

In The Name of God



Name: Hazem Mohamed Abed Al-Hameed Abu Shawish

Born: Nov. 2, 1970, Gaza, Palestine

Nationality: Palestinian

Marital status: Married, 6 children

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HIGHLIGHTS:-

- 1- Vice Dean of the Faculty of Science (2013- 2016)
- 2- Vice Dean of Graduate Studies and Research (2007-2011)
- 3- Assistant to the Editor of Journal of Al-Aqsa University 2007-2011(https://www.alagsa.edu.ps/site_resources/aqsa_magazine/files/165.pdf)
- 4- Editorial board member of Pharmaceutica Analytica Acta 2010
- 5- Editorial board member of Chemistry journal 2012- up to now (http://www.scientific-journals.co.uk/index.php?p=1_19)
- 6- Editorial board member of International Journal of Advances In Pharmacy, Biology And Chemistry 2012- up to now(<http://www.ijapbc.com/editorialboard.html>)

- 7- Editorial board member of Chemical Engineering: An International Journal (CEIJ) 2014 (<http://airccse.com/cej/editorial.html>)
- 8- Editorial board member of Journal of Environmental Analytical Chemistry 2014-up to now (<http://www.omicsgroup.org/journals/editorialboard-environmental-analytical-chemistry-open-access.php>)
- 9- Editorial board member of International Journal of BioAnalytical Methods & BioEquivalence Studies 2015-up to now(http://scidoc.org/editorial_board.php?id=26)
- 10- Editorial board member of Bulletin of Faculty of Pharmacy (Elsevier)
- 11- Editorial board member of Journal of Pharmaceutical and Analytical Chemistry
- 12- 54 peer-reviewed journal publication, 633 total citations by 451 documents according to Elsevier bibliographic database (Scopus), h-index: 17. According to Google Scholar database; 2041 total citations and h-index: 21
- 13- Serving as a reviewer for several internationally recognized journals: Talanta, Sensor Letters, Sensors and Actuators: B, Journal of Hazardous Materials, Materials Science and Engineering C, Arabian Journal of Chemistry, Journal of the Serbian Chemical Society, Ionics, Measurement Science and Technology, Analytical Methods, International Journal of Environmental Analytical Chemistry, Analytical Chemistry Insights,, Measurement, Pharmaceutica Analytica Acta, Journal of the Iranian Chemical Society, Current Drug Delivery, International Journal of Electrochemistry, Chemical Industry & Chemical Engineering Quaterly, American Journal of Analytical Chemistry ect...
- 14- Supervising Ph.D and M.Sc students

Educational Records:

B.S. in Chemistry: Tanta University, Tanta, Egypt, 1993.

M.S c. in Chemistry: Al-Azhar University of Gaza jointly with UMIST England, 2000.

Ph.D. in Analytical Chemistry: Cairo University, Cairo, Egypt, 2005.

Academic Experiences:

Academic researcher: Research center of Al-Aqsa university, Al-Aqsa University, 2005-2008

Assistant Professor : Department of Chemistry, Faculty of science, Al-Aqsa University, 2008-2011

Associate Professor: Department of Chemistry, Faculty of science, Al-Aqsa University, 2011-2017

Full Professor: Department of Chemistry, Faculty of science, Al-Aqsa University, Since 2017

Courses Taught:

<i>Level</i>	<i>Course</i>
<i>Undergraduate</i>	Instrumental Analysis, Environmental Chemistry, Analytical chemistry (1) General Chemistry (1), Analytical chemistry Lab, Fundamentals of Chemistry, Environmental Studies, General Chemistry Lab.
<i>Postgraduate</i>	Advanced Analytical Chemistry

Memberships:

1. Member of scholar's associations for Palestine.
2. Member of Healthy Water Association.

Awards:

1. Award of the best master thesis submitted to the Chemistry Department. Islamic University, 2011.
2. Award of best research for undergraduate student, Islamic University, 2011.
3. Award of best research for undergraduate student, Islamic University, 2012.
4. Award of Arab American University Award for Excellence in Scientific Research 2019

Research Interests:

The main goal of research is electrochemical sensors (development and application). New analytical methods are developed based on new types of electrochemical sensors (potentiometric), basically for the determination of some drugs, dyes and surfactants in various samples using plastic, coated wire and chemically modified carbon paste electrodes. In addition, various compounds or complexes are utilized in designing new electrodes for determination of some metal cations and anions exploiting the relevant properties of such materials for the specific aim. Some examples are electrodes for copper, chromium, lead and mercury.

Work Experience:-

- 1- Laboratory manager of Seven-Up Company-Gaza-Palestine 1993-1995
- 2- Analytical Chemist in Shifa Hospital Medical Laboratory and forensic lab (1995 – 2005).
- 3- Researcher in Research Center: Faculty of Science, , Al-Aqsa University- Gaza
- 4- Lecturer of Analytical Chemistry, Al-Aqsa University, Palestine
- 5- Vice Dean of Graduate Studies and Research (2007-2011)
- 6- Vice Dean of the Faculty of Science (2013-2016).

Supervision on Ph. D. and M. Sc. Thesis

M.Sc. thesis:

- 1- Anwar A. F. Abou Assi, Synthesis and applications of some new ion- selective electrodes for determinations of pharmaceutical, Al-Azhar University, Gaza (2008-2010).
- 2- Baha Kh.Daher, Synthesis and characterization of lead "II" complexes with some polydentate ligands and their application in lead "II"- selective electrodes, Islamic University, Gaza (2009-2011).
- 3- Ghada I. Khraish , Improving the performance characteristics of some drugs-selective electrodes, Al-Azhar University, Gaza (2009-2011).
- 4- Abdel-Hakem M. Basheer, Development and characterization of new ion-selective electrodes for determination of diquat dibromide pesticide in real samples and its

electrochemical degradation, Al-Azhar University, Gaza (2009-2011).

5- Heba El Harazeen, Development and characterization of new ion selective electrodes for E102 dye and its electrochemical degradation, **Al-Azhar University, Gaza** (2011-2014)

6- Osama K. Al-Khalili, Fabrication of new electrochemical sensors for ketamine drug analysis, Al-Azhar University, Gaza (2012-2014)

7- Asma A. Shaheen, New ion-selective electrodes for determination of haloperidol drug in urine and ampoule samples Al-Azhar University, Gaza (2014-2016)

8- Ahmad Tabaza, Enhanced sensitivity of Atomoxetine Selective Electrodes comprising TiO₂ nanoparticles, Al-Azhar University, Gaza(2016-2018)

Ph.D. thesis:

1-Khalid Ibrahim Mohamed Abd El-Menem, Preparation, characterization and applications of new ion-selective electrodes for determination of some surfactant compounds, Egypt, Tanta University, Faculty of Science, Chemistry Department, (2011-2014)

2- Iyad Darweesh El kashef, Potentiometric Ion Selective Electrodes of Some Anticancer Drugs in Micellar Solution, Palestine, Gaza, Al Azhar university, Faculty of Science, Chemistry Department, (2018-2020)

Scientific Conference

1- The First International Conference of Natural and Applied Science, Faculty of Applied Science, Al-Aqsa University, Palestine (2005) Chemically Modified Carbon Paste Electrode for Potentiometric Determination of Dicyclomine Hydrochloride in Batch and in FIA Conditions. Hosny Ibrahim, Y.M. Issa and Hazem M. Abu-Shawish.

2- The Second International for Science and Development. Faculty of Science, the Islamic University of Gaza, Palestine (2007) "Potentiometric Flow Injection Analysis of Dicyclomine Hydrochloride in Serum, Urine and Milk." H. Ibrahim, Y.M. Issa and Hazem M. Abu-Shawish

3- The 56th International Conference on Analytical Sciences and Spectroscopy (ICASS), Edmonton, Alberta, Canada on August 15th - 18th, 2010. "A new tramadol selective electrode as a tracer in pharmaceutical preparations and biological fluids" Hazem M. Abu-Shawish, Salman M. Saadeh, Naser Abu Ghalwa, Fared R. Zaggout,

Ayoub R. Al-Dalou, and Anwar A. Abou Assi.

4- The First International Conference on Basic & Applied Sciences (ICBAS 2010), 10- 12 Oct. 2010 at Al Azhar University -Gaza, Palestine. New Diquat Potentiometric Sensor as a Useful Device for Diquat Dibromide Analysis in Water and Urine Samples. Hazem M. Abu Shawish, Mazen Hamada, Abdel-Hakem Basheer

5- The Second International Conference on Basic & Applied Sciences 9-11 Oct. 2012 at Al Azhar University - Gaza, Palestine. Determination of benzalkonium chloride preservative in pharmaceutical formulation of eye and ear drops using new potentiometric sensors. M. Gaber, Hazem M. Abu Shawish, Abdalla M. Khedr, Khalid

I. Abed-Almonem.

6- Fourth International Conference for Science and Development (ICSD-IV)- Nov. 22- 23- 2011 at Islamic University of Gaza. A new potentiometric thiosalicylamide-functionalized polysiloxane carbon paste electrode for lead (II) determination. Salman M. Saadeh, Hazem M. Abu-Shawish, Khalid I. Abed-Almonem, Alaa Baraka, Ayat abu Mkhada, Walaa Safi

7- The VII. Palestinian International Chemistry Conference, Birzeit University, Palestine, 23-24, March 2013. A comparative study of solid and liquid inner contact benzalkonium chloride ion-selective electrode membranes. Hazem M. Abu Shawish, Abdalla M. Khedr, Khalid I. Abed-Almonem, M. Gaber

8- Member of the organization committee for the sixth international conference on science and development (6th ICSD) at Islamic University of Gaza Mar. 14-15, 2017

List of Publications

<u>No.</u>	<u>Title</u>	<u>Journal</u>	<u>Authors</u>	<u>Impact factor</u>
1-	Chemically modified carbon paste electrode for the potentiometric determination of dicyclomine hydrochloride in batch and FIA Conditions.	<u><i>Analytical Science</i>, 20 (2004) 911-916</u>	H. Ibrahim, Y.M. Issa and Hazem M. Abu-Shawish	1.051
2-	Chemically modified carbon paste electrode for the potentiometric determination of mebeverine hydrochloride in steady state and FIA conditions.	<u><i>Egypt. J. Anal. Chem.</i>, 13 (2004) 38-48</u>	H. Ibrahim, Y.M. Issa and Hazem M. Abu-Shawish	Not available
3-	Potentiometric flow injection analysis of dicyclomine hydrochloride in serum, urine, and milk	<u><i>Anal. Chim. Acta</i> 532 (2005) 79-88</u>	H. Ibrahim, Y.M. Issa and Hazem M. Abu-Shawish	3.186
4-	Potentiometric flow injection analysis of mebeverine hydrochloride in serum and urine	<u><i>J. Pharm. Biomed. Anal.</i> 36 (2005) 1053-1061</u>	H. Ibrahim, Y.M. Issa and Hazem M. Abu-Shawish	2.761
5-	Carbon paste electrode for the potentiometric flow injection analysis of drotaverine hydrochloride in serum and urine	<u><i>Microchim. Acta</i> 150 (2005) 47-54.</u>	Y.M. Issa, H. Ibrahim and Hazem M. Abu-Shawish	1.237
6-	Potentiometric flow injection analysis of drotaverine hydrochloride in pharmaceutical preparations	<u><i>Anal. Lett.</i>, 38 (2005) 111-132</u>	H. Ibrahim, Y.M. Issa and Hazem M. Abu-Shawish	1.362
7-	Improving the detection limits of antispasmodic drugs electrodes by using modified membrane sensors with inner solid contact	<u><i>J. Pharm. Biomed. Anal.</i>, 44(2007) 8-15</u>	H. Ibrahim, Y.M. Issa and Hazem M. Abu-Shawish	2.761
8-	Separation of Racemates Using Chiral HPLC and Creation of a Database for this Methodology	<u><i>Asian J. Chem.</i>, 19, (2007) 1443-1454</u>	Farid R. Zaggout, Hazem M. Abu Shawish and Brian L. Booth	0.292
9-	Chemically modified carbon paste electrode for potentiometric analysis of Cyproheptadine hydrochloride in serum and urine	<u><i>Can. J Anal. Sci. Spect.</i> 52 (2007) 225-232</u>	Hazem M. Abu-Shawish and Salman M. Saadeh	0.422
10-	A New Chemically Modified Carbon Paste Electrode for Determination of Copper Based on N,N'-Disalicylidenehexameythylenediaminate Copper(II) Complex.	<u><i>Sensor Lett.</i> 5 (2007) 565-571</u>	Hazem M. Abu-Shawish and Salman M. Saadeh	1.587

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|-----|--|---|--|---------------|
| 11- | Heterocyclic synthesis using nitrilimines: Part 10. Synthesis of some new 1,3,4,6-tetrasubstituted 1,2,4,5-tetrazines | <u><i>Org. Commun.1:1 (2008) 1-8</i></u> | Hany M. Dalloul, Hazem M. Abu-Shawish | Not available |
| 12- | Potentiometric Response of Modified Carbon Paste Electrode Based on Mixed Ion-Exchangers | <u><i>Electroanalysis. 20 (2008) 491-497</i></u> | Hazem M. Abu-Shawish | 2.949 |
| 13- | Enhanced sensitivity for Cu(II) by a salicylidine-functionalized polysiloxane carbon paste electrode | <u><i>Talanta. 76 (2008) 941-948</i></u> | Hazem M. Abu-Shawish, Salman M. Saadeh, Ahmad R. Hussien | 3.374 |
| 14- | A comparative study of Chromium (III) Ion-Selective Electrodes Based on N,N-bis(salicylidene)-o-phenylenediaminechromium(III) | <u><i>J. Iran. Chem. Soc., 6 (2009)729-737</i></u> | Hazem M. Abu-Shawish, Salman M. Saadeh, K. Hartani, H. M. Dallou | 1.389 |
| 15- | New room temperature ionic liquids with interesting ecotoxicological and antimicrobial properties | <u><i>Ecotoxicology and Environmental Safety, 72 (2009) 1805-1809</i></u> | Salman M. Saadeh, Zeyad Yasseen, Fadel A Sharif, Hazem M Abu Shawish | 2.014 |
| 16- | A mercury (II) selective sensor based on N,N'-bis(salicylaldehyde)- phenylenediamine as neutral carrier for potentiometric analysis in water samples | <u><i>Journal of Hazardous Materials, 167 (2009) 602-608</i></u> | Hazem M. Abu-Shawish | 4.144 |
| 17- | Improved determination of tramadol hydrochloride in biological fluids and pharmaceutical preparations utilizing a modified carbon paste electrode | <u><i>Biochemical Engineering Journal, 48 (2010) 237-245</i></u> | Hazem M. Abu-Shawish , Nasser Abu Ghalwa, Faried R. Zaggout, Salman M. Saadeh, Ayoub R. Al-Dalou, Anwar A. Abou Assi | 2.193 |
| 18- | Potentiometric Sensor for Determination of Tramadol Hydrochloride in Pharmaceutical Preparations and Biological Fluids. | <u><i>Pharmaceutica Analytica Acta 9 (2010) 1-6</i></u> | Hazem M. Abu Shawish, Ayoub Al-Dalou, Nasser Abu Ghalwa and Anwar Abou Assi | Not available |
| 19- | Optimization of Tramadol-PVC membrane electrodes using miscellaneous plasticizers and ion-pair complexes | <u><i>Materials Science and Engineering C. 31. (2010) 300-306</i></u> | Hazem M. Abu Shawish, Salman M. Saadeh, Ayoub R. Al-Dalou, Nasser Abu Ghalwa and Anwar A. Abou Assi | 2.17 |

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|-----|---|--|---|---------------|
| 20- | Effect of plasticizers and ion-exchangers on the detection limit of tramadol- PVC membrane electrodes | <u><i>Eurasian Journal of Analytical Chemistry</i> 6 (2) (2011) 70-83</u> | Hazem M. Abu Shawish, Nasser Abu Ghalwa, Ayoub R. Al-Dalou, Farid R. Zaggout, Salman M. Saadeh and Anwar A. Abou Assi | Not available |
| 21- | A New Potentiometric Sensor for Determination of Pethidine Hydrochloride in Ampoules and Urine | <u><i>American Journal of Analytical Chemistry</i>, 2 (2011) 56-65</u> | Hazem M. Abu-Shawish, Nasser Abu Ghalwa, Ghada I. Khraish, Jehad Hammad | Not available |
| 22- | Electrochemical Degradation of Tramadol Hydrochloride. Novel Use of Potentiometric Carbon Paste Electrodes as a Tracer | <u><i>Arabian Journal of Chemistry</i> 7 (2014) 708-714</u> | Nasser Abu Ghalwa, Hazem M. Abu-Shawish, Farid R. Zaggout, Salman M. Saadeh, Ayoub R. Al-Dalou, Anwar A. Abou Assi | 1.4 |
| 23- | Determination of Pethidine Hydrochloride Using Potentiometric Coated Graphite and Carbon Paste Electrodes | <u><i>Drug Testing and analysis</i></u> | Hazem M. Abu-Shawish, Ayoub A. Dalou, Nasser Abu Ghalwa, Ghada I. Khraish, Jehad Hammad, Abdel-Hakem Basheer | 2.621 |
| 24- | Electrochemical degradation of linuron in aqueous solution using Pb/PbO ₂ and C/PbO ₂ electrodes | <u><i>Arabian Journal of Chemistry</i> 9(2016) s821-828</u> | Nasser Abu Ghalwa, Mazen Hamada, Hazem M. Abu Shawish, Omar Shubair | 1.4 |
| 25- | Modified Carbon Paste Electrode for Potentiometric Determination of Copper(II) Ion | <u><i>International Journal of Industrial Chemistry</i> 2 (2011) 253-260</u> | Salman M. Saadeh, Hazem M. Abu-Shawish, Aya Meqbel, Ghada I. Khraish | Not available |
| 26- | Modified carbon paste electrode for potentiometric determination of diquat dibromide pesticide in water and urine samples | <u><i>Materials Science and Engineering: C</i> 32 (2012) 140-145</u> | Hazem M. Abu Shawish, Nasser Abu Ghalwa, Mazen Hamada, Abdel-Hakem Basheer | 2.686 |

- 27- 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 (1) (2012) 7-13
 Nasser Abu Ghalwa, Mazen Hamada, Hazem M. Abu-shawish, Ashraf Abu Swareh, Mohammed Al Askalany, Tagreed Siam **2.905**
- 28- Lead(II) complexes with some SNO and ONO tridentate Schiff base ligands and their evaluation as lead(II) sensors
Materials Science and Engineering: C 32 (2012) 619-624
 Salman M. Saadeh, Hazem M. Abu Shawish, Hany M. Dalloul, Nabil M. Halabi, Baha Kh.Daher **2.686**
- 29- Electrochemical degradation of picric acid using C/PbO₂ and Pb/PbO₂ Electrodes
Global Journal of Environmental Science and Technology 2 (2012), 12
 Nasser Abu Ghalwa, Hassan Tamos, Hazem Abu Shawish, Mohamed ElAskalni and Abed Rhman El Agha Not available
- 30- Studies on degradation of diquat pesticide in aqueous solutions using electrochemical method
American Journal of Analytical Chemistry 3 (2012) 99-105
 Nasser Abu Ghalwa, Hazem M. Abu-Shawish, Mazen Hamada, Khaled Hartani, Abed Al Hakem Basheer Not available
- 31- Rapid and Inexpensive Densitometric Method, Using TLC Plates, for Quantification and Determination of Nine Pesticides in Water
Pakistan journal of chemistry 2 (2012) 1-7
 M. Hamada, N. A.Ghalwa, Hazem M. Abu-Shawish and O. Shubair Not available
- 32- Assay of tartrazine dye concentration in foodstuff products by new potentiometric carbon paste electrode
Sensor Letter, 10 (2012) 894-901
 Hazem M. Abu Shawish, Nasser Abu Ghalwa, Heba El harazeen **0.602**
- 33- Determination of benzalkonium chloride preservative in pharmaceutical formulation of eye and ear drops using new potentiometric sensors
Materials Science and Engineering: C 32, (2012) 2299-2305
 M. Gaber, Hazem M. Abu Shawish, Abdalla M. Khedr, Khalid I. Abed-Almonem **2.686**
- 34- A new potentiometric thiosalicylamide-functionalized polysiloxane carbon paste electrode for lead(II) determination
Journal of Electroanalytical Chemistry, 687 (2012) 11-17
 Salman M. Saadeh, Hazem M. Abu-Shawish, Khalid I. Abed-Almonem, Alaa Baraka, Ayat abu Mkhada, Walaa Safi **2.905**

35-	A comparative study of solid and liquid inner contact benzalkonium chloride ion-selective electrode membranes	<u><i>Talanta</i>, 101 (2012) 211-219</u>	Hazem M. Abu Shawish, Abdalla M. Khedr, Khalid I. Abed-Almonem, M. Gaber	3.794
36-	Development of novel potentiometric sensors for determination of tartrazine dye concentration in foodstuff products	<u><i>Food Chemistry</i>, 138 (2013) 126-132</u>	Hazem M. Abu Shawish, Nasser Abu Ghalwa, Salman M. Saadeh, Heba El Harazeen	3.655
37-	Determination the Electrochemical Degradation of E102 Dye at Lead Dioxide- Doped Carbon Electrodes using some Potentiometric and Spectrophotometric methods	<u><i>Chemistry Journal</i>, 3 (2013) 37-43</u>	Nasser Abu Ghalwa, Hazem M. Abu Shawish, Heba El Harazeen	Not available
38-	Modified carbon paste electrode for potentiometric determination of silver(I) ions in burning cream and radiological films	<u><i>Sensors and Actuators B</i> 182 (2013) 374– 381</u>	Hazem M. Abu-Shawish, Salman M. Saadeh, Hany M. Dalloul, Bassam Najri, Hassan Al Athamna	3.898
39-	Potentiometric Determination of Alkyl Dimethyl Hydroxyethyl Ammonium Surfactant by a New Chemically Modified Carbon Past Electrode	<u><i>Journal of Surfactants and Detergents</i> 17 (2014) 183–190</u>	Abdalla M. Khedr , Hazem M. Abu Shawish, M.Gaber , and Khalid I. Abed Almonem	1.545
40-	Nanomolar Detection of Alkyl Dimethyl Hydroxyethyl Ammonium Surfactant by a Lipophile-doped Solid Contact Electrode.	<u><i>Journal of Environmental Analytical Chemistry</i> 1 (2014)1-6</u>	Hazem M Abu Shawish, Abdalla M Khedr, M Gaber and Khalid I Abed-Almonem	Not available
41-	Determination of ephedrine hydrochloride in pharmaceutical formulations and in urine samples using a new coated graphite electrode	<u><i>Al-Aqsa University Journal</i> 20 (2016) 61-82</u>	Hazem M. Abu Shawish and Ghada I. Khraish	Not available
42-	A novel coated silver ketamine(I) electrode for potentiometric determination of ketamine hydrochloride in ampoules and urine samples	<u><i>Analytical Chemistry Research</i> 2 (2014) 30-36</u>	Hazem M. Abu Shawish, Salman M. Saadeh, Hassan Tamos, Khalid I. Abed-Almonem and Osama AlKhalili	Not available
43-	A new potentiometric sensor for the determination of ketamine hydrochloride in ampoules and urine	<u><i>Analytical Methods</i>, 7 (2015) 301-308</u>	Hazem M. Abu Shawish, Salman M. Saadeh, Hassan Tamos, Khalid I. Abed-Almonem and Osama AlKhalili	1.938

- 44- A new approach for decreasing the detection limit for a ketamine(I) ion-selective electrode **Materials Science and Engineering C** **49 (2015) 445–451** Hazem M. Abu Shawish, Salman M. Saadeh, Hassan Tamos, Khalid I. Abed-Almonem and Osama AlKhalili **2.736**
- 45- Determination of haloperidol drug in ampoules and in urine samples using a potentiometric modified carbon paste electrode **Measurement** **78 (2016) 180–186** Hazem M. Abu Shawish, Khaled I. Abed Almonem, Salman M. Saadeh, Wael S. Al-Iham **1.742**
- 46- Submicromolar determination of praepagen HY surfactant using new liquid inner contact electrodes **Journal of Molecular Liquids** **220 (2016) 454–458** Khalid I. Abed Almonem, Hazem M. Abu Shawish, AbdallaM. Khedr, Salman M. Saadeh, M. Gaber **2.74**
- 47- Determination of Trihexyphenidyl hydrochloride drug in tablets and urine using a potentiometric carbon paste electrode **Sensors and Actuators B** **235 (2016) 18–26** Hazem M. Abu Shawish, Mahmoud Elhabiby, Hadeel S. Abu Aziz, Salman M. Saadeh, Ahmad Tbaza **5.401**
- 48- Determination of haloperidol drug in ampoules and in urine samples using a potentiometric PVC-membrane and graphite coated wire electrodes **Marmara Pharmaceutical Journal** **21 (2017) 110-120** Hazem Abu Shawish, Hassan Tamous, Asma A. Shaheen, Khaled I. Abed Almonem, Ahmed Awad Elgamel, Wael S. Al-Iham **0.137**
- 49- Enhanced transport of nandrolone decanoate drug by Human Serum Albumin in presence of [BMIM]PF₆ and [BMIM]BF₄ **Acta Chimica Slovenica.** **65 (2018) 638–654** Zeyad J. Yasseen, Salman M. Saadeh, Hazem M. Abu Shawish **1.104**
- 50- Determination of atomoxetine hydrochloride in biological fluids using potentiometric carbon paste electrode modified by TiO₂ nanoparticles **Acta Chimica Slovenica.** **65 (2018) 811-822** Hazem Abu Shawish, Hassan Tamous, Salman saadeh, Ahmad Tbaza **1.104**
- 51- Drastic Enhancement of a 5-Fluorouracil Electrode by Praepagen HY Micellar Solutions **Microchemical Journal.** **152 (2020) 104316** Hazem M. Abu Shawish, Nasser Abu Ghalwa, Iyad D. Al-Kashef, Salman M. Saadeh, Khalid I. Abed Almonem **3.206**

52-	Comparative Effects of Surfactants on the Behavior of an Anticancer Drug Potentiometric Sensor	<u><i>Analytical Methods, in press (2020)</i></u>	Nasser Abu Ghalwa, Khalid I. Abed Almonem, Iyad D. Al-Kashef, Salman M. Saadeh, Hazem M. Abu Shawish	2.073
53-	Fabrication and evaluation of potentiometric sensors of an anticancer drug (Gemcitabine)	<u><i>European Journal of Chemistry, 11 (2020) 21-29</i></u>	Iyad D. Al- Kashef, Salman M. Saadeh, Khalid I. Abed, Almonem, Nasser Abu Ghalwa, Hazem M. Abu Shawish	0.4531
54-	Improvement of performance of anti-cancer (dacarbazine) drug sensor utilizing tetraphenylborate anion	<u><i>GSC Biological and Pharmaceutical Sciences, 11 (2020) 92-103</i></u>	Iyad D. Al- Kashef, Salman M. Saadeh, Khalid I. Abed, Almonem, Hazem M. Abu Shawish, Nasser Abu Ghalwa,	Not available

List of Referees:-

a. Professor Yousry M. Issa

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