

# CURRICULUM VITAE

جامعة الأزهر  
Al-Azhar University-Gaza



**Nasser Mohammed Mahmoud Abu Ghalwa**

Last Update:29/01/2023

## PERSONAL DETAILS

|                   |                             |                |           |
|-------------------|-----------------------------|----------------|-----------|
| Date Of Birth     | 15/7/1965                   | Place Of Birth | Kanyounis |
| Nationality       | Palastinian                 |                |           |
| Martial Status    | Married                     | Gender         | Male      |
| Designation       | Professor                   |                |           |
| Department        | Chemistry                   |                |           |
| Faculty           | Science                     |                |           |
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HURL

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## ACADEMIC QUALIFICATIONS

(YEAR , QUALIFICATION , INSTITUTION , TITLE)

|      |   |
|------|---|
| 2003 | Doctoral Degree, PHD, Cairo University, Egypt<br>(Studies on the Acid Base Reactions in Molten Salts Using Metal/Metal Oxide Indicator Electrodes)  |
| 1997 | Master Degree, MSC, An Najah National University Nablus, Palestine<br>(Solvent effects on the solvatochromism of ferrocypen complex and on the kinetics of aquation of tris (ferrozine) iron(II) complex) |
| 1991 | Bachelor Degree, BSC, Islamic University Gaza, Palestine  |

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## CAREER HISTORY

(START DATE - END DATE, EMPLOYMENT , ORGANIZATION)

|                 |  |
|-----------------|--|
|                 |  |
| 2015 , till now | Prof., of physical chemistry ,Al Azhar University Gaza           |
| 2009 ,2015      | Associate Prof., of physical chemistry ,Al Azhar University Gaza |
| 2003 ,2008      | Assistant Prof., of physical chemistry ,Al Azhar University Gaza |
| 1997 ,2003      | Lecturer of physical chemistry ,Al Azhar University Gaza         |
| 1994 ,1997      | Demonstrator ,Al Azhar University Gaza                           |

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**ADMINISTRATIVE DUTIES**

(START\_DATE - END\_DATE , ROLE ,LEVEL)

2007 ,2009

Head of Chemistry department ,Department

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**SELECTED PUBLICATIONS**

- 1 Nasser M Abu Ghalwa\*, Rawia S Romia and Nader B Farhat (2018) . Application of Electrocoagulation on Adsorption of Styrene Acrylate Polymer from Aqueous Solutions,Int J Sci Res Environ Sci Toxicol ,3(3) ,1-11. (ISI Cited Publication )
- 2 Mazen Hamada1\*, Nasser Abu Ghalwa1, Nader B. Farhat1 , Khamis Al Mahllawi2 and Najma Jamee3 (2018) . Optimization of Electrocoagulation on Removal of Wastewater Pollutants,International Journal of Waste Resources,4( 8) ,2-6. (ISI Cited Publication )
- 3 Nasser M Ghalwa\*, Ahmed Z Musabeh and Nader B Farha (2017) . Performance Efficiency of Electrocoagulation Adsorption Process of Oxyfluorfen Herbicide from Aqueous Solutions Using Different Anodes,J Environ Anal Toxicol,3(7) ,2-12. (ISI Cited Publication )
- 4 Nasser M Abu Ghalwa\*, Alaa M Saqer and Nader B Farhat (2016) . Removal of Reactive Red 24 Dye by Clean Electrocoagulation Process Using Iron and Aluminum Electrodes,J Chem Eng Process Technol ,2(7) ,2-7. (ISI Cited Publication )
- 5 Ghalwa A\*, Nasser M and Farhat NB (2015) . Removal of Abamectin Pesticide by Electrocoagulation Process Using Stainless Steel and Iron Electrodes,J Environ Anal Chem,3(2) ,2-7. (ISI Cited Publication )
- 6 Ghalwa and Farhat (2015) . Removal of Imidacloprid Pesticide by Electrocoagulation Process using Iron and aluminum Electrodes,J Environ Anal Chem ,(2: 154) ,2-7. (ISI Cited Publication )
- 7 Nasser Abu Ghalwa (2014) . Potentiometric Titration of  $\text{NH}_4\text{VO}_3$  and  $\text{Na}_2\text{HAsO}_4$  in molten  $\text{NaNO}_3$  at 623 K using a Novel Solid State glass/  $\text{Nb}_2\text{O}_5$  pH Indicator Electrode,Sensors Journal, IEEE,14() ,612-616. (ISI Cited Publication )
- 8 Nasser Abu Ghalwa, Hazem M. Abu Shawish, Farid R. Zaggout, Salman M. Saadeh, Ayoub R. Al Dalou, Anwar A. Abou Assi (2014) . Electrochemical Degradation of Tramadol Hydrochloride. Novel Use of Potentiometric Carbon Paste Electrodes as a Tracer.,Arabian Journal of Chemistry,7() ,708–714. (ISI Cited Publication )
- 9 Nasser Abu Ghalwa (2013) . New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater.,IEEE Sensors Journal ,13() ,4757 4763. (ISI Cited Publication )
- 10 NASSER M. ABU GHALWA (2013) . ELECTROCHEMICAL DEGRADATION OF CHLORPYRIFOS IN AQUEOUS SOLUTIONS USING G/ $\text{Nb}_2\text{O}_5$  AND  $\text{Nb}/\text{Nb}_2\text{O}_5$  ELECTRODES,Int J Pharm Bio Sci,4() ,885 - 897. (ISI Cited Publication )
- 11 Hazem M. Abu Shawish, Ayoub A. Dalou, Nasser Abu Ghalwa, Ghada I. Khraish, Jehad Hammad, Abdel Hakem Basheer (2013) . Determination of Pethidine Hydrochloride Using Potentiometric Coated Graphite and Carbon Paste Electrodes,Drug Testing and analysis,5() ,2013-2019. (ISI Cited Publication )
- 12 Hazem M. Abu Shawish, Nasser Abu Ghalwa, Salman M. Saadeh, Heba El Harazeen. (2013) . Development of novel potentiometric sensors for determination of tartrazine dye concentration in foodstuff products,Food Chemistry,138() ,126-132. (ISI Cited Publication )
- 13 Nasser Abu Ghalwa, Hazem M. Abu Shawish and Heba El Harazeen (2013) . Determination of Electrochemical Degradation of E102 Dye at Lead Dioxide Doped Carbon Electrodes Using Some Potentiometric and Spectrophotometric Methods.,Chemistry Journal,3() ,1-6. (ISI Cited Publication )
- 14 Mohamed Gaber, Nasser Abu Ghalwa, Abdalla M. Khedr, and Munther F. Salem (2013) . Electrochemical Degradation of Reactive Yellow 160 Dye in Real Wastewater Using  $\text{C}/\text{PbO}_2$  ,  $\text{Pb}+\text{Sn}/\text{PbO}_2+\text{SnO}_2$  , and  $\text{Pb}/\text{PbO}_2$  Modified Electrodes,Journal of Chemistry ,9() ,2013 2018. (ISI Cited Publication )
- 15 Abdalla M. Khedr, Nasser Abu Ghalwa, Munther F. Salem, M. Gaber. (2012) . Determination of the Efficiency of Different Modified Electrodes in Electrochemical Degradation of Reactive Red 24 dyes in Wastewater Dyestuff Solutions.,Int. J.Electrochem.Sci.,7() ,8779 – 8793.. (ISI Cited Publication )

- 16 Hazem M. Abu Shawish, Nasser Abu Ghalwa and Heba El Harazeen (2012) . Assay of Tartrazine Dye Concentration in Foodstuff Products by New Potentiometric Carbon Paste Electrode, *SENSOR LETTERS*, 10(), 894-901. (ISI Cited Publication )
- 17 Nasser Abu Ghalwa, Mazen Hamada, Hazem M. Abu shawish, Ashraf Abu Swareh, Mohammed Al Askalany, Tagreed Siam (2012) . Using of  $\text{Ti/Co}_3\text{O}_4/\text{PbO}_2/(\text{SnO}_2 + \text{Sb}_2\text{O}_3)$  modified electrode as indicator electrode in potentiometric and conductometric titration in aqueous solution., *Journal of Electroanalytical Chemistry*, 664(), 7-13. (ISI Cited Publication )
- 18 Nasser Abu Ghalwa, Hazem M. Abu Shawish, Mazen Hamada, Khaled Hartani, Abed Al Hakem Basheer (2012) . Studies on degradation of diquat pesticide in aqueous solutions using electrochemical method  
  
., *American Journal of Analytical Chemistry*, 9(), 99-105. (ISI Cited Publication )
- 19 Nasser Abu Ghalwa (2012) . Development of a Novel Solid State Sensor Electrode Based on Titanium Thin Film as an Indicator Electrode in Potentiometric and Conductometric Acid Base Titration in Aqueous Solution. , *Journal of Sensors*, 2012(), 1-8. (ISI Cited Publication )
- 20 Nasser Abu Ghalwa, Hassan Tamos, Hazem Abu Shawish, Mohamed ElAskalni and Abed Rhman El Agha (2012) . Electrochemical degradation of picric acid using  $\text{C/PbO}_2$  and  $\text{Pb/PbO}_2$  Electrodes. , *Global Journal of Environmental Science and Technology* , 2(), 12-17. (ISI Cited Publication )
- 21 Nasser Abu Ghalwa, M. Gaber, Abdalla M. Khedr, Munther F. Salem (2012) . Electrochemical degradation of Reactive Black 5 dye in aqueous solution using  $\text{C/PbO}_2$ ,  $\text{Pb+Sn/PbO}_2+\text{SnO}_2$  and  $\text{Pb/PbO}_2$  electrodes., *Global Journal of Environmental Science and Technology*, 2(), 15-23. (ISI Cited Publication )
- 22 Nasser Abu Ghalwa, M. Gaber, Abdalla M. Khedr, Munther F. Salem (2012) . Comparative study of commercial oxide electrodes performance in electrochemical degradation of Reactive Orange 7 dye in aqueous solutions., *Int. J. Electrochem. Sci.*, 7(), 6044-6058. (ISI Cited Publication )
- 23 Nasser Abu Ghalwa, Hassan Tamos, Mohamed El Askalni and Abed Rhman El Agha (2012) . Generation of Sodium hypochlorite ( $\text{NaOCl}$ ) from sodium chloride solution using  $\text{C/PbO}_2$  and  $\text{Pb/PbO}_2$  Electrodes.  
  
., *Journal of Minerals, Metallurgy and Materials*, 19(), 561-566. (ISI Cited Publication )
- 24 Hazem M. Abu Shawish, Nasser Abu Ghalwa, Mazen Hamada, Abdel Hakem Basheer (2012) . Modified carbon paste electrode for potentiometric determination of diquat dibromide pesticide in water and urine samples  
., *Materials Science and Engineering: C*., 32(), 140-145. (ISI Cited Publication )
- 25 Mazen Hamada, Nasser Abu Ghalwa, Hazem M. Abu Shawish, Omar Shubai (2012) . Rapid and Inexpensive Densitometric Method, Using TLC Plates, for Quantification of Nine Pesticides in Water., *PaK.J.Chem*, 2(), 1-7. (ISI Cited Publication )
- 26 Nasser Abu Ghalwa (2012) . Potentiometric titration using of  $\text{Ti/ PbO}_2/\text{SnO}_2$  modified electrode as indicator electrode in aqueous solution., *Global Journal of analytical chemistry*, 16(), 3-18. (ISI Cited Publication )
- 27 Hazem M. Abu Shawish, Nasser Abu Ghalwa, Ghada I. Khraish (2011) . A New Potentiometric Sensor for Determination of Pethidine Hydrochloride in Ampoules and Urine, *American. Journal of Analytical Chemistry*, 2(), 56-65. (ISI Cited Publication )
- 28 Nasser Abu Ghalwa, Mazen Hamada, Hazem M. Abu Shawish, Omar Shubair (2011) . Electrochemical degradation of linuron in aqueous solution using  $\text{Pb/PbO}_2$  and  $\text{C/PbO}_2$  electrodes., *Arabian Journal of Chemistry* ,() . (ISI Cited Publication )
- 29 Hazem M. Abu Shawish, Nasser Abu Ghalwa, Ayoub R. Al Dalou, Farid R. Zaggout, Salman M. Saadeh and Anwar A. Abou Assi (2011) . Effect of plasticizers and ion exchangers on the detection limit of tramadol PVC membrane electrodes., *Eurasian Journal of Analytical Chemistry*, 6(), 70-83. (ISI Cited Publication )

- 30 Hazem M. Abu Shawish , Nasser Abu Ghalwa, Faried R. Zaggout, Salman M. Saadeh, Ayoub R. Al Dalou, Anwar A. Abou Assi (2010) . Improved determination of tramadol hydrochloride in biological fluids and pharmaceutical preparations utilizing a modified carbon paste electrode.,*Biochemical Engineering Journal*,48() ,237-245. (ISI Cited Publication )
- 31 Hazem M. Abu Shawish, Ayoub R. Al Dalou, Nasser Abu Ghalwa and Anwar A. Abou Assi (2010) . Potentiometric Sensor for Determination of Tramadol Hydrochloride in Pharmaceutical Preparations and Biological Fluids., ,(9) ,1 ,*Pharmaceutica Analytica Acta*,9() ,1-6. (ISI Cited Publication )
- 32 Hazem M. Abu Shawish, Salman M. Saadeh, Ayoub R. Al Dalou, Nasser Abu Ghalwa and Anwar A. Abou Assi (2010) . Optimization of Tramadol PVC membrane electrodes using miscellaneous plasticizers and ion pair complexes.,*Materials Science and Engineering C*,31() ,300-306. (ISI Cited Publication )
- 33 S. Zourab, N. Abu Ghalwa, F.R. Zaggout, M.Y. Al Asqalany, and N. Khdear (2009) . Electrochemical Degradation of Herbicidal and Pure 2,4 Dichlorophenoxy Acetic Acid on Pb/PbO<sub>2</sub> modified electrodes",*Journal of Dispersion Science and Technology* (Taylor & Francis group),30() ,712-719. (ISI Cited Publication )
- 34 Farid R. Zaggout and Nasser M. Abu Ghalwa (2008) . Removal of o nitrophenol from water by electrochemical degradation using a lead oxide/titanium modified electrode.,*Journal of Environmental Management* (Elsevier) ,86() ,291-296. (ISI Cited Publication )
- 35 Issa El Nahhal and N. Abu Ghalwa (2007) . Potentiometric titration of Na<sub>2</sub>HAsO<sub>4</sub>, NaPO<sub>3</sub>, Na<sub>4</sub>P<sub>2</sub>O<sub>7</sub> and their binary mixtures in NaNO<sub>3</sub> melt at 350oC using a novel solid state glass/TiO<sub>2</sub> as pH indicator electrode.,*Journal of Dispersion Science and Technology* (Taylor & Francis group),28() ,879-882. (ISI Cited Publication )
- 36 N. Abu Ghalwa (2007) . Titration of Potentiometric NH<sub>4</sub>VO<sub>3</sub>, KH<sub>2</sub>PO<sub>4</sub>, K<sub>2</sub>HPO<sub>4</sub> and their mixtures in molten NaNO<sub>3</sub> at 350oC using a novel solid state glass/TiO<sub>2</sub> as pH indicator electrode,*Journal of Dispersion Science and Technology*(Taylor & Francis group),28() ,949-957. (ISI Cited Publication )
- 37 N. Abu Ghalwa and Issa El Nahhal (2007) . Development of a novel solid state pH sensor electrode based on Titanium oxide thin film as an indicator electrode in potentiometric acid base titration in fused NaNO<sub>3</sub> at 350oC.,*Journal of Dispersion Science and Technology* (Taylor & Francis group),28() ,757-764. (ISI Cited Publication )
- 38 Nasser M. Abu Ghalwa and Farid R. Zaggout (2006) . Electrodegradation of methylene blue dye in water and wastewater using lead oxide/ Titanium modified electrode,*Journal of Environmental Science and Health part A* (Taylor & Francis group),41() ,2271- 2282. (ISI Cited Publication )
- 39 N. M. Abu Ghalwa and M. S. Abdel Latif (2005) . Electrochemical degradation of Acid green dye in aqueous wastewater dyestuff solutions using a lead oxide coated titanium electrode,*Journal of the Iranian Chemical Society*,2() ,238 - 243. (ISI Cited Publication )
- 40 H. S. Awad and N. Abu Ghalwa (2005) . Electrochemical degradation of acid blue and basic brown dyes on Pb/PbO<sub>2</sub> electrode in the presence of different conductive electrolyte and affect of various operation factors,*Chemosphere* (Elsevier),61() ,1327 - 1335. (ISI Cited Publication )
- 41 N. Abu Ghalwa (2004) . The use of Ti/Ti oxide electrode in potentiometric titration of acetic, propanoic and phosphoric acids. Oxidation reduction titration of ferrous ion with KMnO<sub>4</sub>,*Journal of Al Azhar university Gaza (Natural Sciences)* ,7() ,55-66. (ISI Cited Publication )
- 42 N. Abu Ghalwa, A. M. Baraka (2004) (2004) . Preparation of (Al Sb)/(Al Sb) oxide electrode, and its use as indicator electrode in potentiometric titration in aqueous solutions. ,*Al Azhar Bulletin of Science*,15() ,203-210. (ISI Cited Publication )
- 43 B.F. Shraydeh, M. Abu Eid, N. Abu Ghalwa (1995) . Preferential solution of Fe(phen)<sub>2</sub>(CN)<sub>2</sub> in binary aqueous acetone and 2 methoxyethanol mixtures  
  
 ,*Monatshete für Chemie*,126() ,631-635. (ISI Cited Publication )

- 44 Nasser M. A. Ghalwa<sup>1</sup>, Ahmed Z. Musabeh<sup>2</sup>, Nader B. Farahat ( 2016) . Optimization of Electrocoagulation (EC) Process for the Purification of Water from 2,4-Dichlorophenoxyacetic Acid (2,4-D) Using Sacrificial Anodes ,International Journal of Innovative Research in Science, Engineering and Technology,3(5) ,2760-2778. (ISI Cited Publication )
  - 45 Nasser M Abu Ghalwa\* and Nader B Farhat ( 2016) . Adsorption of Fenamiphos Pesticide from Aqueous Solutions by Electrocoagulation Using Sacrificial Anodes, J Environ Anal Toxicol,2(6) ,2-8. (ISI Cited Publication )
  - 46 Nasser M. Abu Ghalwa, Rawia S. Romia, Nader B. Farhat, Mohamed Y. Alasqalan ( 2016) . Electrocoagulation (Ec) of Styrene Butadiene Rubber from Aqueous Solution using di?erent Electrodes Research Article Open Access,International Journal of Nanotechnology in Medicine & Engineering ,2(1) ,37-49. (ISI Cited Publication )
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## RESEARCH PROJECTS

(FROM - TO ,PROJECT\_TITLE ,ROLE ,SOURCE ,LEVEL)

|            |   |
|------------|---|
| 2016 ,2017 | Production of widely commercial used materials through recycling of brine ,<br>,Qatar Charity ,University   |
| 2005 ,2007 | Wastewater treatment using electrochemical methods project ,Al Azhar<br>university-Gaza ,Grant from Academy Education Development (AED) and The<br>Palestinian Ministry of Higher Education ,University |

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## SUPERVISION

(DEGREE ,CANDIDATES ,THESIS ,SESSION ,YEAR)

|           |   |
|-----------|---|
| Ongoing   | * PHD , Iyad D. Al-Kashef ,Potentiometric Ion Selective Electrodes of Some Anticancer Drugs in Micellar Solution ,2018 ,Al-Azhar University of Gaza   |
| Completed | * Master ,Ahmed Zuhair Musabeh ,Electrocoagulation of some herbicides in aqueous solutions using different electrodes ,2016 ,Al-Azhar University of Gaza  |
|           | * Master ,Nader Bassam Rabah Farhat ,Electrocoagulation of some pesticides in aqueous solutions using different electrodes ,2015 ,Al-Azhar University-Gaza  |
|           | * Master ,Jihad Ahmed Abuhailima ,Electrocoagulation Treatment of Brine Water from (RO) Desalination Plants ,2016 ,Al-Azhar University of Gaza  |
|           | * Master ,Rawia Sauod Romia ,Removal of Some Polymers in Aqueous Solutions Using Electrocoagulation ,2016 ,Al-Azhar University - Gaza   |
|           | * Master ,Ala Saqer ,Decolorization of some reactive Textile Dyes using electrocoagulation technique ,2015 ,  |
|           | * PHD ,Munther F. Salem, Tanta university ,Determination of the efficiency of different modified electrodes in electrochemical degradation of some dyes in wastewater dyestuff solutions by spectrophotometric methods. ,2013 , |
|           | * PHD ,Sami F. Hillis, Ain Shams University ,Studying of the removal of some hardly oxidized harmful pollutant from wastewater ,2008 ,  |
|           | * Master ,Mohammed Y. Askalani ,Degradation of some hardly oxidized harmful pollutant from wastewater ,2007 ,   |
|           | * Master ,Anouar A. Abu Assi ,Synthesis and application of some ion selective electrode ,2009 ,   |
|           | * Master ,Abdel. Rahman M.A. Alagha ,Hypochlorite Generation On Some Modified Electrodes For Treatment Of Wastewater Pollutants ,2010 ,   |
|           | * Master ,Omar Saleh Shubair ,Development of a thin layer chromatography method for the determination of some pesticides used in Gaza strip and their removal by electrodegradation ,2011 ,                                     |
|           | * Master ,Taghreed J.A. Siam ,Using of some modified electrodes as indicator electrodes in potentiometric and conductometric titrations in aqueous solutions ,2011 ,  |
|           | * Master ,Ghada I. Khraish ,Improving the performance characteristics of some drugs selective electrodes ,2011 ,  |

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## EVALUATION ACTIVITIES

(DESCRIPTION ,EVALUTION ,YEAR)

|                                   |  |
|-----------------------------------|--|
| Book/ Article in Journal Reivewer | * Serving as a reviewer for several internationally recognized journalsSensor Letters, Materials Science and Engineering C , |
|                                   | * and Arabian Journal of Chemistry, Journal of Hazard Materials ,  |
|                                   | * 1- Serving as a reviewer for several internationally recognized journals: Destination Journal ,2006                        |

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## TEACHING

(LEVEL ,COURSE )

|               |  |
|---------------|--|
| First Degree  | * Physical Chemistry (I), (II), (III)  |
|               | * Physical Chemistry Lab (I), (II)     |
|               | * General Chemistry (I), (II)          |
|               | * Dyes                                 |
|               | * advance physical chemistry           |
| Post Graduate | * special topics in physical chemistry |
|               | * Advanced electrochemistry            |

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**SKILLS**

(SKILL , PROFICIENCY )

languages: arabic ,Excellent

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