Curriculum Vitae

Ain Shams University
Faculty of Education

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- **Personal Details:**

  Date of Birth: 9/2/73

  Nationality: Egyptian

Curriculum Vitae

- **Education:**

1998-2001 **PhD., Physical Chemistry**" Application of Electrochemical Impedance Spectroscopy in Corrosion Inhibition of Iron in Acidic Media"; **Ain Shams University & Rice University, Houston, Texas, USA. (Ranked 4th in USA in Chemistry)**

1997-1998 **MSc., Electrochemistry** "Effect of Some Organic Inhibitors On corrosion of Steel In Acidic Media" Ain Shams University

1991-1994 **B.Sc.(Hons), Chemistry and Physics** Ain Shams University.

- **Fellowships and Awards:**

1. Robert A. Welch Foundation fellowship, at Rice University, Houston Texas 1999-2001
2. Robert A. Welch Foundation Postdoctoral Fellowship at Rice University, Houston Texas 2002- 2004
3. Recognition from St. Xavier's Catholic College of Engineering, Nagercoil , Tamilnadu, India in the international conference on "Advances in sustainability of Materials and Environment, April, 2014.
4. Recognition from Journal of Electrochemica Acta @ Elsevier as one of my published articles was top cited article in 2008 and 2009.
5. Ranked number one in Ain Shams University according to the Elsevier BV, Stanford University science-wide author databases of standardized citation indicators for 2019, 2020 and 2021.
6. Saudi Chemical Society Prize (Youth Version) 2012.
7. Best Researcher award from Taif University, 2011, 2012, 2013, 2014.
8. Most Cited author in Taif University award, 2011, 2012, 2013, 2014.
9. Distinguished research award from Taif University, 2011, 2012, 2013, 2014.

10. Best instructor prize at Faculty of Education 2007.
11. State encouragement award in chemical Sciences. Egypt, 2009.
12. Distinguished research award from Ain Shams University, 2012.
13. Egyptian government fellowship to conduct my PhD at Rice University, Houston, Texas (1998-2001)

Curriculum Vitae

List of Publications: (H-INDEX = 45)

Abd El Rehim, S. and Khaled F. Khaled, Corrosion inhibition and adsorption behaviour of 4-aminoantipyrine on mild steel in H2SO 4. Corrosion Prevention and Control, 1999. 46(6): p. 157-62.

2. El-Rehim, S.A., M.A. Ibrahim, and Khaled F. Khaled, 4-Aminoantipyrine as an inhibitor of mild steel corrosion in HCl solution. Journal of Applied Electrochemistry, 1999. 29(5): p. 593-599.

3. Abd El Rehim, S., M.A. Ibrahim, and Khaled F. Khaled, The inhibition of 4-(2'-amino-5'-methylphenylazo) antipyrine on corrosion of mild steel in HCl solution. Materials chemistry and physics, 2001. 70(3): p. 268-273.

4. Khaled F. Khaled, The inhibition of benzimidazole derivatives on corrosion of iron in 1 M HCl solutions. Electrochimica Acta, 2003. 48(17): p. 2493-2503.

5. Khaled F. Khaled, S.S. Abd El Rehim, and N. Hackerman. Studies on corrosion inhibition of iron in 1M HCl solutions. in 9th European Symposium on Corrosion Inhibitors. 2003.

6. Khaled F. Khaled and N. Hackerman, Investigation of the inhibitive effect of ortho-substituted anilines on corrosion of iron in 1 M HCl solutions. Electrochimica Acta, 2003. 48(19): p. 2715-2723.

7. Khaled F. Khaled and N. Hackerman, Investigation of the inhibitive effect of ortho-substituted anilines on corrosion of iron in 0.5 MH 2 SO 4 solutions. Materials chemistry and physics, 2003. 82(3): p. 949-960.

8. Khaled F. Khaled, An electrochemical study for corrosion inhibition of iron by some organic phosphonium chloride derivatives in acid media. Applied surface science, 2004. 230(1): p. 307-318.

9. Khaled F. Khaled, K. Babi, and N. Hackerman, Piperidines as corrosion inhibitors for iron in hydrochloric acid. Journal of Applied Electrochemistry, 2004. 34(7): p. 697-704.

10. Khaled F. Khaled and N. Hackerman, Ortho-substituted anilines to inhibit copper corrosion in aerated 0.5 M hydrochloric acid. Electrochimica Acta, 2004. 49(3): p. 485-495.

11. Babić-Samardžija, K., Khaled F. Khaled, and N. Hackerman, N-heterocyclic amines and derivatives as corrosion inhibitors for iron in perchloric acid. Anti-Corrosion Methods and Materials, 2005. 52(1): p. 11-21.

12. Babić-Samardžija, K., Khaled F. Khaled, and N. Hackerman, Investigation of the inhibiting action of O-, S-and N-dithiocarbamato (1, 4, 8, 11-tetraazacyclotetradecane) cobalt (III) complexes on the corrosion of iron in HClO 4 acid. Applied surface science, 2005. 240(1): p. 327-340.

13. Khaled F. Khaled, K. Babić-Samardžija, and N. Hackerman, Theoretical study of the structural effects of polymethylene amines on corrosion inhibition of iron in acid solutions. Electrochimica Acta, 2005. 50(12): p. 2515-2520.

14. Abdel-Rehim, S., Khaled F. Khaled, and N. Abd-Elshafi, Electrochemical frequency modulation as a new technique for monitoring corrosion inhibition of iron in acid media by new thiourea derivative. Electrochimica Acta, 2006. 51(16): p. 3269-3277.

15. Khaled F. Khaled, Experimental and theoretical study for corrosion inhibition of mild steel in hydrochloric acid solution by some new hydrazine carbodithioic acid derivatives. Applied surface science, 2006. 252(12): p. 4120-4128.

16. Khaled F. Khaled, K. Babić-Samardžija, and N. Hackerman, Cobalt (III) complexes of macrocyclic-bidentate type as a new group of corrosion inhibitors for iron in perchloric acid. Corrosion science, 2006. 48(10): p. 3014-3034.

17. Khaled F. Khaled, Molecular simulation, quantum chemical calculations and electrochemical studies for inhibition of mild steel by triazoles. Electrochimica Acta, 2008. 53(9): p. 3484-3492.

18. Khaled F. Khaled, Guanidine derivative as a new corrosion inhibitor for copper in 3% NaCl solution. Materials Chemistry and Physics, 2008. 112(1): p. 104-111.

19. Khaled F. Khaled, Application of electrochemical frequency modulation for monitoring corrosion and corrosion inhibition of iron by some indole derivatives in molar hydrochloric acid. Materials Chemistry and Physics, 2008. 112(1): p. 290-300.

20. Khaled F. Khaled, New synthesized guanidine derivative as a green corrosion inhibitor for mild steel in acidic solutions. Int. J. Electrochem. Sci, 2008. 3(1): p. 462-475.

21. Khaled F. Khaled, Adsorption and inhibitive properties of a new synthesized guanidine derivative on corrosion of copper in 0.5 MH 2 SO 4. Applied Surface Science, 2008. 255(5): p. 1811-1818.

22. Khaled F. Khaled and M.A. Amin, Computational and electrochemical investigation for corrosion inhibition of nickel in molar nitric acid by piperidines. Journal of Applied Electrochemistry, 2008. 38(11): p. 1609-1621.

23. Rehim, S.S.A., Khaled F. Khaled et al., On the corrosion inhibition of low carbon steel in concentrated sulphuric acid solutions. Part I: Chemical and electrochemical (AC and DC) studies. Corrosion Science, 2008. 50(8): p. 2258-2271.

24. Khaled F. Khaled, Experimental and atomistic simulation studies of corrosion inhibition of copper by a new benzotriazole derivative in acid medium. Electrochimica Acta, 2009. 54(18): p. 4345-4352.

25. Khaled F. Khaled, Monte Carlo simulations of corrosion inhibition of mild steel in 0.5 M sulphuric acid by some green corrosion inhibitors. Journal of Solid-State Electrochemistry, 2009. 13(11): p. 1743-1756.

26. Khaled F. Khaled, Evaluation of electrochemical frequency modulation as a new technique for monitoring corrosion and corrosion inhibition of carbon steel in perchloric acid using hydrazine carbodithioic acid derivatives. Journal of Applied Electrochemistry, 2009. 39(3): p. 429-438.

27. Khaled F. Khaled and M. Al-Qahtani, The inhibitive effect of some tetrazole derivatives towards Al corrosion in acid solution: Chemical, electrochemical and theoretical studies. Materials Chemistry and Physics, 2009. 113(1): p. 150-158.

28. Khaled F. Khaled and M.A. Amin, Corrosion monitoring of mild steel in sulphuric acid solutions in presence of some thiazole derivatives–molecular dynamics, chemical and electrochemical studies. Corrosion Science, 2009. 51(9): p. 1964-1975.

29. Khaled F. Khaled and M.A. Amin, Dry and wet lab studies for some benzotriazole derivatives as possible corrosion inhibitors for copper in 1.0 M HNO 3. Corrosion Science, 2009. 51(9): p. 2098-2106.

30. Khaled F. Khaled and M.A. Amin, Electrochemical and molecular dynamics simulation studies on the corrosion inhibition of aluminum in molar hydrochloric acid using some imidazole derivatives. Journal of Applied Electrochemistry, 2009. 39(12): p. 2553-2568.

31. Khaled F. Khaled, S.A. Fadl-Allah, and B. Hammouti, Some benzotriazole derivatives as corrosion inhibitors for copper in acidic medium: Experimental and quantum chemical molecular dynamics approach. Materials Chemistry and Physics, 2009. 117(1): p. 148-155.

32. Al-Mobarak, N., Khaled F. Khaled et al., Corrosion inhibition of copper in chloride media by 2-mercapto-4-(p-methoxyphenyl)-6-oxo-1, 6-

dihydropyrimidine-5-carbonitrile: Electrochemical and theoretical study. Arabian Journal of Chemistry, 2010. 3(4): p. 233-242.

33. Al-Mubarak, N., Khaled F. Khaled, and K. Abdel-Azim, Electrochemical investigation of corrosion and corrosion inhibition of copper in NaCl solutions. Journal of Materials and Environmental Science, 2010. 1(9).

34. Amin, M.A. and Khaled F. Khaled, Copper corrosion inhibition in O 2-saturated H 2 SO 4 solutions. Corrosion Science, 2010. 52(4): p. 1194-1204.

35. Amin, M.A. and Khaled F. Khaled, Monitoring corrosion and corrosion control of iron in HCl by non-ionic surfactants of the TRITON-X series–Part I. Tafel polarisation, ICP-AES and EFM studies. Corrosion Science, 2010. 52(5): p. 1762-1770.

36. Amin, M.A., Khaled F. Khaled, and S.A. Fadl-Allah, Testing validity of the Tafel extrapolation method for monitoring corrosion of cold rolled steel in HCl solutions–experimental and theoretical studies. Corrosion Science, 2010. 52(1): p. 140-151.

37. Amin, M.A., Khaled F. Khaled et al., A study of the inhibition of iron corrosion in HCl solutions by some amino acids. Corrosion Science, 2010. 52(5): p. 1684-1695.

38. Benabdellah, M., Khaled F. Khaled, and B. Hammouti, Kinetic investigation of C38 steel corrosion in concentrated perchloric acid solutions. Materials Chemistry and Physics, 2010. 120(1): p. 61-64.

39. Khaled F. Khaled, Electrochemical investigation and modeling of corrosion inhibition of aluminum in molar nitric acid using some sulphur-containing amines. Corrosion science, 2010. 52(9): p. 2905-2916.

40. Khaled F. Khaled, Corrosion control of copper in nitric acid solutions using some amino acids–A combined experimental and theoretical study. Corrosion Science, 2010. 52(10): p. 3225-3234.

41. Khaled F. Khaled, Experimental, density function theory calculations and molecular dynamics simulations to investigate the adsorption of some thiourea derivatives on iron surface in nitric acid solutions. Applied Surface Science, 2010. 256(22): p. 6753-6763.

42. Khaled F. Khaled, Studies of iron corrosion inhibition using chemical, electrochemical and computer simulation techniques. Electrochimica Acta, 2010. 55(22): p. 6523-6532.

43. Khaled F. Khaled, Understanding corrosion inhibition of mild steel in acid medium by some furan derivatives: a comprehensive overview. Journal of The Electrochemical Society, 2010. 157(3): p. C116-C124.

44. Khaled F. Khaled, Electrochemical behavior of nickel in nitric acid and its corrosion inhibition using some thiosemicarbazone derivatives. Electrochimica Acta, 2010. 55(19): p. 5375-5383.

45. Khaled F. Khaled, Experimental and molecular dynamics study on the inhibition performance of some nitrogen containing compounds for iron corrosion. Materials Chemistry and Physics, 2010. 124(1): p. 760-767.

46. Khaled F. Khaled, M.A. Amin, and N. Al-Mobarak, On the corrosion inhibition and adsorption behaviour of some benzotriazole derivatives during copper corrosion in nitric acid solutions: a combined experimental and theoretical study. Journal of Applied Electrochemistry, 2010. 40(3): p. 601-613.

47. Khaled F. Khaled, et al., Inhibitive effect of thiosemicarbazone derivative on corrosion of mild steel in hydrochloric acid solution. Journal of Materials and Environmental Science, 2010. 1(3): p. 139-150.

48. Abdel-Rehim, S., Khaled F. Khaled, and N. Al-Mobarak, Corrosion inhibition of iron in hydrochloric acid using pyrazole. Arabian Journal of Chemistry, 2011. 4(3): p. 333-337.

49. Al-Mobarak, N., Khaled F. Khaled et al., Employing electrochemical frequency modulation for studying corrosion and corrosion inhibition of copper in sodium chloride solutions. Arabian Journal of Chemistry, 2011. 4(2): p. 185-193.

50. Benabdellah, M., Khaled F. Khaled et al., Thermodynamic, chemical and electrochemical investigations of 2-mercapto benzimidazole as corrosion inhibitor for mild steel in hydrochloric acid solutions. Arabian Journal of Chemistry, 2011. 4(1): p. 17-24.

51. Khaled F. Khaled, Molecular modeling and electrochemical investigations of the corrosion inhibition of nickel using some thiosemicarbazone derivatives. Journal of Applied Electrochemistry, 2011. 41(4): p. 423-433.

52. Khaled F. Khaled, Modeling corrosion inhibition of iron in acid medium by genetic function approximation method: A QSAR model. Corrosion Science, 2011. 53(11): p. 3457-3465.

53. Khaled F. Khaled, Studies of the corrosion inhibition of copper in sodium chloride solutions using chemical and electrochemical measurements. Materials Chemistry and Physics, 2011. 125(3): p. 427-433.

54. Khaled F. Khaled, Corrigendum to “Electrochemical behavior of nickel in nitric acid and its corrosion inhibition using some thiosemicarbazone derivatives”[Electrochim. Acta 55 (19)(2010) 5375–5383]. Electrochimica Acta, 2011. 56(27): p. 10292.

55. Khaled F. Khaled, Experimental and computational investigations of corrosion and corrosion inhibition of iron in acid solutions. Journal of Applied Electrochemistry, 2011. 41(3): p. 277-287.

56. Khaled F. Khaled, Erratum: Understanding Corrosion Inhibition of Mild Steel in Acid Medium by Some Furan Derivatives: A Comprehensive Overview [J. Electrochem. Soc., 157, C116 (2010)] S28. Journal of The Electrochemical Society, 2011. 158(11).

57. Khaled F. Khaled, Erratum to: Evaluation of electrochemical frequency modulation as a new technique for monitoring corrosion and corrosion inhibition of carbon steel in perchloric acid using hydrazine carbodithioic acid derivatives. Journal of Applied Electrochemistry, 2011. 41: p. 1381-1382.

58. Khaled F. Khaled, Corrigendum to "Application of electrochemical frequency modulation for monitoring corrosion and corrosion inhibition of iron by some indole derivatives in molar hydrochloric acid. Materials Chemistry and Physics, 2011. 130: p. 1396.

59. Khaled F. Khaled, Corrigendum to "Studies of the corrosion inhibition of copper in sodium chloride solutions using chemical and electrochemical measurements. Materials Chemistry and Physics, 2011. 130: p. 1394-1395.

60. Khaled F. Khaled and S. Abdel-Rehim, Electrochemical investigation of corrosion and corrosion inhibition of iron in hydrochloric acid solutions. Arabian Journal of Chemistry, 2011. 4(4): p. 397-402.

61. Khaled F. Khaled and N. Abdel-Shafi, Quantitative structure and activity relationship modeling study of corrosion inhibitors: Genetic function approximation and molecular dynamics simulation methods. International Journal of Electrochemical Science, 2011. 6: p. 4077-4094.

62. Khaled F. Khaled, et al., Molecular level investigation of the interaction of cerium dioxide layer on steel substrate used in refrigerating systems. Journal of Materials and Environmental Science, 2011. 2(2): p. 166.

63. Khaled F. Khaled, et al., Inhibition of copper corrosion in 3.5% NaCl solutions by a new pyrimidine derivative: electrochemical and computer simulation techniques. Journal of Solid State Electrochemistry, 2011. 15(4): p. 663-673.

64. Nik, W.W., Khaled F. Khaled et al., Potential of honey as corrosion inhibitor for aluminium alloy in seawater. World Applied Sciences Journal, 2011. 14(2): p. 215-220.

65. Ebenso, E.E., Khaled F. Khaled et al., Quantum chemical investigations on quinoline derivatives as effective corrosion inhibitors for mild steel in acidic medium. Int. J. Electrochem. Sci, 2012. 7(6): p. 5643-5676.

66. El-Maghraby, A., Khaled F. Khaled et al., Synthesis and characterization of leucite nano-crystalline extracted from Saudi clay for dental application. Materials Science: An Indian Journal, 2012. 8(1).

67. Khaled F. Khaled, Non-toxic corrosion inhibitors for steel in baseline solutions Part I-EIS Study. Advances in Materials and Corrosion, 2012. 1(1): p. 65-71.

68. Khaled F. Khaled, Corrosion inhibition by L-arginine – Ce4+ system: Monte Carlo simulation study. Journal of Chemica Acta, 2012. 1(1): p. 59-65.

69. Khaled F. Khaled, Non-toxic corrosion inhibitors for steel in baseline solutions Part II-EFM Study. Advances in Materials and Corrosion, 2012. 1(1): p. 72-77.

70. Khaled F. Khaled, Adsorption of tryptophan on iron (111): A molecular dynamics study. Journal of Chemica Acta, 2012. 1(1): p. 66-71.

71. Khaled F. Khaled, Ambiguities about the copper corrosion inhibition in nitric acid solutions. Advances in Materials and Corrosion, 2012. 1(1): p. 85-87.

72. Khaled F. Khaled, S. Abdel-Rehim, and G. Sakr, On the corrosion inhibition of iron in hydrochloric acid solutions, Part I: Electrochemical DC and AC studies. Arabian Journal of Chemistry, 2012. 5(2): p. 213-218.

73. Khaled F. Khaled, N. Abdel-Shafi, and N. Al-Mobarak, Understanding corrosion inhibition of iron by 2-thiophenecarboxylic acid methyl ester:

Electrochemical and computational study. Int. J. Electrochem. Sci, 2012. 7: p. 1027-1044.

74. Khaled F. Khaled, et al., Alanine as Corrosion Inhibitor for Iron in Acid Medium: A Molecular Level Study. Int. J. Electrochem. Sci, 2012. 7: p. 12706-12719.

75. Khaled F. Khaled and N. Al-Mobarak, A predictive model for corrosion inhibition of mild steel by thiophene and its derivatives using artificial neural network. International Journal of Electrochemical Science, 2012. 7(2): p. 1045-1059.

76. Yahia, I., H. Zahran, and Khaled F. Khaled, Characteristics of Albumen bio-electrochemical cell for low power applications. Journal of Chemica Acta, 2012. 1(1): p. 32-34.

77. Zarrouk, et al., Corrosion Inhibition of Copper in Nitric Acid Solutions Using a New Triazole Derivative. International Journal of Electrochemical Science, 2012. 7: p. 89-105.

78. Aouniti, A., Khaled F. Khaled, and B. Hammouti, Correlation between inhibition efficiency and chemical structure of some amino acids on the corrosion of armco iron in molar HCl. Int. J. Electrochem. Sci, 2013. 8: p. 5925-5943.

79. El-Maghraby, A., Khaled F. Khaled, and K.M. Elsabawy, Formation of leucite crystals from metakaolin-based geopolymer using kaolin and bentonite. International Journal of Chemical Sciences, 2013. 11(2).

80. Khaled F. Khaled, Electrochemical evaluation of environmentally friendly cerium salt as corrosion inhibitor for steel in 3.5% NaCl. Int. J. Electrochem. Sci, 2013. 8: p. 3974-3987.

81. Khaled F. Khaled, Scientific fraud and its implications on electrochemical and corrosion science research. Der Pharma Chemica, 2013. 5: p. 256-263.

82. Khaled F. Khaled, Scientific fraud in the digital age. Der Pharma Chemica, 2013. 5(1): p. 28-38.

83. Khaled F. Khaled and N. Abdel-Shafi, Chemical and electrochemical investigations of l-arginine as corrosion inhibitor for steel in hydrochloric acid solutions. Int. J. Electrochem. Sci, 2013. 8: p. 1409-1421.

84. Khaled F. Khaled and S.R. Al-Mhyawi, Electrochemical and Density Function Theory Investigations of L-Arginine as Corrosion Inhibitor for Steel in 3.5% NaCl. International Journal of Electrochemical Science, 2013. 8: p. 4055-4072.

85. Khaled F. Khaled and A. El-Maghraby, Adsorption of carbon monoxide on palladium single crystal (110) in Silico. Journal of Materials and Environmental Science, 2013. 4: p. 193-198.

86. Khaled F. Khaled and A. El-Sherik, Using molecular dynamics simulations and genetic function approximation to model corrosion inhibition of iron in chloride solutions. International Journal of Electrochemical Science, 2013. 8: p. 10022-10043.

87. Khaled F. Khaled and A. Sherik, Using neural networks for corrosion inhibition efficiency prediction during corrosion of steel in chloride solutions. International Journal of Electrochemical Science, 2013. 8: p. 2.

88. Yahia, I., Y. Rammah, and Khaled F. Khaled, Fabrication of an electrochemical cell based on Rhodamine B Dye for low power applications. Journal of Materials and Environmental Science, 2013. 4: p. 442-447.

89. Khaled F. Khaled, Scientific fraud in corrosion science research: a review. Research on Chemical Intermediates, 2014. 40(5): p. 1735-1752.

90. Khaled F. Khaled, Scientific integrity in the digital age: data fabrication. Research on Chemical Intermediates, 2014. 40(5): p. 1815-1849.

91. Khaled F. Khaled, Scientific fraud and the power structure of science. Research on Chemical Intermediates, 2014. 40(8): p. 2785-2798.

92. Khaled F. Khaled and N. Abdel-Shafi, Corrosion inhibition of mild steel by some sulfur containing compounds: Artificial neural network modeling. Journal of Materials and Environmental Science, 2014. 5: p. 1288-1297.

93. Khaled F. Khaled, A. Atta, and N. Abdel-Shafi, A structure/function study of polyamidoamine dendrimer as a steel corrosion inhibitor. Journal of Materials and Environmental Science, 2014. 5(3): p. 831-840.

94. Khaled F. Khaled and A. El-Maghraby, Experimental, Monte Carlo and molecular dynamics simulations to investigate corrosion inhibition of mild steel in hydrochloric acid solutions. Arabian Journal of Chemistry, 2014. 7(3): p. 319-326.

95. El Azab, I.H. and Khaled F. Khaled, Synthesis and reactivity of enaminone of naphtho [b. Russian Journal of Bioorganic Chemistry, 2015. 41(4): p. 421-436.

96. Khaled F. Khaled and E. Ebenso, Cerium salt as green corrosion inhibitor for steel in acid medium. Research on Chemical Intermediates, 2015. 41(1): p. 49-62.

97. Alghool, S., C. Slebodnick, and Khaled F. Khaled, A manganese-based coordination polymer; synthesis, structure and catalytic activity. Journal of Chemical Research, 2016. 40(7): p. 422-427.

98. Aoun, S.B., Khaled F. Khaled et al., Electrochemical Impedance Spectroscopy Investigations of Steel Corrosion in Acid media in the presence of Thiophene Derivatives. Int. J. Electrochem. Sci, 2016. 11: p. 7343-7358.

99. Khaled F. Khaled, et al., L-Arginine as Corrosion and Scale Inhibitor of Steel in Synthetic Reservoir Water. International Journal of Electrochemical Science, 2016. 11: p. 2433-2446.

100. Khaled F. Khaled, N. Al-Nofai, and N. Abdel-Shafi, QSAR of corrosion inhibitors by genetic function approximation, neural network and

molecular dynamics simulation methods. Journal of Materials and Environmental Science, 2016. 7(6): p. 2121-2136.

101. Khaled F. Khaled and A. El-Sherik, Validation of a Predictive Model for Corrosion inhibition of API 5L X60 Steel in Chloride Solution. International Journal of Electrochemical Science, 2016. 11(3): p. 2377-2391.

102. Krim, O., Khaled F. Khaled et al., Synthesis, Characterization and Corrosion Protection Properties of Imidazole Derivatives on Mild Steel in 1.0 M HCl. Portugaliae Electrochimica Acta, 2016. 34(3): p. 213-229.

103. Abdelshafi, N., Khaled F. Khaled et al., Creation and use of an iBook as well as chemistry videos to improve student learning experiences in general chemistry Laboratory. Moroccan Journal of Chemistry, 2017. 5(3): p. 417-424.

104. El-Bagoury, N. and Khaled F. Khaled, Microstructure and corrosion behaviour of NiTiCo shape memory alloys under various aging conditions. Moroccan Journal of Chemistry, 2017. 5(3): p. 438-445.

105. Taiwo W. Quadri, Lukman O. Olasunkanmi, Omolola E. Fayemi, Ekemini D. Akpan, Chandrabhan Verma, El-Sayed M. Sherif, Khaled F. Khaled, Eno E. Ebenso Quantitative structure activity relationship and artificial neural network as vital tools in predicting coordination capabilities of organic compounds with metal surface: A review, Coordination Chemistry Reviews 446 (2021) 214101.

106. M. A. M. El-Mansy, A. Suvitha, W. Osman, Khaled F. Khaled, Exploring the electronic and optical absorption properties for homo- and hetero-pyrrole-graphene quantum dots, Journal of Computational Electronics (2021) In press

Conferences

I have participated in the following conferences as an **active participant**:

1. 16th Annual Conference " Corrosion problems in industry" December, 9-11 1997., Helnan Regina Hotel, Hurghada.
2. 6th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry 13-16 December, 1997.
3. The Second International Conferences on Ancient Mining and Metallurgy & conservation of metals, Cairo, 14-16 April, 1998.
4. 15th International Conference on Chemical Education " Chemistry & Global Environmental Changes" Cairo, 9-14 August 1998.
5. 2nd International Conference on Electrochemistry and its Applications " ICE-2" 2-4 Feb. 1999, Luxor- Egypt.
6. 7th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry 25-28 March, 2000.
7. Corrosion Science in the 21st Century, 2003 Manchester, UK.
8. EuroCorr 2003, September 2003 Budapest Hungry
9. Chem03 , Chemistry for better future, March 2004, Cairo , Egypt.
10. Quality Assurance and Accreditation in higher education: pathway to the future 16th Jan., 07, Cairo Egypt
11. Chemistry Conference, Tiba University, Madina, Kingdom of Saudi Arabia, March 2009.
12. Science Conference, Tibah University, Madina, Kingdom of Saudi Arabia, March 2010

13. International conference on advances in sustainability of Materials and environment, 10-11 April 2014. India
14. Science Conference . King Khaled University, Abha, Kingdom of Saudi Arabia, April 2014.
15. LabTech Laboratory Technology Conference , Bahrain, 28-30 October 2014.
16. Annual Conference of Faculty of Education" Academic, Professional Skills and Teacher Preparation" Cairo, September 1-3, 2018.
17. 10^{th} National Meeting of Electrochemistry (RNE10) in Fez Morocco, April 18-19, 2019

Curriculum Vitae

Professional Work Experience:

2013- Work as **Professor**, Chemistry Department, Faculty of Education, Ain Shams University, Cairo, Egypt

2007- 2013 Work as **Associate professor**, Chemistry Department, Faculty of Education, Ain Shams University, Cairo, Egypt.

2002-2004 work as Welch post doc fellow, Rice University, Houston, Texas

2001-2006 work as a **Lecturer of physical chemistry**, Ain Shams University, Cairo, Egypt.

1999-2001 Visiting student at Rice University, Houston, Texas, USA.

1994-1998 work as a Demonstrator in Faculty of Education - Ain Shams University Roxy, Cairo, Egypt.

Referee in the following scientific journals

1. Applied Surface Science
2. Electrochemica Acta
3. Corrosion Science
4. Materials Chemistry & Physics
5. Journal of Applied Electrochemistry
6. Journal of The Electrochemical Society
7. Arabian Journal of Chemistry
8. Journal of Materials and Environmental Science

Curriculum Vitae

Associate Editor in the following journals scientific journals

1. Journal of Materials and Environmental Science
2. Global Journal of Analytical Chemistry

- **Editor in the following journals scientific journals**

1- Journal of Chemica Acta

2- Advances in Materials and Corrosion

Curriculum Vitae

Skills

- **Technical:**

I have good experience in using different techniques like: electrochemical techniques both dc and ac. in addition to different spectroscopic techniques.

I pass training in the following fields:

1. Corrosion problems in industry.
2. Water treatment in Industry.
3. Full course in Computer Science.
4. I have ICDL " International Computer deriver license"
5. I passed a 108 Contact hours in "**ETLS**" (English For Teachers In Language Schools" in AUC in EGYPT
6. I attend several workshops about development of abilities of faculties in universities.
7. I attend several workshops on strategic planning
8. I'm an instructor for different training programs on using computational tools in scientific research and education.
9. I'm instructor for EndNote Reference Software
10. I'm instructor for Blackboard Learning Management System.
11. I'm Designer for e-books distributed by Apple Inc. 11-ibooks
12. Expert in Learning Management System and online Exams.

- # Information Technology:

I have extensive experience in dealing with electronics and hardware of computers and most kinds of chemistry software packages as Materials Studio, Hyperchem, Chemoffice, Gaussian, Chemwind, Isis draw,…etc . I am proficient with a variety of word processing, graphing , web design and spreadsheet packages including: Microsoft office, SigmaPlot, Grapher, Origin, Harvard Graphics and Excel. I have set up my own MSC., PhD research. I have good experience in dealing with Internet and designing web sites. I have established an IT group at faculty of education.

• Projects

1. Corrosion inhibition of iron using organic/inorganic inhibitors Grant C-0426 , Welch Foundation – Rice University, Houston , Texas, USA , 1998-2001.
2. Electrochemical processes at Electrode/Electrolyte Interface, Grant C-0426, Welch Foundation – Rice University, Houston, Texas, USA, 2002-2005.
3. I am a member of management team in FOEP project entitled "Development of environmental awareness through the future teachers in Egypt"
4. I am a member of implementation team in several FOEP and HEEPF projects in Faculty of Education Ain shams University include: 2007
5. Higher studies enhancement Project 2006
6. Education of Space and Earth Sciences Using Advanced Information Technology project 2006
7. Utilizing of mechanical, chemical, electrochemical, photoelectrochemical and nanotechnology for anti-corrosion of copper and some of its alloys in some aqueous media (Taif University, 2008, # 1-429-134, Co-PI)
8. Experimental and theoretical studies on the effect of surfactants adsorption phenomena on corrosion inhibition in petroleum industry (Taif University - 2009, # 1-430-397, PI)
9. Designing New Corrosion Inhibitors by QSAR and Molecular Dynamics Approaches (CENTER OF RESEARCH EXCELLENCE IN CORROSION ,King Fahd University 2010, # CR-03-2010, PI)
10. Understanding corrosion inhibition: study of corrosion inhibition of iron using furan derivatives by non-conventional methods, Taif University, 2010, # 1-431-713, PI.
11. Development of a new corrosion protection strategy for water-ammonia refrigerating systems, King Abdulaziz City for science and technology, 2010, #AR-3066, PI.

12. Spectral, thermal and Inhibition studies for some transition metal element with some thiosemicarbazide and thiosemicarbazone derivatives and their metal complexes prepared by the electrochemical method; Taif University, 2010, # 1-431-636, PI.
13. Innovative methods for corrosion protection of refrigerating systems, Taif University, 2011, # 1-432-1090, PI.
14. Understanding Corrosion Inhibition: A Surface Science Study of Thiophene Derivatives on Iron Surfaces, Taif University, 2011, # 1-432-1128, PI.
15. Using Multivariate Neural-Network Analysis and Genetic Function Approximation methods to design new corrosion inhibitors for petroleum industry, Saudi Aramco, 2011, PI.
16. Copper (II) complexes of benzimidazole and pyridine derivatives with superoxide scavenging and pharmacological activities (Taif University, 2011, # 1-431-, Co-PI)
17. Preparation of some ferromagnetic materials in range of micro to nanoparticles using ceramic method and milling for solving the problem of sulfide polluted air ((Taif University, 2011-2015, # 1-429-117 , Co-PI)
18. Development of novel environmentally acceptable corrosion inhibitors and antiscalents by dry and wet laboratory studies, King Abdulaziz City for science and technology, 2016, #AT-32-7, PI.

Curriculum Vitae

Booklets

I'm a coauthor for the following booklets

Environmental Health and Safety in chemical Laboratory.

Environmental Health and Safety in Medical and Biological Laboratory.

Poisons and Fires

First Aid procedures

Limits of exposure to hazard chemicals

Books

I am an author for the following series: (11 Books) from 2012-2016

1- Series titled " Chemistry Lecture Notes"
   - Nuclear Chemistry Lecture Notes
   - Electrochemistry lecture Notes
   - Chemical Kinetics Lecture notes
   - Chemistry Laboratory lecture Notes – Inorganic Qualitative Analysis
   - Chemistry Laboratory lecture Notes – Volumetric Analysis
   - Funny Chemistry experiments

2- Series titled" Corrosion Science Made Easy"
   - Volume 1 – Introduction
   - Volume 2 – Thermodynamics
   - Volume 3 – Kinetics
   - Volume 4- Forms of Corrosion – I
   - Volume 5 – Forms of Corrosion – II
   - Volume 6 – Protection of Corrosion

- **Founder of Khaled Academy on Youtube**
- **https://www.youtube.com/channel/UCxKBh6Bl_KeoHA2_hKNJ-cw**
-
- **Referees: Available on request.**
- **http://www.jchemacta.com/upload/khaled.html**