



South Valley University
Qena, Egypt.



CURRICULUM VITAE

NAME: Mortaga Mohamed Mustafa Abou-Krishna

SURNAME: Abou-Krishna

DATE OF BIRTH: 6/2/1960

SEX: Male

MARIETAL STATUS: Married with three children

CITIZENSHIP: Egyptian.

ADDRESS:

Work: Dept. of Chemistry, Faculty of Science, South Valley University,
Qena 83523, Egypt.

HIGHEST DEGREE: Ph. D. in Chemistry.

ACADEMIC FIELD: Physical Chemistry.

Electrodeposition, Electroanalytical (Stripping analysis), Nanodeposit, Alloys,
Corrosion, Passivation, Cyclic Voltammetry,

CURRENT POSITIONS:

- (1) Professor of Physical Chemistry- Department of Chemistry, Faculty of Science, South Valley University, Qena 83523, Egypt.
- (2) Professor of Physical Chemistry- College of Science, Chemistry Department, Al Imam Mohammad Ibn Saud Islamic University, Riyadh 11623, KSA.

ACADEMIC BACKGROUND:

1. B. Sc. (Chemistry), Assiut University, Qena, Egypt 1982.
2. M. Sc. (Chemistry), Assiut University, Qena, Egypt, 1987.
3. Ph. D. (Chemistry), Assiut University, Qena, Egypt, 1992.

PREVIOUS PROFESSIONAL POSITIONS:

- (1) *Demonstrator, Dept. Chemistry at Qena, 1984- 1987.*
- (2) *Assistant lecturer, same Dept., 1987- 1992.*
- (3) *Lecturer, Dept. Chemistry at Qena, 1992-1995.*
- (4) *Lecturer, Dept. Chemistry at Qena, 1998 to 2006.*
- (5) *Assistant Prof. of Physical Chemistry- Department of Chemistry, 2006.*
- (6) *Prof. of Physical Chemistry- Department of Chemistry, 2012.*
- (7) *Manager of the analytical branch in Central Lab., Qena, 1999-2005.*
- (8) *Member of the research group of solar energy utilization project. South Valley University, Qena, 1/7/2000 to 1/7/2002.*
- (9) *Manager of the Center for Environmental Research and Applied Sciences, 2001 -2004 and from 2006-2007.*
- (10) *Manager of the Solar Energy Utilization Project. South Valley University, Qena, 1/1/2002 to 1/7/2002.*
- (11) *Manager of Science Club, South Valley University at Qena, (1999 – 2001).*
- (12) *Treasurer of the Egyptian Society of Electrochemistry, Qena, Egypt, 1999 to 2006.*

- (13) *Headed the Quality group in chemistry Department, faculty of Science, Qena (2011-2012).*
- (14) *Lecturer, Dept. Pharmaceutical Chemistry, Faculty of Pharmacy, Al-Arab Medical University, Benghazi, Libya, 1995-1998.*
- *Teaching analytical chemistry for different level students in the Faculty of Pharmacy.*
 - *Headed the scientific committee for the academic year (97-98) and member of the committee for two academic years (95-97), organizing lectures for the staff members, in addition to student's scientific activities, scientific day and graduation projects.*
 - *Member of the control committee since 1995.*
 - *External examiner at Faculty of Pharmacy, Great Al-Fateh Medical Sciences University, Tripoli, Libya, since 1996 for the following subjects:-*
Analytical chemistry - Quality control - Quality assurance.
- (15) *Assistant Prof., Dept. Chemistry, Faculty of Education, Misrata University, Bany Walid, Libya, 2007 -2011.*
- *Teaching Physical and analytical chemistry for different level students in the Faculty of Education.*
 - *Headed the Department from 2010-2011.*

PROJECTS:

- (1) *Utilizing solar energy in desert land reclamation inside the University campus. Short title: Solar Energy Project (SEP).*
- (2) *Increasing the corrosion resistance of steel by electrodepositing of Nano-alloys particles. Presented to College of Science, Chemistry Department, Al Imam Mohammad Ibn Saud Islamic University, Riyadh 11623, KSA.*

OTHER ACTIVITIES:

- 1- *Participated in the 1st workshop, 1994, Faculty of Science, Sohag, Assiut University.*
- 2- *Participation in the preparing and organizing committee of the 1st work shop on environmental protection and development, 1995, Aluminum Company, Nag Hamady, Egypt*
- 3- *Participation in the preparing committee of the 1st international conference on electrochemistry and its applications, South valley University, 1996, Luxor, Egypt.*
- 4- *Supervisor of University Student Union- Social Activity Committee- the year 98/ 99.*
- 5- *Participation in the preparing and organizing committee of the 2nd international conference on electrochemistry and its applications, South valley University, 1998, Luxor, Egypt.*
- 6- *Preparing, writing and organizing the scientific material and lecturer of the 1st training course in HPLC, 16- 18 November 1999, Central Lab., Qena.*
- 7- *Participated in the training program for (Atomic Absorption and Instrumental Analysis for Environmental Research) held from the 27-4-1999 to 29-4-1999 at the center for environmental research and applied science in Qena.*
- 8- *Participated in the 2nd Egyptian National Student Unions (26- 29/ 2/2000).*
- 9- *Participation in the organizing committee of the Meeting on "Environmental pollution and its effect on development". The meeting was held in the University in the 27th to 28th of March, 2000 by the Social Fund Office in Qena.*

10- Participated in the 2nd international conference of pure, applied and environmental chemistry, 17-19/4/2000, Yarmouk University, Irbid, Jordan and presented lecture (oral presentation).

11- Participation in the preparing and organizing committee of the 3rd international conference on electrochemistry and its applications, South valley University, 2001, Luxor, Egypt.

12- Participated in the 3rd international conference of hydrometallurgy for new millenium, Slovakia, Kosice - Herlany, May 22-25, 2001 and presented lecture (oral presentation).

13- Participated in the 5th international conference of society Alexander von Humboldt Foundation, Poland, Wroclaw, 22-24/6/2001.

14- I performed six-month scientific research as a post-doctoral fellowship in my research group in Jagiellonian University, Faculty of Chemistry, Poland from February until August 2001. The research project was entitled the hydrometallurgical processing of industrial metallic wastes and concerned on so called foaming slugs from the zinc-lead industry.

15- I visited lab. of electrochemistry of mineral system in institute of catalysis and surface chemistry (Polish academy of science) as a post – doctoral fellow from July 1st until August 17th, 2001. During that time I participated in a project running currently in this lab. The title of the project was characterization of natural pyrite electrodes by impedance spectroscopy and concerned the problem of contamination of the environment by metal ions liberated by metal sulfides corroding on the nature.

16- Participated in the training program for (SEM and XRF) held from the 2/9/2002 to 11/9/2002 at the Jeol LTD., Tokyo, Japan.

17- Participated in the 2nd International conference on chemistry and its applications, Qatar, 6-9 December 2003.

18- Participation in the preparing and organizing committee of the 4th International conference on electrochemistry, South valley University, 2004, Aswan, Egypt.

19- External examiner at Faculty of Pharmacy, Great Al-Fateh Medical Sciences University, Tripoli, Libya, 1996, 1997, 2005 and 2006 for the following subjects:-

Analytical chemistry - Quality control - Quality assurance.

20- External examiner at Faculty of Pharmacy, Dept. Pharmaceutical Chemistry, Al-Arab Medical University, Benghazi, Libya, 2003 and 2004 for the following subjects:-

Analytical chemistry - Quality control - Quality assurance.

21- Head of the trustee's board of some of primary schools in Qena, Egypt [2004-2005].

22- Participated in the training program for Faculty and Leadership Development Project FLDP, about the Code of Professional Ethics for Academic Staff, 2005.

23- Participated in the training program for Faculty and Leadership Development Project FLDP, about Selective Subjects for teaching, 2005.

24- Participated in the training program for Faculty and Leadership Development Project FLDP, about Credit hours, 2005.

25- Referee in Anti-Corrosion Methods and Materials, Coating Technology Journal and Applied Surface Science Journal.

- 26- Supervisor in the "National Institute for leadership" of students and assistant lecturers in the South Valley University, several years.
- 27- Lecturer and computer trainer in the project of Training University graduates on Information Technology and Microsoft office group programs.
- 28- Lecturer and computer trainer in the project of Training University Professors, Assistant Professors, Lecturers, Assistant Lecturers and Demonstrates on Information Technology and Microsoft office group programs.
- 29- Supervisor of "the Faculty of Science" Student Union- Social Activity Committee (different years).
- 30- Participation in the preparing and organizing committee of the fifth international conference on electrochemistry and its applications, South valley University, 2006, Luxor, Egypt.
- 31- Participated as a lecturer in 'Workshop on activating the role of the government and the executive institution in reducing the River Nile Pollution' in Idfu, Kom Imbo and Aswan cities, through the project prepared by Environmental Union Federation in Aswan and the NGO Service Center, 2004.
- 32- Lecturer and computer trainer of Information Technology and Microsoft office group programs through Graduates Training Program supported by the Arab Academy for Sciences and Technology in cooperation with the Ministry of Communication and Information Technology at Women's Health Improvement Association from 2000-2005.
- 33- Participated as a lecturer in 'Workshop on Corrosion and Cathodic Protection' in General Company of Oil, 25-2-2007, Qena, Egypt.
- 34- Head of the Chemistry Department, during summer holiday 2007, Faculty of Science, Qena, Egypt.
- 35- Participated in the E-content training program prepared by Microsoft company, 2007.
- 36- Head of committee of the selection of patent to select the best patent prepared by the different science clubs in Qena city.
- 37- I Visited Institute of Physical Chemistry and Electrochemistry, Leibniz University Hannover, Germany, as a 2-months research stay covered by the DFG grant. During this time I participated in a project of (Impedance measurements at dye-sensitized solar cells based on electrodeposited nanoporous ZnO films) carried out in collaboration with Dr Torsten Oekermann.
- 38- Attendance of the meeting in how to search within sites of Scientific Publications
- 39- Arbitrator for young inventors made by science clubs.
- 40- The prize of scientific publication in 2011 and 2012.
- 41- Attendance: The second workshop for the identification of research priorities in the field of narcotics prevention.
- 42- The prize of scientific publication in 2015 and 2016, Al Imam Mohammad Ibn Saud Islamic University, Riyadh 11623, KSA.

List of publications

- 1-A study of the electrochemical reduction of cyclic ketones.
Hesham Mansour, Mahamed A. Ghandour, Gaber A. Noubi and **Mortaga M. Mostafa**
J. Electrochem. Soc. India. 36-1 (1987) 15.

- 2-The role of chemical structure and the medium in the reducibility of some aromatic aldehydes.
Hesham Mansour, Mahmoud A. Ghandour, Moustafa H. M. Abu-El-Wafa and **Mortaga M. Moustafa**
Pakistan J. Sci. Ind. Res., 31, 2 (1988) 90.
- 3-Conductance measurements in corrosion and inhibition of Al and Al-Mn alloy.
Fathla M. El-Cheikh, Fawzi H. Assaf, Mahmoud Khodari, Mahmoud A. Ghandour and **Mortaga M. Abou Krisha**
Bull. Chem. Soc. Jpn., 67 (1994) 2286.
- 4-Determination of Ag (I) with chemically modified carbon paste electrode based on 2, 3 -Dicyano 1, 4 -Naphthoquinone.
Mahmoud Khodari, **Mortaga M. Abou-krisha** and Ragab Fandy
Talanta, 41, 12 (1994) 2179.
- 5-Anodic and cathodic behaviour of α -brass in Na₂SO₄ solutions.
S. S. Abd-El-Rehim, F. H. Assaf, A. El-Sayd, **M. M. Abou-Krisha** and A. M. Zaky
Materials Transactions JIM, 36, 6 (1995) 771.
- 6-Selective removal of lead from polymetallic alloys.
Mortaga M. Abou-Krisha and Marian Jaskula
Acta Metallurgica Slovaca, 4 (2001) 9.
- 7-Factors affecting dissolution resistance of AC anodized Al in sodium carbonate solution.
Mortaga M. Abou-Krisha
Abhath Al-Yarmouk Journal, Basic Sci. & Eng., 10 (2001) 323.
- 8-Stripping voltammetric and conductance measurements on corrosion and inhibition of copper in nitric acid.
Mahmoud Khodari, **Mortaga M. Abou-Krisha**, Fawzi H. Assaf, Fathla M. El-Cheik and A. A. Hussien
Materials Chemistry and Physics, 71(2001) 279.
- 9-Synthesis and spectroscopic characterization of some mixed ligand complexes of Co(II), Ni(II) and Cu(II). Part I.
M. M. El-Ajaily, A. A. Maihub, Abdelgader I. Salem and **M. Abou-Krisha**
Jerash for Research and Studies Journal, 6 (2002) 7.
- 10-Studies on dissolution and inhibition of copper in nitric acid using stripping voltammetry and conductance measurements.
Fawzi H. Assaf, **Mortaga M. Abou-Krisha**, Mahmoud Khodari, Fathla M. El-Cheik and A. A. Hussien
Materials Chemistry and Physics, 77 (2002)192.
- 11-Synthesis and characterization of some homodinuclear mixed ligand complexes of Co(II) and Cu(II) PART-II.
A. .A. Maihub, M.M. El-ajaily, **M. Abou-Krisha** and A.I. Salem
Jerash for Research and Studies Journal, 7 (2003) 41.
- 12-Studies on the electrochemical behaviour of Al-Ni alloys in alkaline solutions.
Fawzi H. Assaf, **Mortaga M. Abou-Krisha**, A. M. Zaky, Fathla M. El-Cheik and E. Magraphy
Afinidad Journal, 503 (2003) 100.
- 13-Charge-Transfer Complexes of Mercaptobenzimidazoles with σ - and π -Electron Acceptors.

- H.M.A. Salman, **M.M. Abu-Krishna** and H.S. El-Sheshtawy
Can. J. Anal. Sci. Spectrosc., 49 (2004) 282.
- 14- Electrochemical studies of zinc-nickel codeposition in sulphate bath.
Mortaga M. Abou-Krishna
Applied Surface Science Journal, 252 (2005) 1035.
- 15-Morphology, composition and corrosion properties of electrodeposited Zn-Ni alloys from sulphate electrolytes.
M. M. Abou-Krishna, A. M. Zaky and A. A. Toghan
Asian Journal of Biochemistry, 1 (2006) 84.
- 16-Synthesis and characterization of iron(III)-benzoin complex.
M. M. El-ajaily, A. A. Maihub , M. A. Abuzwida , **M. M. Abou-Krishna** , A. A. Amar and E. A. Asaih
Asian Journal of Chemistry, Vol. 19, No. 1(2007), 781-783.
- 17-Electrodeposition of Zn-Ni alloys from sulfate bath.
M. M. Abou-Krishna, F. H. Assaf and A. A. Toghan
Solid State of Electrochemistry Journal, 11 (2007) 244-252.
- 18-The synergistic inhibitive effect and the thermodynamic parameters of 2 (2-hydroxylstyryl) pyridinium-N- ethyl iodide and some metal cations on the acid corrosion of low-carbon steel.
F.H. Assaf, **M. Abou-Krish**, A.S.El-Shahawy, M.Th. Makhoulouf and Hala Soudy
Int. J. Electrochem. Sci., 2 (2007) 169 - 181
- 19-Stripping Voltammetric, Conductance and Anodic Linear Polarization Analysis on Dissolution of Electrodeposited Zinc-Cobalt Alloy.
M. M. Abou-krishna and A. M. Abushoffa
Int. J. Electrochem. Sci., 2 (2007) 418 – 432.
- 20-Electrochemical studies on the electrodeposited Zn-Ni-Co ternary alloy in different media.
M. M. Abou-Krishna, H. M. Rageh and E. A. Matter
Surface and Coatings Technology, 15 (2008) 3739-3746.
- 21- Electrodeposition and characterization of zinc–nickel–iron alloy from sulfate bath: influence of plating bath temperature
M. M. Abou-Krishna, F. H. Assaf and S. A. El-Naby
Journal of Solid State Electrochemistry, 13 (2009) 879-885.
- 22- Electrodeposition behavior of zinc–nickel–iron alloys from sulfate bath
M. M. Abou-Krishna, F. H. Assaf and S. A. El-Naby
Journal of Coatings Technology and Research, 6, (2009) 391-399.
- 23- Influence of Ni^{2+} concentration and deposition potential on the characterization of thin electrodeposited Zn–Ni–Co coatings.
M. M. Abou-Krishna
Materials Chemistry and Physics 125 (2011) 621–627
- 24- Effect of pH and Current Density on the Electrodeposition of Zn-Ni-Fe Alloys from Sulfate Bath.
M. M. Abou-Krishna
J. Coat. Technol. Res., November 2012, Volume 9, [Issue 6](#), pp 775-783
- 25- The influence of Fe^{2+} concentration and deposition time on the corrosion resistance of the electrodeposited zinc-nickel-iron alloys
M. M. Abou-Krishna, F. H. Assaf and S. A. El-Naby
Arabian Journal of Chemistry, 2012, <http://dx.doi.org/10.1016/j.arabjic.2012.02.014>
- 26- Corrosion resistance and electrodeposition behavior of electrodeposited nickel-cobalt-iron alloys

- M.M. Abou-Krishna**, F.H. Assaf, M. Khodari, E.M. Elkady
Anti-Corrosion Methods and Materials, 2012, 59/4 (2012) 170–177
- 27- Schiff base derived from phenylenediamine and salicylaldehyde as precursor techniques in Coordination Chemistry
 M. M. El-ajaily, **M. M. Abou-Krishna**, A. M. Etorki, F. S. Alassbaly and A. A. Maihub
Journal of Chemical and Pharmaceutical Research, 2013, 5(12):933-938
- 28- The Role of Aromatic Schiff Bases in the Dyes Techniques
 Karema Masoude Abuamer, Abdussalam Ali Maihub, Marei Miloud El-Ajaily, Abdunnaser Mohamed Etorki, **Mortaga Mohamed Abou-Krishna**, Majda Albashir Almagani
International Journal of Organic Chemistry, 2014, 4, 7-15
- 29- Schiff Base Derived from p-Nitrobenzaldehyde and 1,8-Naphthalenediamine Precursor in Metal Ions Uptake
 Abdussalam Ali Maihub, Abdunnaser Mohamed Etorki, Salah Mosbah Ben-Saber, Marei Meiloud El-ajaily and **Motraga Mohamed Abou-Krishna**
Journal of Chemistry and Chemical Engineering. 8 (2014) 226-231
- 30- Influence of pH on the Composition, Morphology and Corrosion Resistance of Zn-Ni-Mn Alloy Films Synthesized by Electrodeposition
Mortaga M. Abou-Krishna, Mohamed I. Attia, Fawzi H. Assaf and Ahmed A. Eissa
Int. J. Electrochem. Sci., 10 (2015) 2972 - 2987
- 31- Electrochemical Behavior and the Detection Limit of Ascorbic Acid on a Pt Modified Electrode
 H. M. Rageh, **M. M. Abou-Krishna**, A. M. Abo-bakr and M. Abd-Elsabour1
Int. J. Electrochem. Sci., 10 (2015) 4105 - 4115
- 32- Electrodeposition and Characterization of Zn-Ni-Mn Alloy from Sulfate Bath: Influence of Current Density
 F. H. Assaf, A. M. A. El-Seidy, **M. M. Abou-Krishna** and A. A. Eissa
Int. J. Electrochem. Sci., 10 (2015) 5465 - 5478
- 33- The Effect Manganese Concentration on the Corrosion Resistance and Physical Properties of Zn-Ni-Mn Alloy Films Produced by Electrodeposition
 Fawzi H. Assaf, **Mortaga M. Abou-Krishna**, Omar k. Alduaij, Ahmed M. A. El-Seidy and Ahmed A. Eissa
Int. J. Electrochem. Sci., 10 (2015) 6273 - 6287
- 34- Electrochemical behavior and corrosion resistance of electrodeposited Nano-particles Zn-Co-Fe alloy
M.M. Abou-Krishna, F.H. Assaf, O. K. Alduaij, A. G. Alshammari and F.A. El-Sheref
Anti-Corrosion Methods and Materials, (2016) Vol. 63 Iss 1 pp. 29 - 35
- 35- Corrosion behavior of electrodeposited Zn–Co–Fe alloy
Mortaga Abou-Krishna, Fawzi Assaf, Omer Alduaij, Abdelrahman Alshammari and Fatma El-Sheref
Indian Journal of Chemical Technology, Vol. 23, July 2016, pp. 271-278.
- 36- Electrochemical behavior of Zn-Co-Fe alloy electrodeposited from a sulfate bath on a various substrate materials
M. M. Abou-Krishna, A. G. Alshammari, F. H. Assaf and F. A. El-Sheref
Arabian Journal of Chemistry, (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).
- 37- Deposition potential influence on the electrodeposition of Zn-Ni-Mn alloy
M.M. Abou-Krishna, O. K. Alduaij, F.H. Assaf and A. A. Eissa

Trans Indian Inst Met, DOI 10.1007/s12666-016-0859-y

38- *Investigating the mechanism of electrodeposition of a Zn-Ni-Mn alloy*

M. M. Abou-Krishna, F. H. Assaf, A. Alshammari, O. Alduaij and A. A. Eissa.

Under press.

39- *Electrochemical behavior and the detection limit of maleic acid at a platinum electrode*

H. M. Rageh, **M. M. Abou-Krishna**, A. M. Abo-bakr and M. Abd-Elsabour

Submitted to Bulletin of the Chemical Society of Ethiopia

40- *Electro-organic synthesis of some new catechol derivatives*

Ahmed M. Abo-bakr, Hesham M. Rageh, **Mortaga M. Abou-Krishna** and Mohamed Abd-Elsabour.

Under press.

41- *Electrodeposition mechanism of Zn-Ni-Mn alloy at different time intervals*

M. M. Abou-Krishna, F. H. Assaf and A. A. Eissa

Under press.

42- *Deposition temperature influence on electrodeposition mechanism of Zn-Co-Fe alloy*

O. K. Alduaij, **M. M. Abou-Krishna** and M. I. Attia

Under press.

Papers Presented in Conferences:

- 1- *Conductance Measurements in corrosion studies of Al. [F. M. El-Cheikh, F. H. Assaf, M. Khodari and M. Abou-Krishna, 1st Int. Conf. in Chemistry and its Applications, University of Qatar, Doha (1993)].*
- 2- *Studies on AC anodizing Al in different electrolytes. [Mortaga M. Abou-Krishna and F. H. Assaf, The second international conference on electrochemistry and its applications, South Valley University, Qena, Egypt (1999)].*
- 3- *Studies on the electrochemical behavior of Al-Ni alloys. [F. H. Assaf, Mortaga M. Abou-Krishna, F. M. El-Cheikh and E. Magraphy, The second international conference on electrochemistry and its applications, South Valley University, Qena, Egypt (1999)].*
- 4- *Factors affecting dissolution resistance of AC anodized Al in sodium carbonate solution. [Mortaga M. Abou-Krishna, 2nd international conference of pure, applied and environmental chemistry, Yarmouk University, Irbid, Jordan (2000) and Accepted for Publication in Abhath Al-Yarmouk Journal, Basic Sci. & Eng., Vol. 10, No. 2A, 2001, pp. 323-336].*
- 5- *Acid dissociation constants of some alkylmercaptobenzazoles mercaptotriazole and mercaptothiazoline in mixed aqueous-organic solvents. [Hassan M. A. Salman, Mortaga M. Abou-Krishna and Nasr M. Rageh, The third international conference on electrochemistry and its applications, South Valley University, Qena, Egypt (2001)].*
- 6- *Selective removal of lead from polymetallic alloys. [Mortaga M. Abou-Krishna and Marian Jaskula, 3rd international conference of hydrometallurgy for new millenium, Slovakia, Kosice-Herlany, May 22-25, 2001, and published in Acta Metallurgica Slovaca, 4(2001)9-15].*
- 7- *Zinc-Cobalt alloy electrodeposition from sulphate baths. [Mortaga M. Abou-Krishna, H. M. Rageh, M. Khodari and Saliem Aly, The third international conference on electrochemistry and its applications, South Valley University, Qena, Egypt (2001)].*

- 8- *Electrochemical studies of Zn-Ni codeposition in sulfate baths.*[Mortaga M. Abou-Krishna, 2nd International conference on chemistry and its applications, Qatar, 6-9 December 2003.].
- 9- *Electrodeposition of zinc-nickel alloy from sulfate baths.* [Mortaga M. Abou-krisha, F. H. Assaf and A. A. Toghan, The fourth international conference on electrochemistry, South Valley University, Aswan, Egypt (16-19 February, 2004)].
- 10- *Morpholgy, composition and corrosion properties of electrodeposition of zinc-nickel alloy from sulfate electrolytes.* [Mortaga M. Abou-krisha, F. H. Assaf and A. A. Toghan, The fourth international conference on electrochemistry, South Valley University, Aswan, Egypt (16-19 February, 2004)].
- 11- *Cyclic voltammetric of zinc-nickel alloys in alkaline media.* [Mortaga M. Abou-krisha, F. H. Assaf and A. A. Toghan, The fourth international conference on electrochemistry, South Valley University, Aswan, Egypt (16-19 February, 2004)].
- 12- *Charge-transfer complexes of mercaptobenzothiazoles with σ - and π -electron acceptor.* [H. M. Salman, Mortaga M. Abou-krisha, M. H. Abu El-Wafa and H. S. El-Sheshtawy, The fourth international conference on electrochemistry, South Valley University, Aswan, Egypt (16-19 February, 2004)].
- 13- *Electrochemical studies of zinc-nickel-cobalt codeposition in sulphate bath.* [Mortaga M. Abou-Krishna, H. Rageh and E. Matter, The fifth international conference on electrochemistry and its applications, South Valley University, Qena, Egypt (2006)].
- 14- *Mn(II) Mixed Ligands Complex of 2-Aminopyridine and Catechol; Preparation, Investigation and The Effect on Seed Germination.* [M. M. Abou-Krishna, F. I. El-moshaty, R. S. El-zweay and M. M. El-ajaily, The 14th Arab Chemistry Conference (ACC-14) Tripoli-Libya (2008)].

The Countries which visited:

| The country | From | To | Activity |
|----------------------|---------------|---------------|---|
| Kingdom Saudi Arabia | 2012 | untill now | Professor of Physical Chemistry- College of Science, Chemistry Department, Al Imam Mohammad Ibn Saud Islamic University, Riyadh 11623, KSA. |
| Libya | 2007 | 2011 | Assistant Prof., Dept. Chemistry, Faculty of Education, Misrata University, Bany Walid, Libya, 2007 -2011. - Teaching Physical and analytical chemistry for different level students in the Faculty of Education. - Headed the Department from 2010-2011. |
| Germany | 21-5- 2007 | 20-7- 2007 | Visited Institute of Physical Chemistry and Electrochemistry, Leibniz University Hannover, Germany, as a 2-months research stay covered by the DFG grant. |
| Qatar | 6-12- 2003 | 9-12- 2003 | Participated in the 2nd International conference on chemistry and its applications, Qatar. |

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|-----------------|------------------|------------------|--|
| <i>Japan</i> | <i>2-9-2002</i> | <i>11-9-2002</i> | <i>Participated in the training program for (SEM and XRF) held at the Jeol LTD., Tokyo, Japan.</i> |
| <i>Poland</i> | <i>18-2-2001</i> | <i>18-8-2001</i> | <i>1- Participated in the 5th international conference of society Alexander von Humboldt Foundation, Poland, Wroclaw, 22-24/6/2001. 2- Performed six-month scientific research as a post-doctoral fellowship, Jagiellonian University, Faculty of Chemistry, Poland from February until August 2001. 3- Visited lab. of electrochemistry of mineral system in institute of catalysis and surface chemistry (Polish academy of science) as a post – doctoral fellow from July 1st until August 17th, 2001</i> |
| <i>Slovakia</i> | <i>22-5-2001</i> | <i>25-5-2001</i> | <i>Participated in the 3rd international conference of hydrometallurgy for new millennium, Slovakia, Kosice – Herlany.</i> |
| <i>Jordan</i> | <i>17-4-2000</i> | <i>19-4-2000</i> | <i>Participated in the 2nd international conference of pure, applied and environmental chemistry, Yarmouk University, Irbid, Jordan</i> |
| <i>Libya</i> | <i>1995</i> | <i>1998</i> | <i>Lecturer, Dept. Pharmaceutical Chemistry, Faculty of Pharmacy, Al-Arab Medical University, Benghazi, Libya, 1995 to 1998. External examiner at Faculty of Pharmacy, Great Al-Fateh Medical Sciences University (1996, 1997, 2005 and 2006, Tripoli, and Al-Arab Medical University, Benghazi, Libya, 1995-2009</i> |

COMPUTER USE

| Name the software(s) and the nature & purpose for using such software(s): | |
|---|---|
| 1- Information Technology, MS Windows, MS Word, MS Excel, MS Power Point, MS Access, MS Origin, Internet, Adobe Photoshop and Movie Maker | 1-Writing and preparing different documents, papers, reports and lecture. 2-Presentation of results, drawing Figures and other data for publication, seminars, lectures, conferences and other presentations. |
| 2- Other software such as: Isis software | For SEM and X-ray analysis. |
| 3- JEOL software | For the energy dispersive X-ray analyzer. |

UNIVERSITY TEACHING

| |
|---|
| I) University courses taught by applicant |
|---|

| University/Institution | Course title | Language of instruction |
|---|---|---|
| Assiut University, Faculty of Science (1984-1992). | Practical Qualitative Analysis. Practical Gravimetric Analysis. Practical Volumetric Analysis. Practical Instrumental Analysis. Practical Physical Chemistry. | English (Faculty of Science) and Arabic (Faculty of Education). |
| Assiut University, Faculty of Science (1992-1995, 1998-2007 and from 2011 to 2012). | Analytical Chemistry (Instrumental, Volumetric, and Gravimetric Analysis). Transition Metals. Electrochemistry. Nuclear and Radiation Chemistry. Thermodynamic. Atomic Chemistry. Physical Chemistry. Periodical Table. Rates and orders of chemical reactions. | English (Faculty of Science) and Arabic (Faculty of Education). |
| Al-Arab Medical University, Faculty of Pharmacy, Benghazi, Libya, 1995-1998. | Qualitative Analysis. Spot Analysis and Difficulties. Volumetric Analysis. Instrumental Analysis. Water and Fat Analysis. | English |
| Al-Azhar University, Faculty of Engineering (2005 to 2007). | Nuclear and Radiation Chemistry. Periodical Table. Electrochemistry. Physical Chemistry. Volumetric, and Gravimetric Analysis | English and Arabic |
| Misrata University, Chemistry Department, Faculty of Education, Libya.(2007 -2011) | Analytical Chemistry (Instrumental, Volumetric, and Gravimetric Analysis). Transition Metals. Electrochemistry. Nuclear and Radiation Chemistry. Thermodynamic. Atomic Chemistry. Physical Chemistry. Periodical Table. Rates and orders of chemical reactions. | Arabic (Faculty of Education). |

II) Courses, other than those listed above, which is prepared to teach

Statistical treatment of analytical data , Industrial analysis, Photo catalysis And other Inorganic, Analytical and Physical Chemistry courses can be prepared as required

SUPERVISING POSTGRADUATE STUDENTS:

- (1) *"Studies on the electrochemical behavior of Al and Al alloys in different media" M. Sc. Thesis, South Valley University.*
- (2) *"Charge transfer molecular complexes of heterocyclic compounds" M. Sc. Thesis, South Valley University.*
- (3) *"Electrochemical studies of Zn-Ni alloy in different media" M. Sc. Thesis, South Valley University.*
- (4) *"Electrochemical studies of Zn-Ni-Co alloy in different media" M. Sc. Thesis, South Valley University.*
- (5) *"Electrochemical studies of Zn-Ni-Fe alloy in different media" M. Sc. Thesis, South Valley University.*
- (6) *"Studies on the electrochemical behavior of steel containing low carbon ratio in different media" Ph. D. Thesis, South Valley University.*
- (7) *"Electrochemical studies of Zn-Ni-Mn alloy in different media" M. Sc. Thesis, South Valley University .*
- (8) *"Electrochemical studies of Zn-Co-Fe alloy in different media" Ph. D. Thesis, South Valley University .*

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Signature

Mortaga Abou-Krishna