CURRICULUM VITAE

جامعة الأزهر
Al-Azhar University-Gaza

Nasser Mohammed Mahmoud Abu Ghalwa

Last Update:19/08/2025

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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ACADEMIC QUALIFICATIONS

(YEAR ,QUALIFICATION ,INSTITUTION ,TITLE)

2003	Doctoral Degree, PHD,Cairo University, Egypt (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 (Solvent effects on the solvatochromism of ferrocyphen complex and on the kinetics of aquation of tris (ferrozine) iron(II) complex)
1991	Bachelor Degree, BSC,Islamic University Gaza, Palestine

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

ADMINISTRATIVE DUTIES

(START_DATE - END_DATE , ROLE ,LEVEL)

2018 , till now	Head of Chemistry ,Department
2007 ,2009	Head of Chemistry department ,Department

SELECTED PUBLICATIONS

- Article in Academic Journal

1. Nasser M Abu Ghalwa, Fawzi Kodih, Nader B Farhat and Amer Said Abu Muammer (2023) . Design and Preparation of Cresol Red Indicator on High Conducting Surface (SnO 2) using Spin Coating Method,Journal Material Science,7(3) ,1-12. (ISI Cited Publication)
2. Husam Al Najarو Nasser M. Abu Ghalwa, Abdullah Y. Al Haj Ahmeda (2023) . Boron adsorption from water using titanium dioxide nanoparticles and modified titanium dioxide by cationic surfactant (CTAB): kinetics, isotherms, and thermodynamics,Desalination and Water Treatment,2(11) ,160-172. (ISI Cited Publication)
3. Abdullah Y. Al Haj Ahmeda, Nasser M. Abu Ghalwa, Husam Al Najar (2023) . Removal of boron from aqueous solution through adsorption process using cationic surfactant (CTAB)-modified kaolin clay,Desalination and Water Treatment ,(295) ,133-141. (ISI Cited Publication)
4. Nasser M. Abu Ghalwa , Fawzi S. Kodeh , Nader B. Farhat , Deeb M. El Najjar (2023) . Treatment of Grey Water Using Electrochemical Methods: A Comparison between Combined Electrocoagulation and Electrooxidation,Journal of Environmental Engineering and Studies,8(1) ,61-74. (ISI Cited Publication)
5. Nasser M Abu Ghalwa, Fawzi Kodih, Nader B Farhat and Rewaa J Abu Saelik (2021) . A Spin Coating of Thymol Blue Indicator on F-SnO2 Glass to fabricate a Novel Sensor Electrode in Potentiometric Acid-Base Titration,Journal Material Science,6(3) ,64-72. (ISI Cited Publication)
6. Nasser M Abu Ghalwa, Fawzi Kodih, Nader B Farhat and Rewaa J Abu Saelik (2020) . Synthesis of a Novel Sensor Electrode Based on Bromothymol Blue as an Indicator Electrode in Potentiometric Acid-Base Titration in Aqueous Solution,Organic & Medicinal Chemistry International Journal,9(3) ,86-95. (ISI Cited Publication)
7. Nasser Abu Ghalwa, Khalid I. Abed Almonem, Iyad D. Al-Kashef, Salman M. Saadehb and Hazem M. Abu Shawish (2020) . Comparative effects of surfactants on the behavior of an anticancer drug potentiometric sensor,The Royal Society of Chemistry Journal,(12) ,679-686. (ISI Cited Publication)
8. Iyad Darweesh Al-Kashef , Salman Mostafa Saadeh , Khalid Ibrahim Abed Almonem , Hazem Mohammed Abu Shawish and Nasser Mohammed Abu Ghalwa (2020) . Improvement of performance of anti-cancer (dacarbazine) drug sensor utilizing tetraphenylborate anion ,GSC Biological and Pharmaceutical Sciences,3(11) ,92-103. (ISI Cited Publication)
9. Hazem M. Abu Shawish , Nasser Abu Ghalwa, Iyad D. Al-Kashef , Salman M. Saadeh , Khalid I. Abed Almonem (2020) . Extraordinary enhancement of a 5-fluorouracil electrode by praepagen HY micellar solutions,Microchemical Journal ,(125) ,104316-104327. (ISI Cited Publication)
10. 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)
11. 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)
12. 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)
13. 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)

14 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)

15 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)

16 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)

17 Nasser Abu Ghalwa (2014) . Potentiometric Titration of NH4VO3 and Na2HAsO4 in molten NaNO3 at 623 K using a Novel Solid State glass/ Nb2O5 pH Indicator Electrode,Sensors Journal, IEEE,14() ,612-616. (ISI Cited Publication)

18 Mohamed Gaber, Nasser Abu Ghalwa, Abdalla M. Khedr, and Munther F. Salem (2013) . Electrochemical Degradation of Reactive Yellow 160 Dye in Real Wastewater Using C/PbO2 , Pb+Sn/PbO2+SnO2 , and Pb/PbO2 Modified Electrodes,Journal of Chemistry ,9() ,2013 2018. (ISI Cited Publication)

19 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)

20 NASSER M. ABU GHALWA (2013) . ELECTROCHEMICAL DEGRADATION OF CHLORPYRIFOS IN AQUEOUS SOLUTIONS USING G/NB2O5 AND NB/NB2O5 ELECTRODES,Int J Pharm Bio Sci,4() ,885 - 897. (ISI Cited Publication)

21 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)

22 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)

23 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)

24 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)

25 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)

26 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)

27 Nasser Abu Ghalwa, Hassan Tamos, Hazem Abu Shawish, Mohamed ElAskalni and Abed Rhman El Agha (2012) . Electrochemical degradation of picric acid using C/PbO2 and Pb/PbO2 Electrodes. ,Global Journal of Environmental Science and Technology ,2() ,12-17. (ISI Cited Publication)

28 Nasser Abu Ghalwa, M. Gaber, Abdalla M. Khedr, Munther F. Salem (2012) . Electrochemical degradation of Reactive Black 5 dye in aqueous solution using C/PbO2, Pb+Sn/PbO2+SnO2 and Pb/PbO2 electrodes.,Global Journal of Environmental Science and Technology,2() ,15-23. (ISI Cited Publication)

29 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)

30 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)

31 Nasser Abu Ghalwa (2012) . Potentiometric titration using of Ti/ PbO2/SnO2 modified electrode as indicator electrode in aqueous solution.,Global Journal of analytical chemistry,16() ,3-18. (ISI Cited Publication)

32 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)

33 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)

34 Nasser Abu Ghalwa, Hassan Tamos, Mohamed El Askalni and Abed Rhman El Agha (2012) . Generation of Sodium hypochlorite (NaOCl) from sodium chloride solution using C/PbO2 and Pb/PbO2 Electrodes.

,Journal of Minerals, Metallurgy and Materials,19() ,561- 566. (ISI Cited Publication)

35 Nasser Abu Ghalwa, Mazen Hamada, Hazem M. Abu shawish, Ashraf Abu Swareh, Mohammed Al Askalany, Tagreed Siam (2012) . Using of Ti/Co3O4/PbO2/(SnO2 + Sb2O3) modified electrode as indicator electrode in potentiometric and conductometric titration in aqueous solution.,Journal of Electroanalytical Chemistry,664() ,7 - 13. (ISI Cited Publication)

36 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)

37 Nasser Abu Ghalwa, Mazen Hamada, Hazem M. Abu Shawish, Omar Shubair (2011) . Electrochemical degradation of linuron in aqueous solution using Pb/PbO2 and C/PbO2 electrodes.,,Arabian Journal of Chemistry ,() ,. (ISI Cited Publication)

38 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)

39 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)

40 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)

41 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)

42 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/PbO2 modified electrodes".,Journal of Dispersion Science and Technology (Taylor & Francis group),30() ,712-719. (ISI Cited Publication)

43 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)

44 N. Abu Ghalwa (2007) . Titration of Potentiometric NH4VO3, KH2PO4, K2HPO4 and their mixtures in molten NaNO3 at 350oC using a novel solid state glass/TiO2 as pH indicator electrode,Journal of Dispersion Science and Technology(Taylor & Francis group),28() ,949-957. (ISI Cited Publication)

45 Issa El Nahhal and N. Abu Ghalwa (2007) . Potentiometric titration of Na2HAsO4, NaPO3, Na4P2O7 and their binary mixtures in NaNO3 melt at 350oC using a novel solid state glass/TiO2 as pH indicator electrode.,Journal of Dispersion Science and Technology (Taylor & Francis group),28() ,879-882. (ISI Cited Publication)

46 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 NaNO3 at 350oC.,Journal of Dispersion Science and Technology (Taylor & Francis group),28() ,757-764. (ISI Cited Publication)

47 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)

48 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)

49 H. S. Awad and N. Abu Ghalwa (2005) . Electrochemical degradation of acid blue and basic brown dyes on Pb/PbO2 electrode in the presence of different conductive electrolyte and affect of various operation factors,Chemosphere (Elsevier),61() ,1327 - 1335. (ISI Cited Publication)

50 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)

51 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 KMnO4,Journal of Al Azhar university Gaza (Natural Sciences) ,7() ,55-66. (ISI Cited Publication)

52 B.F. Shraydeh, M. Abu Eid, N. Abu Ghalwa (1995) . Preferential solution of Fe(phen)2(CN)2 in binary aqueous acetone and 2 methoxyethanol mixtures

,Monatshete für Chemie,126() ,631-635. (ISI Cited Publication)

53 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)

54 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)

55 Nasser M. A. Ghalwa1, Ahmed Z. Musabeh2, 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)

RESEARCH PROJECTS

(FROM - TO ,PROJECT_TITLE ,ROLE ,SOURCE ,LEVEL)

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

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 Abuhalima ,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 ,

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

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

SKILLS

(SKILL ,PROFICIENCY)

languages: arabic ,Excellent