

CURRICULUM VITAE

PERSONAL DATA

Name	Mortaga Mohamed Mostafa Abou-Krisha
Nationality	Egyptian
Position	Professor of Physical Chemistry- College of Science, Chemistry Department.
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EDUCATION

Year	Academic Degree	Institution
1982	B. Sc. (Chemistry).	Assiut University, Qena, Egypt
1987	M. Sc. (Chemistry)	Assiut University, Qena, Egypt
1992	Ph. D. (Chemistry)	Assiut University, Qena, Egypt

WORK EXPERIENCE

Period	Position	Address
1984- 1987	Demonstrator	Dept. Chemistry at Qena, Faculty of Science, South Valley University
1987- 1992	Assistant lecturer	Dept. Chemistry at Qena, Faculty of Science, South Valley University
1992-2006	Lecturer	Dept. Chemistry at Qena, Faculty of Science, South Valley University
2006	Assistant Prof. of Physical Chemistry	Dept. Chemistry at Qena, Faculty of Science, South Valley University
2012	Prof. of Physical Chemistry	Dept. Chemistry at Qena, Faculty of Science, South Valley University
1999-2005.	Manger of the analytical branch in Central Lab., Qena	South Valley University
2001 -2004 and from 2006-2007	Manager of the Center for Environmental Research and	South Valley University

	Applied Sciences	
1/1/2002 to 1/7/2002.	Manger of the Solar Energy Utilization Project.	South Valley University
1999-2001	Manager of Science Club	South Valley University
1999 to 2006	Treasurer of the Egyptian Society of Electrochemistry,	Qena, Egypt
2011-2012	Headed the Quality group in chemistry Department	Dept. Chemistry at Qena, Faculty of Science, South Valley University

RESEARCH INTERESTS

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

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**
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- 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 Krishna**
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
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- 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-Krishna** and A. M. Zaky
Materials Transactions JIM, 36, 6 (1995) 771.
- 6-Selective removal of lead from polymetallic alloys.
Mortaga M. Abou-Krishna and Marian Jaskula
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- 7-Factors affecting dissolution resistance of AC anodized Al in sodium carbonate solution.
Mortaga M. Abou-Krishna
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-Krishna**, 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-Krishna**
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-Krishna**, 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-Krishna** 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-Krishna**, 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. Toghian *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. Toghian *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. Makhlouf and Hala Souady *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-krisha** 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
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- M. M. Abou-Krishna**, F. H. Assaf and S. A. El-Naby *Arabian Journal of Chemistry*, 2016, Volume 9, Supplement 2, November 2016, Pages S1349–S1356
- 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
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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
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- 29- Schiff Base Derived from p-Nitrobenzaldehyde and 1,8-Naphthalenediamine Precursor in Metal Ions Uptake
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O. K. Alduaij, M. M. Abou-Krishna and M. I. Attia
Int. J. Electrochem. Sci 12 (2017) 11972-11986.
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H. M. Rageh, M. M. Abou-Krishna, A. M. Abo-bakr and M. Abd-Elsabour
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Arafat Toghan, Ahmed M. Abo-bakr, Hesham M. Rageh, Motaga M. Abou-Krishna, Mohamed Abd-Elsabour
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- F. H. Assaf, **M. M. Abou-Krishna**, Walid daoush and A. A. Eissa.
Corrosion Reviews, 36 (6), 547–558, 2018
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F. H. Assaf, A. A. Eissa and **M. M. Abou-Krishna**,
Russian Journal of Applied Chemistry, 91 (3), 510-519, 2018
- 43- DFT INVESTIGATION OF GEOMETRICAL STRUCTURE, IR AND RAMAN SPECTRA OF VINYL HALIDES CH₂=CH-X (X IS F, Cl AND Br)
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A. T. Hassan, R.K. Hussein, **Mortaga Abou-krisha** and Mohamed I Attia
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- 47- Theoretical and Experimental Studies of Different Amine Compounds as Corrosion Inhibitors for Aluminum in Hydrochloric Acid
Rageh.K. Hussein, **Mortaga Abou-Krishna**, Tarek A. Yousef
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- 51- Synthesis and Identification of Novel Potential Thiadiazole Based Molecules containing 1,2,3-triazole moiety Against COVID-19 Main Protease Through Structure-Guided Virtual Screening Approach
Huda R. M. Rashdan, Aboubakr H. Abdelmonsef, **Mortaga M. Abou-Krishna** and Tarek A. Yousef
Biointerface Research in Applied Chemistry, Volume 12, Issue 6, 2022, 8258 – 8270
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Nesreen T. El - Shamy, Ahmed M. Alkaoud, Rageh K. Hussein, Moez A. Ibrahim, Abdulrahman G. Alhamzani and **Mortaga M. Abou - Krisha**
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M. Abou-krisha, A. Toghhan, F Assaf and F. El-Sheref

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55- *Synthesis and In-vitro Biological Analyses of New quinazolin-2, 4-dione Derivatives*

H.R.M. Rashdan, H. Okas, M. A. Abdelhakeem, A. M. Mosallam, H. Temairk, A.G Alhamzani, **M. M. Abou-Krishna**, T. A. Yousef and A. H. Abdelmonsef

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56- *A Novel Electrochemical Sensor for Detection of Nicotine in Tobacco Products Based on Graphene Oxide Conjugated with a Poly(1,2-Naphthoquinone-4-Sulphonic Acid) Modified Glassy Carbon Electrode*

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Mohamed Abd-Elsabour, **Mortaga M. Abou-Krishna**, Abdulrahman G Alhamzani and Tarek A. Yousef
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58- *Environment-Friendly Corrosion Inhibitors for Aluminum in Hydrochloric Acid: Quantum and Experimental Research*

Tarek A. Yousef, Rageh. K. Hussein, Abdulrahman G. Alhamzani, Ahmed T. Al-Enazi, Mohammed B. AL-Osimi and **Mortaga M. Abou-Krishna**

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61- *Experimental and theoretical examinations of triazole linked saccharin derivatives as organic corrosion inhibitors for mild steel in hydrochloric acid*

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62- *New Dual Inhibitors of SARS-CoV-2 Based on Metal Com-2 plexes with Schiff Base 4-hloro-3-methyl phenyl hydrazine: 3 Synthesis, DFT, Antibacterial Properties and Molecular Dock-4 ing Studies*

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63- *Synthesis, molecular docking study and anticancer activity of novel 1, 3, 4-oxadiazole derivatives as potential tubulin inhibitors*

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64- *Fabrication of layered In₂S₃/WS₂ heterostructure for enhanced and efficient photocatalytic CO₂ reduction and various paraben degradation in water.*

Abdulrahman G. Alhamzani, Tarek A. Yousef, **Mortaga M. Abou-Krishna**, K. Yogesh Kumar, M.K. Prashanth, L. Parashuram, Byong Hun Jeon, M.S. Raghu

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65- *Cd (II) and Pd (II) Mixed Ligand Complexes of Dithiocarbamate and Tertiary Phosphine Ligands—Spectroscopic, Anti-Microbial, and Computational Studies*

Tohama B Abdullah, Reza Behjatmanesh-Ardakani, Ahmed S Faihan, Hayfa M Jirjes, **Mortaga M Abou-Krishna**, Tarek A Yousef, Sayed H Kenawy, Ahmed SM Al-Janabi

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66- *A Novel Electrochemical Sensor Based on an Environmentally Friendly Synthesis of Magnetic*

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67- *Spectroscopic, Anti-Cancer Activity, and DFT Computational Studies of Pt(II) Complexes with 1-Benzyl-3-phenylthiourea and Phosphine/Diamine Ligands*

Dina Saadi Mohamed, Subhi. A. Al-Jibori, Reza Behjatmanesh-Ardakani, Ahmed S. Faihan, Tarek A. Yousef, Abdulrahman G. Alhamzani, **Mortaga M. Abou-Krishna**, Ahmed S. M. Al-Janabi and Benjamin S. Hsiao

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68- *Green catalytic conversion of some benzylic alcohols to acids by NiO₂ nanoparticles (NPNPs) in water*

Abdel Ghany F. Shoair, Mai M. A. H. Shanab, N. A. El-Ghamaz, **Mortaga M. Abou-Krishna**, Sayed H. Kenawy and T. A. Yousef

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69- *Synthesis and in Silico Investigation of Organoselenium-Clubbed Schiff Bases as Potential Mpro Inhibitors for the SARS-CoV-2 Replication*

Saad Shaaban, Aly Abdou, Abdulrahman G. Alhamzani, **Mortaga M. Abou-Krishna**, Mahmoud A. Al-Qudah, Mohamed Alaasar, Ibrahim Youssef and Tarek A. Yousef

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