

Falah K. Matloub



Contact information:

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Date of birth: April 1, 1957

Nationality: Iraqi

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Education:

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| • B.Sc. Chemical Engineering | 1979 | Baghdad University |
| • M.Sc. Chemical Engineering | 1983 | Baghdad University |
| • Ph.D. Chemical Engineering | 1992 | Baghdad University |

Experience:

- 1984-1986 Asst. Engineer, Petroleum Research center
- 1986-1993 Asst. Researcher, Petroleum Research center
- 1993-1996 Lecturer Bright, Star University
- 1996-1998 Assistant Professor, Bright Star University
- 1999-2001 Assistant Professor, Gar Younis University
- 2001-2003 Assistant Professor, Al-Margib University
- 2004-2024 Member Of academic staff, college of engineering
- 2005-2011 Head of Electrochemical Engineering Department, Babylon University
- 2006-2011 Director of engineering consultancy bureau, Babylon University
- 2012-2013 Dean Assistant for Administrative Affairs, college of engineering
- 2013-2016 Assistant Dean for Scientific Affairs and postgraduate studies, college of engineering.
- 2019-2020 Head of chemical engineering department, college of engineering.

Objective:

Chemical engineering and corrosion engineering:

- the application of scientific tools to design, and development
- dealing with pollution Problems in water,
- using inhibitor for corrosion protection in petroleum and industry processes.
- Application of inhibitors in concrete corrosion protection
- Corrosion rate measurements by low polarization techniques.
- Carbon steel corrosion in two-phase flow systems.
- Corrosion studies related to Petroleum and Petrochemical Industry.
- Inhibition of cooling towers.
- Corrosion in acid media and scale removal solutions and the like.
- Involved in materials selection for different process plant equipment's and components.
- Involved in process development and pilot plant.
- Studies and reassembling plant and equipment in industry.
- Studies on pyrolysis of wood and biomes.
- Supervision on Postgraduate MSc students in chemical and civil engineering departments.

Teaching Experience:

Areas Include Corrosion, Unit Operation, Fluid Mechanics, Heat Transfer, Engineering Thermodynamics, Industrial Pollution Control, Chemical Technology, Process Engineering Calculation, Computer Calculations in Chemical Engineering, Numerical Methods, Particulate Systems, Basic Principles and Calculations in Chemical Engineering, Engineering Drawing, Process Equipment Design, Supervision of Senior Students on Their Design Projects And Seminar Assignments And- Supervision on MSc students in Babylon University, College of Engineering.

Introduced innovations to improve student motivation at various levels including classroom, Laboratory and evaluation processes.

Delivered extension lectures and presented seminars on various topics, in particular in corrosion engineering to technical personnel as part of continuing education programs at Petroleum Research Center, and elsewhere.

Innovation & awards:

Scientific Research Council of Iraq approved as an innovation, the development of fish food suitable for local resources.

Publications:

Paper Publication in Journals

1. Thermo gravimetric and pyrolytic investigation on reed, Journal of Petroleum Research Center, Baghdad, Vol.5, No.2, 1986, PP 141-157.
2. Corrosion and its inhibition in water with different hardness, Ibid. vol.6, No. 1, 1987, PP 129-144.
3. Corrosion investigation of drilling in various concentrations of salts mixture with and without adding mud at different temperatures, Ibid. Vol.7, No.1, 1998, PP 51-62.
4. Investigation the effect of ICCP and SACP on carbon steel corrosion in salt solution at different parameters, Journal of Physics Conference, 1973(1), 2021.
5. Modelling and Simulation of Pitting Corrosion, Journal of Mechanical Engineering Research and Developments, 44(5), pp. 10-17, 2021.
6. Modelling study of the optimal operation conditions of CO₂ capture from natural gas using activated methyldiethanol amine, Journal of Mechanical Engineering Research and Developments, 44(3), pp. 172-180, 2021.
7. Modeling and Simulation of Wastewater Electrocoagulation Reactor, IOP Conference Series: Materials Science and Engineering, 871(1), 2021.
8. Simulation and optimization of natural gas sweetening process: A case study of Ng sweetening unit designed by CHEN group in the Gulf of Mexico, AIP Conference Proceedings, 2030, 2018.
9. Investigating the effect of PH and salt concentration on cathodic protection of pipe-lines, International Journal of Mechanical Engineering and Technology, 9(5), pp. 474-480, 2018.
10. Investigation and optimization of electrochemical deposition approach used for recovery of chromium from tanning wastewater, Journal of Engineering and applied Sciences, 13(24), pp. 10306-10312, 2018.

Papers Presented in Scientific Conferences and Seminars

11. Investigation of carbon steel corrosion under two-phase flow (kerosene-water), Conference on Chemistry, Kuwait, Feb. 13-16, 1983.
12. Linear polarization technique in the carbon steel corrosion under tow phase flow, International Corrosion Engineering Conference, Canada, 1984.

13. Studying the effect of some inhibitors, dispersing and chelating agents on corrosion in cooling tower equipment, Second Conference of Scientific Research Council, Baghdad, May, 1986, Part2, PP 681-693.
14. Corrosion inhibitors HCl solutions, Second Seminar on Corrosion and Prevention in Industry, Ministry of Industry, March 28 April 1, Baghdad, 1987.
15. Corrosion inhibition of carbon steel in acidic medium, Ibid. 1987.
16. Investigation of carbon steel corrosion in brine solutions at different temperatures and pH values, Ibid. 1987.
17. Corrosion investigation of drilling pipe in various concentration of salts mixture with and without adding mud at different temperatures, Ibid. 1987.
18. Investigation of natural and micro-organic corrosion of carbon steel by sulfur, First Seminar on Engineering Applications of Scientific Research, college of Engineering, Baghdad, April 11-14, 1987.
19. Effect of constituent elements on behavior of stainless steel in acid medium and temperatures up to 80 c, Ibid. 1987.
20. Corrosion and corrosion prevention in water with different hardness, Ibid. 1987.
21. Local development of fish food, an innovation approved by Scientific Research Council, Innovation Department, 1987.

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