Engineering | 2002-2006 | College of Engineering – Baghdad University-Iraq. (English Curriculum) |
| • Ms. C. Chemical Engineering | 1997-2000 | College of Engineering – Baghdad University-Iraq. (English Curriculum). |

- **B.Sc. Chemical Engineering** 1993-1997 College of Engineering – Tikrit University-Iraq. (English Curriculum).

Memberships and Academic positions

- **The Dean - College of Engineering – Diyala University, 2019 – till now.**
- Head of Chemical Engineering Department - College of Engineering – Diyala University, 2018 – 2019.
- Dean assistance for directorial and financial affairs College of Engineering – Diyala University 2017 - 2018.
- Head of Chemical Engineering Department - College of Engineering – Diyala University 2012 – 2017.
- Consultant in Center of Petroleum Research and Development - Ministry of Oil – Iraq – 2014.
- Consultant in Engineering Consultant Bureau – College of Engineering – Diyala University – 2014.
- Dean assistant for student’s affairs - College of Engineering – Diyala University since 2010 - 2012.
- Head of Educational Students Supervision Committee of College of Engineering – Diyala University 2011.
- Coordinator - College of Science – Diyala University since 2001 - 2002.
- Member of Promotions Committee of College of Engineering – Diyala University.
- Member of Scientific Committee of College of Engineering – Diyala University.
- Member of Iraqi Engineers Union (IEU) since 1997 till now.

Training and Courses

- Training course for one month in Fredrick – Alexander University in Nuremberg – Germany - 2011.
- Training course for six months in Chemical and Process Engineering Department – National University of Malaysia - 2009.
- Computer Programming Course for one month in College of Education–Computer Department – Baghdad University – Iraq - 2002.
- Methods of Teaching Course for one month in College of Education– Diyala University – Iraq - 2002.
- English Language Certificate - College of Languages – Baghdad University – Iraq - 1997.

Languages

- English: Written and spoken (Very good)
- Arabic: Mother tongue.

Employment History (Academic & Technical)**Diyala University – College of Engineering (2002 – 2021)**

Location: Diyala – Iraq

Position: Academic staff at Chemical Engineering Department.

Academic degree: Professor

Description: Teaching Mathematics (Engineering Calculus I&II) for the first and second stages and Engineering Analysis for the third stage, Principles of chemical engineering, Equipment Design.

Tikrit University – College of Engineering (part time) (2000 – 2002)

Location: Tikrit – Iraq

Position: External lecturer

Description: Teaching the Principles, Fundamentals and Calculations of Chemical Engineering, and the principle of material and energy balance.

General State of Drugs Industries and Medical Requirements (SDI) (2000-2002)

Location: Sammara – Iraq

Position: Chemical Engineer -Researcher

Description: Working in the Department of Research and Development to develop new tablet structures. This work gives wide experience in solving the industrial problems by using the scientific research.

Diyala Company for Foods Industries (2000-2001)

Location: Diyala – Iraq

Position: Chief Chemical Engineer

Description: Production and supervision engineer in the production department of tomato paste (a concentrated product) through a multistage evaporation system. This responsibility gives the ability to control the production processes, arrange the work team, responsibility distribution, and equipment maintenance and cleaning. Also working in Quality Control Department, that gives the ability to deal with industrial specifications tables of different materials, entrance and existing of materials, and how to deal with QC apparatus.

Supervision of Theses and dissertations

1. *Study the performance of some bacteria in production of biofuel*, 2014 – MSc thesis, Biology Department, College of Education for Pure Sciences, Diyala University, Iraq.
2. *Reduction in The Environmental Effects of Reverse Osmosis Reject by Solar Pond*, 2016 - MSc thesis, Department of Chemical and environment engineering, Faculty of engineering, UPM, Malaysia.
3. *Retardation of high temperature Corrosion via Nanoparticles*, 2016 – MSc thesis, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, China.

4. *Corrosion Inhibition and Galvanic Coupling of Steel –Copper Alloy Pair in Oil Refinery Waste Water*, 2014 – *PhD thesis*, Chemical Engineering Department, College of Engineering, Baghdad University, Iraq.
5. *Inhibition of Carbon Steel Corrosion in Acid Medium Using Plant Extracts*, 2016, *MSc thesis*, Chemistry Department, College of Education for Pure Sciences, Diyala University, Iraq.
6. *Study of the Effect of Nanomaterials on the Physical Properties of Epoxy Blends*, 2017, *MSc thesis*, Physics Department, College of Education for Pure Sciences, Diyala University, Iraq.
7. etc.

Reviewer and referee

Reviewer and referee in:

1. Industrial and Engineering Chemistry Research Journal.
2. Research on Chemical Intermediates Journal.
3. Computers and Chemical Engineering Journal.
4. Arabian Journal of Chemistry.
5. Journal of Industrial and Engineering Chemistry.
6. Journal of Materials and Environmental Science.
7. Corrosion Science.
8. etc.

Awards and Prizes

- Winner of *Science Day* prize of Ministry of Higher Education and Scientific Research – Iraq for publishing in a well – known impacted journal – 2011.
- Winner of *Science Day* prize of Ministry of Higher Education and Scientific Research – Iraq for publishing in a well – known impacted journal – 2012.
- Winner of *Science Day* prize of Ministry of Higher Education and Scientific Research – Iraq for publishing a book – 2013.
- Winner of *Ministry of Higher Education and Scientific Research Prize of Sciences* – Iraq – 2014.

Membership of journal editorial board

- American Journal of Chemistry and Application.
- American Journal of Applied Chemistry.
- American Journal of Chemical Engineering.
- Moroccan Journal of Chemistry
- Diyala Journal of Engineering Sciences.
- Iraqi Journal of Chemical and Petroleum Engineering.

Selected Published Research Papers

1. Zhan Chen, Meng Wang, Ahmed A Fadhil, Chaoyang Fu, Tianqi Chen, Mengjin Chen, **Anees A Khadom**, Hameed B Mahood, Preparation, characterization, and corrosion inhibition performance of graphene oxide quantum dots for Q235 steel in 1 M hydrochloric acid solution, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 627, (2021) 127209.
2. Rehab M Kubba, Mustafa M Kadhim, **Anees A Khadom**, Prediction the ability of using vitamins and amino acids as carrier's linkage for diclofenac drug: A theoretical and comparative approach, *Results in Chemistry*, 3 (2021) 100212.
3. MS Mahdi, HB Mahood, AA Alammari, **AA Khadom** Numerical investigation of PCM melting using different tube configurations in a shell and tube latent heat thermal storage unit, *Thermal Science and Engineering Progress* 25, (2021) 101030.
4. KH Rashid, **AA Khadom**, HB Mahood, Aluminum ASA 6061 anodizing process by chromic acid using box-wilson central composite design: optimization and corrosion tendency, *Metals and Materials International* 27 (2021) 4059-4073
5. HA Almashhadani, MK Alshujery, M Khalil, MM Kadhem, **AA Khadom**, Corrosion inhibition behavior of expired diclofenac Sodium drug for Al 6061 alloy in aqueous media: Electrochemical, morphological, and theoretical investigations, *Journal of Molecular Liquids*, (2021) 117656.
6. Mahdi, Mustafa S., Hameed B. Mahood, Jasim M. Mahdi, **Anees A. Khadom**, and Alasdair N. Campbell. "Improved PCM melting in a thermal energy storage system of double-pipe helical-coil tube." *Energy Conversion and Management* 203 (2020): 112238.
7. Fadhil, Ahmed A., **Anees A. Khadom**, Salima K. Ahmed, Hongfang Liu, Chaoyang Fu, and Hameed B. Mahood. "Portulaca grandiflora as new green corrosion inhibitor for mild steel protection in hydrochloric acid: Quantitative, electrochemical, surface and spectroscopic investigations." *Surfaces and Interfaces* 20 (2020): 100595.
8. Mahood, Hameed B., Mustafa S. Mahdi, Alireza Abbassi Monjezi, **Anees A. Khadom**, and Alasdair N. Campbell. "Numerical investigation on the effect of fin design on the melting of phase change material in a horizontal shell and tube thermal energy storage." *Journal of Energy Storage* 29 (2020): 101331.
9. Rashid, Khalid H., and **Anees A. Khadom**. "3-Methoxypropyl-amine as corrosion inhibitor for X80 steel in simulated saline water." *Journal of Molecular Liquids* 319 (2020): 114326.
10. Mohammed, Adnan A., Ziad T. Khodair, and **Anees A. Khadom**. "Preparation, characterization and application of Al₂O₃ nanoparticles for the protection of boiler steel tubes from high

- temperature corrosion." *Ceramics International* 46, no. 17 (2020): 26945-26955.
11. Fadhil, Ahmed A., **Anees A. Khadom**, Chaoyang Fu, Hongfang Liu, Hameed B. Mahood, Adel K. Mahmoud, Mohammed Z. Khalaf, and Abdul Mun'em A. Karim. "Ceramics coating materials for corrosion control of crude oil distillation column: Experimental and theoretical studies." *Corrosion Science* 162 (2020): 108220.
 12. Mohammed, Adnan A., Ziad T. Khodair, and **Anees A. Khadom**. "Preparation and investigation of the structural properties of α -Al₂O₃ nanoparticles using the sol-gel method." *Chemical Data Collections* 29 (2020): 100531.
 13. Mahdi, Mustafa S., Hameed B. Mahood, Alasdair N. Campbell, and **Anees A. Khadom**. "Experimental study on the melting behavior of a phase change material in a conical coil latent heat thermal energy storage unit." *Applied Thermal Engineering* 175 (2020): 114684.
 14. Rashid, Khalid H., **Anees A. Khadom**, Hameed B. Mahood, and Alasdair N. Campbell. "The Effect of Mass Transfer on Corrosion in Oilfield Production Processes by Wastewater Enriched with CO₂: Computer-Aided Modeling and Experimental Verification." *Case Studies in Chemical and Environmental Engineering* (2020): 100030.
 15. **Khadom, Anees A.**, Mustafa S. Mahdi, and Hameed B. Mahood. "Mathematical Regression and Artificial Neural Network for Prediction of Corrosion Inhibition Process of Steel in Acidic Media." *Journal of Bio-and Tribo-Corrosion* 6, no. 3 (2020): 1-10.
 16. Mahood, Hameed B., Asaad H. Sayer, Athraa H. Mekky, and **Anees A. Khadom**. "Performance of Synthesized Acetone Based Inhibitor on Low Carbon Steel Corrosion in 1 M HCl Solution." *Chemistry Africa* 3, no. 1 (2020): 263-276.
 17. Mahmmod, Adiba A., **Anees A. Khadom**, and Hameed B. Mahood. "Experimental Modeling of Inhibition's Mechanism of Cupronickel Alloy by DETA and EDA into Acid Corrosive Media." *Journal of Bio-and Tribo-Corrosion* 6, no. 85 (2020): 85.
 18. **Khadom, Anees A.**, Mustafa S. Mahdi, and Hameed B. Mahood. "Corrosion course teaching using a combined experimental and theoretical approach by bridging with two mandatory courses in chemical engineering program: Reaction kinetics and thermodynamics." *Education for Chemical Engineers* (2020).
 19. Khodair, Ziad T., Ali M. Mohammad, and **Anees A. Khadom**. "Investigations of structural and magnetic properties of Cu_{1-x}V_xO nanostructures prepared by sol-gel method." *Chemical Data Collections* 25 (2020): 100315.
 20. Rashid, Khalid H., and **Anees A. Khadom**. "Mathematical Modeling and Electrochemical

- Behavior for Corrosion Inhibition of Steel by Kiwi Juice Extract." *Journal of Bio-and Tribo-Corrosion* 6, no. 1 (2020): 13.
21. Rashid, Khalid H., and **Anees A. Khadom**. "Sodium sulfite as an oxygen scavenger for the corrosion control of mild steel in petroleum refinery wastewater: optimization, mathematical modeling, surface morphology and reaction kinetics studies." *Reaction Kinetics, Mechanisms and Catalysis* (2020): 1-20.
22. AL-Musawi, Osamah AH, **Anees A. Khadom**, Hamed B. Mahood, and Mustafa S. Mahdi. "Solar pond as a low grade energy source for water desalination and power generation: a short review." *Renewable Energy and Environmental Sustainability* 5 (2020): 4.
23. Mahdi, Mustafa S., Hameed B. Mahood, Ahmed F. Hasan, and **Anees A. Khadom**. "Solidification enhancement of phase change material implemented in latent heat thermal energy storage." In *AIP Conference Proceedings*, vol. 2213, no. 1, p. 020039. AIP Publishing LLC, 2020.
24. Rashid, Khalid H., **Anees A. Khadom**, and Hameed B. Mahood. "Aluminum ASA 6061 Anodizing Process by Chromic Acid Using Box–Wilson Central Composite Design: Optimization and Corrosion Tendency."
25. Mahdi, Mustafa S., Hameed B. Mahood, Jasim M. Mahdi, **Anees A. Khadom**, and Alasdair N. Campbell. "Improved PCM melting in a thermal energy storage system of double-pipe helical-coil tube." *Energy Conversion and Management* 203 (2020): 112238.
26. Ahmed, Salima K., Wassan B. Ali, and **Anees A. Khadom**. "Synthesis and investigations of heterocyclic compounds as corrosion inhibitors for mild steel in hydrochloric acid." *International Journal of Industrial Chemistry* 10, no. 2 (2019): 159-173.
27. Mahdi, Mustafa S., Ahmed F. Hasan, Hameed B. Mahood, Alasdair N. Campbell, **Anees A. Khadom**, Abdul Mun'em A. Karim, and Adel O. Sharif. "Numerical study and experimental validation of the effects of orientation and configuration on melting in a latent heat thermal storage unit." *Journal of Energy Storage* 23 (2019): 456-468.
28. Fadhil, Ahmed A., **Anees A. Khadom**, Hongfang Liu, Chaoyang Fu, Junlei Wang, Noor A. Fadhil, and Hameed B. Mahood. "(S)-6-Phenyl-2, 3, 5, 6-tetrahydroimidazo [2, 1-b] thiazole hydrochloride as corrosion inhibitor of steel in acidic solution: Gravimetric, electrochemical, surface morphology and theoretical simulation." *Journal of Molecular Liquids* 276 (2019): 503-518.
29. Mahdi, Mustafa S., Hameed B. Mahood, **Anees A. Khadom**, Alasdair N. Campbell, Mohamad

- Hasan, and Adel O. Sharif. "Experimental investigation of the thermal performance of a helical coil latent heat thermal energy storage for solar energy applications." *Thermal Science and Engineering Progress* 10 (2019): 287-298.
30. Fadhil, Ahmed A., **Anees A. Khadom**, Salima K. Ahmed, Hongfang Liu, Chaoyang Fu, and Hameed B. Mahood. "Portulaca grandiflora as new green corrosion inhibitor for mild steel protection in hydrochloric acid: Quantitative, electrochemical, surface and spectroscopic investigations." *Surfaces and Interfaces* 20 (2020): 100595.
31. Mahdi, Mustafa S., Hameed B. Mahood, Ahmed F. Hasan, **Anees A. Khadom**, and Alasdair N. Campbell. "Numerical study on the effect of the location of the phase change material in a concentric double pipe latent heat thermal energy storage unit." *Thermal Science and Engineering Progress* 11 (2019): 40-49.
32. Mahdi, Mustafa S., **Anees A. Khadom**, Hameed B. Mahood, Mahmood Abdul Razak Yaqup, Jammal M. Hussain, Khalid I. Salih, and Hussein A. Kazem. "Effect of fin geometry on natural convection heat transfer in electrical distribution transformer: Numerical study and experimental validation." *Thermal Science and Engineering Progress* 14 (2019): 100414.
33. Mahood, Hameed B., Mustafa S. Mahdi, Alireza Abbassi Monjezi, **Anees A. Khadom**, and Alasdair N. Campbell. "Numerical investigation on the effect of fin design on the melting of phase change material in a horizontal shell and tube thermal energy storage." *Journal of Energy Storage* 29 (2020): 101331.
34. Al-Waeli, Ali HA, Miqdam T. Chaichan, Kamaruzzaman Sopian, Hussein A. Kazem, Hameed B. Mahood, and **Anees A. Khadom**. "Modeling and experimental validation of a PVT system using nanofluid coolant and nano-PCM." *Solar Energy* 177 (2019): 178-191.
35. Rashid, Khalid Hamid, and **Anees Abdullah Khadom**. "Optimization of inhibitive action of sodium molybdate (VI) for corrosion of carbon steel in saline water using response surface methodology." *Korean Journal of Chemical Engineering* 36, no. 8 (2019): 1350-1359.
36. Khodair, Ziad T., **Anees A. Khadom**, and Hassan A. Jasim. "Corrosion protection of mild steel in different aqueous media via epoxy/nanomaterial coating: preparation, characterization and mathematical views." *Journal of Materials Research and Technology* 8, no. 1 (2019): 424-435.
37. Ahmed, Salima K., Wassan B. Ali, and **Anees A. Khadom**. "Synthesis and characterization of new triazole derivatives as corrosion inhibitors of carbon steel in acidic medium." *Journal of Bio-and Tribo-Corrosion* 5, no. 1 (2019): 15.
38. Fadhil, Ahmed A., **Anees A. Khadom**, Chaoyang Fu, Hongfang Liu, Hameed B. Mahood, Adel

- K. Mahmoud, Mohammed Z. Khalaf, and Abdul Mun'em A. Karim. "Ceramics coating materials for corrosion control of crude oil distillation column: Experimental and theoretical studies." *Corrosion Science* 162 (2020): 108220.
39. Abod, Baker M., Ramy M. Al-Alawy, **Anees A. Khadom**, and Firas H. Kamar. "Experimental and theoretical studies for tobacco Leaf extract as an eco-friendly inhibitor for steel in saline water." *Journal of Bio-and Tribo-Corrosion* 5, no. 3 (2019): 75.
40. **Khadom, Anees** A., Ahmed N. Abd, and Nagham Arif Ahmed. "Xanthium strumarium leaves extracts as a friendly corrosion inhibitor of low carbon steel in hydrochloric acid: Kinetics and mathematical studies." *south african journal of chemical engineering* 25 (2018): 13-21.
41. **Khadom, Anees** A., Ahmed N. Abd, and Nagham Arif Ahmed. "Potassium iodide as a corrosion inhibitor of mild steel in hydrochloric acid: kinetics and mathematical studies." *Journal of Bio-and Tribo-Corrosion* 4, no. 2 (2018): 17.
42. Mahmmud, Adiba A., Ivan A. Kazarinov, **Anees A. Khadom**, and Hameed B. Mahood. "Experimental and theoretical studies of mild steel corrosion inhibition in phosphoric acid using tetrazoles derivatives." *Journal of Bio-and Tribo-Corrosion* 4, no. 4 (2018): 58.
43. **Khadom, Anees**, and Khalid Rashid. "Adsorption and kinetics behavior of kiwi juice as a friendly corrosion inhibitor of steel in acidic media." *World Journal of Engineering* (2018).
44. Rashid, Khalid, and **Anees Khadom**. "Evaluation of environmentally friendly inhibitor for corrosion of mild steel in phosphoric acid solution: unconventional approach." *Anti-Corrosion Methods and Materials* (2018).
45. **Khadom, Anees** A., Baker M. Abod, Hameed B. Mahood, and Abdul Amir H. Kadhum. "Galvanic corrosion of steel–brass couple in petroleum waste water in presence of a green corrosion inhibitor: electrochemical, kinetics, and mathematical view." *Journal of Failure Analysis and Prevention* 18, no. 5 (2018): 1300-1310.
46. **Khadom, Anees** A., and Salah N. Farhan. "Corrosion inhibition of steel in phosphoric acid." *Corrosion Reviews* 36, no. 3 (2018): 267-280.
47. Al-Musawi, Osamah AH, **Anees A. Khadom**, B. Ahmadun Fakhru'l-Razi, and Dayang R. Biak. "Water distillation in a combined solar still and solar pond system: Iraq as a case study." *Euro-Mediterranean Journal for Environmental Integration* 3, no. 1 (2018): 20.
48. Farhan, Salah N., **Anees A. Khadom**, and Abdul Mun'em Abbas Karim. "Copper and lead ions removal from aqueous solution using Mgo, Nanostructured Mgo." *Applied Chemical Engineering* 1, no. 4 (2018).

49. **Khadom, Anees** A., Abdul Mun'em A. Karim, and Salah N. Farhan. "Mathematical and artificial neural network models for corrosion of high temperature—High pressure boiler pipes in presence of oxygen scavengers." In *2018 1st International Scientific Conference of Engineering Sciences-3rd Scientific Conference of Engineering Science (ISCES)*, pp. 140-145. IEEE, 2018.
50. Abd, Ahmed N., **Anees A. Khadom**, and Nagham Arif Ahmed. "Corrosion Inhibition of Low Carbon Steel in Hydrochloric Acid By Cardaria Draba Leaves Extracts." *Journal of Petroleum Research & Studies* 20 (2018): 213-229.
51. **Khadom, Anees** A., and Baker M. Abod. "Mathematical model for galvanic corrosion of steel-copper couple in petroleum waste water in presence of friendly corrosion inhibitor." *Journal of applied research and technology* 15, no. 1 (2017): 14-20.
52. Hassan, Karim H., **Anees A. Khadom**, and Noor H. Kurshed. "Citrus aurantium leaves extracts as a sustainable corrosion inhibitor of mild steel in sulfuric acid." *south african journal of chemical engineering* 22 (2016): 1-5.
53. Mahmood, Adel K., and **Anees A. Khadom**. "Erosion-corrosion of low-carbon steel in the absence and presence of slurry in saline water: kinetic and mathematical views." *Journal of Failure Analysis and Prevention* 16, no. 6 (2016): 1071-1081.
54. Hameed, Khalid W., Aprael S. Yaro, and **Anees A. Khadom**. "Mathematical model for cathodic protection in a steel-saline water system." *Journal of Taibah University for Science* 10, no. 1 (2016): 64-69.
55. Al Azawy, Adnan Neamah, **Anees A. Khadom**, and Abdul Sattar Abdul Jabbar. "Efficiency of some types of bacteria on producing biofuels from wastes of writing paper." *Journal of environmental chemical engineering* 4, no. 3 (2016): 2816-2819.
56. Hassan, Karim H., **Anees A. Khadom**, and Noor H. Kurshed. "Experimental and mathematical studies for corrosion reaction of mild steel–sulfuric acid—friendly inhibitor system." *Eur J Sci Res* 139 (2016): 163-170.
57. **Khadom, Anees** A., K. H. Hassan, and N. H. Kurshed. "Quantum Chemical study of Citrus aurantium leaves extracts as a sustainable corrosion inhibitor of mild steel in sulfuric acid." *Australian Journal of Basic and Applied Sciences* 10, no. 15 (2016): 127-133.
58. Farhan, Salah N., and **Anees A. Khadom**. "Biosorption of heavy metals from aqueous solutions by *Saccharomyces Cerevisiae*." *International journal of industrial chemistry* 6, no. 2 (2015): 119-130.
59. **Khadom, Anees** A., Ahmed F. Hassan, and Baker M. Abod. "Evaluation of environmentally

- friendly inhibitor for galvanic corrosion of steel–copper couple in petroleum waste water." *Process Safety and Environmental Protection* 98 (2015): 93-101.
60. Yaro, Aprael S., Khalid R. Abdul-Khalik, and **Anees A. Khadom**. "Effect of CO₂ corrosion behavior of mild steel in oilfield produced water." *Journal of Loss Prevention in the Process Industries* 38 (2015): 24-38.
61. **Khadom, Anees A.** "Kinetics and synergistic effect of iodide ion and naphthylamine for the inhibition of corrosion reaction of mild steel in hydrochloric acid." *Reaction Kinetics, Mechanisms and Catalysis* 115, no. 2 (2015): 463-481.
62. **Khadom, Anees A.**, Ahmed A. Fadhil, Abdul Mun'em A. Karim, and Hongfang Liu. "Effect of hot corrosion on boilers pipes in North Baghdad Electric Power Plant Station." *Diyala Journal of Engineering Sciences* 8, no. 4 (2015): 776-784.
63. **Khadom, Anees A.** "Protection of Steel Corrosion Reaction by Benzotriazoles: A Historical Background." *Journal of Failure Analysis and Prevention* 15, no. 6 (2015): 794-802.
64. Liu, Hongfang, **Anees A. Khadom**, and Ahmed A. Fadhil. "Mathematical and artificial neural network models for prediction of fuel oil ash corrosion of boiler tubes in presence of inhibitor." *European Journal of Scientific Research* 135, no. 1 (2015): 5-1.
65. Mahdi, Mustafa S., and **Anees A. Khadom**. "STUDY THE ECONOMICAL AND OPTIMUM THERMAL INSULATION THICKNESS OF BUILDING WALLS FOR ENERGY SAVING IN IRAQ." *Diyala Journal of Engineering Sciences* 8, no. 4 (2015): 813-818.
66. **Khadom, Anees A.**, and Ali A. Abdul-Hadi. "Performance of polyacrylamide as drag reduction polymer of crude petroleum flow." *Ain Shams Engineering Journal* 5, no. 3 (2014): 861-865.
67. **Khadom, Anees A.**, and Aprael S. Yaro. "Mass transfer effect on corrosion inhibition process of copper–nickel alloy in hydrochloric acid by Benzotriazole." *Journal of Saudi Chemical Society* 18, no. 3 (2014): 214-219.
68. **Khadom, Anees A.**, and Ali A. Abdul-Hadi. "Kinetic and mathematical approaches to the corrosion of mild steel in nitric acid." *Reaction Kinetics, Mechanisms and Catalysis* 112, no. 1 (2014): 15-26.
69. Yaro, Aprael S., **Anees A. Khadom**, and Rafal K. Wael. "Garlic powder as a safe environment green corrosion inhibitor for mild steel in acidic media; adsorption and quantum chemical studies." *Journal of the Chinese Chemical Society* 61, no. 6 (2014): 615-623.
70. **Khadom, Anees A.** "EFFECT OF TEMPERATURE ON CORROSION INHIBITION OF COPPER-NICKEL ALLOY BY TETRAETHYLENEPENTAMINE UNDER FLOW

- CONDITIONS." *Journal of the Chilean Chemical Society* 59, no. 3 (2014): 2545-2549.
71. **Khadom, Anees A.** "Dual function of benzotriazole as copper alloy corrosion inhibitor and hydrochloric acid flow improver." *Surface Engineering and Applied Electrochemistry* 50, no. 2 (2014): 157-172.
 72. Yaro, Aprael S., **Anees A. Khadom,** and Munaf A. Idan. "Galvanic corrosion inhibition behavior of coupled copper—Steel alloys in cooling water system." *Journal of Environmental Chemical Engineering* 2, no. 4 (2014): 2120-2128.
 73. Yaro, Aprael S., **Anees A. Khadom,** and Rafal K. Wael. "Apricot juice as green corrosion inhibitor of mild steel in phosphoric acid." *Alexandria Engineering Journal* 52, no. 1 (2013): 129-135.
 74. Abdul-Hadi, Ali A., and **Anees A. Khadom.** "Studying the effect of some surfactants on drag reduction of crude oil flow." *Chinese Journal of Engineering* 2013 (2013): 6.
 75. **Khadom, Anees** Abdullah. "Modeling of corrosion reaction data in inhibited acid environment using regressions and artificial neural networks." *Korean Journal of Chemical Engineering* 30, no. 12 (2013): 2197-2204.
 76. Yaro, Aprael S., **Anees A. Khadom,** and Shafaa M. Lahmod. "Kinetics of the corrosion inhibition reaction of steel alloys in acidic media by potassium iodide." *Reaction Kinetics, Mechanisms and Catalysis* 109, no. 2 (2013): 417-432.
 77. **Khadom, Anees** A. "Effect of corrosive solution motion on copper–nickel alloy pipe in presence of naphthylamine as a corrosion inhibitor." *J Mater Environ Sci* 4 (2013): 510-519.
 78. Musa, Ahmed Y., **Anees A. Khadom,** Abdul Amir H. Kadhum, Mohd Sobri Takriff, and Abu Bakar Mohamad. "The role of 4-amino-5-phenyl-4H-1, 2, 4-triazole-3-thiol in the inhibition of nickel–aluminum bronze alloy corrosion: electrochemical and DFT studies." *Research on Chemical Intermediates* 38, no. 1 (2012): 91-103.
 79. **Khadom, Anees** A., Aprael S. Yaro, Ahmed Y. Musa, Abu Bakar Mohamad, and Abdul Amir H. Kadhum. "Corrosion inhibition of copper-nickel alloy: Experimental and theoretical studies." *Journal of the Korean Chemical Society* 56, no. 4 (2012): 406-415.
 80. **Khadom, Anees** A. "Mathematical models for prediction of corrosion inhibition rates of steel in acidic media." In *2012 First National Conference for Engineering Sciences (FNCES 2012)*, pp. 1-4. IEEE, 2012.
 81. Yaro, Khalid W. Hameed Aprael S., and **Anees A. Khadom.** "Mathematical Model for Cathodic Protection in a Steel." *International Journal of Chemical Technology* 4 (2012): 17-30.

82. **Anees, A. Khadom** "Molecular Structure of Phenylthiourea as a Corrosion Inhibitor for Mild Steel in Hydrochloric Acid." *Corrosion Science and Protection Technology* 23, no. 6 (2012): 457-462.
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Conferences












No	Conference	Paper title	Proceeding or journal name
1	First Scientific Conference in Engineering Sciences, Dailya University, College of Engineering, Dec. 22-23, 2010. Iraq.	Application of Tow Theoretical Models to Corrosion Process of Metals in Hydrochloric Acid	Diyala Journal for Engineering Sciences, special issue.

2	First Scientific Conference of College of Material Engineering, Babylon University, Dec. 28-29, 2010. Iraq.	Statistical Analysis for the Corrosion of Stainless Steel Alloys in Presence of Potassium Iodide as Corrosion Inhibitor in Acidic Media	The Iraqi Journal for Mechanical and Materials Engineering, special issue (B), pp. 184 – 187, 2012.
3	12 th Scientific Conference – Foundation of Technical Education, March, 27 – 28, 2011.	Mass Transfer Correction factor for Corrosion Inhibition of Copper - Nickel Alloy in HCl Acid	Paper published in special proceeding
4	Second Scientific Conference, College of Sciences, Dailya University, College of Sciences, April 19 -20, 2011.	Application of Some Non-ideal Adsorption Isotherm Models to Corrosion Inhibitor-Metal System	Paper published in special proceeding
5	First Scientific Conference on Modern Technologies in Oil and Gas Refining, April 25 – 27, 2011	Determination of Efficiency and Thermodynamics Parameters of Corrosion Inhibition of Low Carbon Steel in Phosphoric Acid	Paper published in special proceeding
6	First Scientific Conference Materials Engineering Department, LASIR institute and University of Technology, March 19 – 20, 2012	Performance of Copper-Nickel Alloy in Inhibited Hydrochloric Acid	Paper published in special proceeding
7	The First National conference for Engineering Sciences, November 7-8, 2012	Mathematical Models for Prediction of Corrosion Inhibition Rates of Steel in Acidic Media	Paper published in The First National conference for Engineering Sciences Proceeding, pp. 227 – 230, College of Engineering, AL-Nahrain University, Iraq. IEEE proceeding.
8	Second Scientific Conference in Engineering Sciences, Dailya University, College of Engineering, Dec. 16-17, 2015. Iraq.	<ol style="list-style-type: none"> 1. Study the Economical and Optimum Thermal Insulation Thickness of Building Walls for Energy Saving In Iraq. 2. Effect of Hot Corrosion on Boilers Pipes In North Baghdad Electric Power Plant Station. 	Diyala Journal for Engineering Sciences, special issue.

Published Books

No	Book title and publisher	ISBN
1	<i>Tribology and Surface Engineering</i> , NOVA Science Publisher Inc, New York, USA, 2012. Chapter in book, Chapter 11, page 171.	978-1-61470-021-0
2	<i>Mathematics in Simplified Way</i> , LAMBERT Academic Publishing, Germany, 2012.	978-3-659-30942-7
3	<i>Corrosion of Copper Alloys in Acids</i> , LAMBERT Academic Publishing, Germany, 2013.	978-3-659-48042-3

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