

Curriculum Vitae

Name: Khaled Fouad Khaled Mahmoud **الاسم:** خالد فؤاد خالد محمود
Place of Birth: Fayoum **محل الميلاد:** الفيوم
Date of Birth: 9th February 1973 **تاريخ الميلاد:** 9 فبراير 1973
Nationality: Egyptian **الجنسية:** مصري
Address: Chemistry Department- Faculty of **العنوان:** قسم الكيمياء - كلية التربية -
Education- Ain Shams University- Roxy- Cairo - جامعة عين شمس - روكسي - القاهرة
Egypt - مصر
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Languages: Arabic& English

Academic Education

- Bachelor of Science and Education (Physics-Chemistry) June 1994, Very Good with honor, Faculty of Education, Ain Shams University
- General Diploma for teacher preparation in science (Chemistry) May, 1995 , Very Good, Faculty of Education, Ain Shams University
- Special Diploma for teacher preparation in science (Physical Chemistry) September , 1996 , Very Good, Faculty of Education, Ain Shams University
- Master of teacher preparation in science (Chemistry) 1998 , Excellent, Faculty of Education, Ain Shams University
- PhD of teacher preparation in science (Physical Chemistry) 2001 , Excellent, Faculty of Education, Ain Shams University

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.

Professional work Experience

- **Teaching Assistant in the Chemistry Department, Faculty of Education – Ain Shams University on 11-02-1995**
- **Assistant Lecturer in the Chemistry Department, Faculty of Education – Ain Shams University from 01-08-1998**
- **Lecturer in the Chemistry Department, Faculty of Education – Ain Shams University from 28-01-2002**
- **Assistant Professor in the Chemistry Department, Faculty of Education – Ain Shams University from 20-01-2007**
- **Professor in the Chemistry Department, Faculty of Education – Ain Shams University from 23-10-2014 to present**

Scholarships, Study Leaves, and Scientific Missions •

- Internal joint supervision scholarship from 14/11/1998 to 13/05/1999 , USA
- Travel to begin the external part of the PhD dissertation at Rice University, USA, from 14/05/1999 to 09/12/2001
- Scientific mission in the USA from 24/09/2002 to 25/04/2004, Rice University
- Special leave in Libya from 24/09/2005 to 07/12/2005, 7th April University
- Secondment for work in Libya from 08/12/2005 to 05/08/2006, 7th April University
- Secondment for work at Taif University, Saudi Arabia, from 01/09/2007 to 11/06/2014

• Conferences

1. 16th Annual Conference “Corrosion problems in industry”
December, 9-11 1997., Helnan Regina Hotel, Hurghada. (Oral Presentation)
2. 6th Ibn Sina International Conference on Pure and Applied
Heterocyclic Chemistry 13-16 December 1997. (Poster Presentation)
3. The Second International Conferences on Ancient Mining and
Metallurgy & conservation of metals, Cairo, 14-16 April 1998. (Oral
Presentation)
4. 15th International Conference on Chemical Education “Chemistry &
Global Environmental Changes” Cairo, 9-14 August 1998. (poster)
5. 2nd International Conference on Electrochemistry and its
Applications “ ICE-2” 2-4 Feb. 1999, Luxor- Egypt. (Oral Presentation)

6. 7th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry 25-28 March 2000. **(Oral Presentation)**
7. Corrosion Science in the 21st Century, 2003 Manchester, UK. **(poster)**
8. EuroCorr 2003, September 2003 Budapest Hungary, **(poster)**
9. Chem03, Biannual Conference on Chemistry "Chemistry for better future", March 2004, Cairo, Egypt. **(Oral Presentation)**
10. Quality Assurance and Accreditation in higher education: pathway to the future 16th Jan. 2007, Cairo Egypt **(Participant)**
11. The First Conference on Research for Development Organized by Ain Shams University, March 25-27, 2007 **(Organizing Team, Chairman, Participant)**
12. Chemistry Conference, Tibah University, Madina, Kingdom of Saudi Arabia, March 23-25, 2009. **(Oral Presentation)**
13. Science Conference, Tibah University, Madina, Kingdom of Saudi Arabia, March 21-24, 2010. **(Oral Presentation)**
14. International conference on advances in sustainability of Materials and environment, 10-11 April 2014. India **(Keynote Speaker)**
15. 5th International Chemistry Conference. King Khaled University, Abha, Kingdom of Saudi Arabia, April 27th, 2014. **(Oral Presentation)**
16. LabTech Laboratory Technology Conference, Bahrain, 28-30 October 2014 **(Oral Presentation)**
17. Annual Conference of Faculty of Education "Towards Better Model" Magawish village Hurghada , October, 23-27, 2017, **(Oral Presentation)**
18. Annual Conference of Faculty of Education" Academic, Professional Skills and Teacher Preparation" Cairo, September 1-3, 2018., **(Oral Presentation)**
19. 10th Electrochemistry Conference April 18-19, 2019 IFRA- MOROCO **(Keynote Speaker)**

- **Scientific Societies and Organizations
Affiliated with, Both Nationally and
Internationally**

Member in the following professional communities

- 1- **National Association of Corrosion Engineers (NACE) Houston - Texas -USA.**
- 2- **Egyptian scientific syndicates.**
- 3- **Saudi Chemical Society**
- 4- **Egyptian Electrochemical Society.**

Referee in the following scientific journals

1. **Applied Surface Science**
2. **Electrochimica 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**

Associate Editor in the following 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**

• **Research Projects**

باحث رئيسي: (PI)

باحث مشترك CO-PI (:

1. Corrosion inhibition of iron using organic/inorganic inhibitors Grant C-0426, Welch Foundation – Rice University, Houston , Texas, USA , 1998-2001. (**CO-PI**)
2. Electrochemical processes at Electrode/Electrolyte Interface, Grant C-0426, Welch Foundation – Rice University, Houston, Texas, USA, 2002-2005. (**PI**)
3. I am a member of management team in FOEP project entitled “Development of environmental awareness through the future teachers in Egypt” (**CO-PI**)
4. I am a member of implementation team in several FOEP and HEEPF projects in Faculty of Education Ain shams University include:
 - Higher studies enhancement Project 2006.
 - Education of Space and Earth Sciences Using Advanced Information Technology project 2006.
5. 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**)
6. Experimental and theoretical studies on the effect of surfactants adsorption phenomena on corrosion inhibition in petroleum industry (Taif University - 2009, # 1-430-397, **PI**)

7. Designing New Corrosion Inhibitors by QSAR and Molecular Dynamics Approaches (CENTER OF RESEARCH EXCELLENCE IN CORROSION, King Fahd University 2010, # CR-03-2010, **PI**)
8. Understanding corrosion inhibition: study of corrosion inhibition of iron using furan derivatives by non-conventional methods, Taif University, 2010, # 1-431-713, **PI**.
9. Development of a new corrosion protection strategy for water-ammonia refrigerating systems, King Abdulaziz City for science and technology, 2010, #AR-3066, **PI**.
10. 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**.
11. Innovative methods for corrosion protection of refrigerating systems, Taif University, 2011, # 1-432-1090, **PI**.
12. Understanding Corrosion Inhibition: A Surface Science Study of Thiophene Derivatives on Iron Surfaces, Taif University, 2011, # 1-432-1128, **PI**.
13. Using Multivariate Neural-Network Analysis and Genetic Function Approximation methods to design new corrosion inhibitors for petroleum industry, Saudi Aramco, 2011, **PI**.
14. Copper (II) complexes of benzimidazole and pyridine derivatives with superoxide scavenging and pharmacological activities (Taif University, 2011, # 1-431-, **Co-PI**)
15. 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, # 1-429-117, **Co-PI**)
16. Microstructure evolution and corrosion resistance of NiTi shape memory alloys under various aging conditions (Taif University, 2017, # 1-437-4758 , **Co-PI**)

17. Establishment of an interactive chemistry laboratory using multimedia
(Hail University, 2016, # 0150194; Co-PI)

Forms of Scientific and National Recognition, Both Domestically and Internationally

Scientific Awards and Recognitions

International 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.

Regional Awards:

- 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.

Local and University Awards:

- 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)
- 14- Ain Shams University Appreciation Prize in the field of Basic Sciences.

Recognition from External Institutions (Outside the University):

- 15- Ministry of Higher education, June 2010.
- 16- Academy of scientific research and Technology 2010
- 17- National Research Center, Egypt. 2010.
- 18- Faculty of Science Taif University. KSA
- 19- Dean of student affairs, Taif University, KSA.
- 20- E-learning & Distance Education Deanship, Taif University, KSA
- 21- Development and training center, Princess Nora bint Abdelrahman University, KSA
- 22- Faculty of Science, 7th October University, Libya, 2006
- 23- Al Akhawayn University, Morocco, IFRANE, April 2018

Published Research (International Scientific Publications)

The total scientific output comprises 109 research papers published in ISI and Scopus-
indexed journals, as reflected in Scopus Profile ID: 7003878194. The H-index exceeds
50 (H-index > 50). *

List of Scientific Publications (109 Research Papers)

1. Abd El Rehim, S. and **Khaled F. Khaled**, *Corrosion inhibition and adsorption behaviour of 4-aminoantipyrine on mild steel in H₂SO₄*. 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 M H_2SO_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-dithiocarbamate (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 M H₂SO₄*. 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 HNO₃*. *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. Fadel-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 O₂-saturated H₂SO₄ 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).
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