

NAME: Nawal Ahmad Alarfaj

NATIONALITY: Saudi

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CURRENT POSITION

Professor of Analytical Chemistry in the Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

POSITIONS

1. Professor of Analytical Chemistry, Department of Chemistry, College of Science, King Saud University, KSA, 2011.
2. Associate Professor in the Department of Chemistry, College of Science, King Saud University, KSA. December 2007- 2011.
3. Assistant Professor in the Department of Chemistry, College of Science, King Saud University, KSA. February 2000 – December 2007.
4. Lecturer in the Department of Chemistry, College of Science, King Saud University, KSA. November 1988 – February 2000.
5. Demonstrator in the Department of Chemistry, College of Science, King Saud University, KSA. October 1979 – November 1988.

ADMINISTRATIVE ASSIGNMENT

1. Assistant of the Vice Rector of students affairs in King Saud University 5/3/2012- 22/1/2015.
2. Vice Dean, Women Students – Medical Studies and Sciences Sections, King Saud University, Riyadh, KSA. October 2002 – February 2009.
3. Vice Chairman, Chemistry Department, College of Science, King Saud University, Riyadh, KSA. September 2000 – August 2002.

Academic degrees:

B.A. / B.Sc.	University: Kuwait University	College: Science
	University location (city state country): Kuwait / Kuwait	
	Date of obtaining degree: 14 \ 9 \ 1399 H	8 \ 7 \ 1979 Gregorian

M.A./M.Sc.	University: King Saud University	College: Science
	University location (city state country): Riyadh / Saudi Arabia	
	Date of obtaining degree: 21 \ 11 \ 1408 Hijri	5 \ 7 \ 1988 Gregorian

Master's study method: Thesis Courses Thesis and Courses
Title of Master's thesis: **Complexometric- Spectrophotometric Determination of Tetracyclines in Pharmaceutical Preparations.**
Advisor's name: **Professor Salah M. Sultan**

Ph.D. University: **King Saud University** College: **Science**
or University location (city|state|country): **Riyadh / Saudi Arabia**
Date of obtaining degree: **24 \ 5 \ 1420 Hijri** **4 \ 9 \ 1999 Gregorian**
Fellowship Title of Ph.D. dissertation: **Chemiluminescence in Drug Determination**
Advisor's name: **Professor Abdulrahman A. Alwarthan**
Applicant's major and minor: **Chemistry / Analytical Chemistry**

Academic Experience (Teaching):

1. Lecturer / Department of Chemistry -College of Science – King Saud University
101 Chem – 251 Chem - 255 Chem – 354 Chem – 355 Chem – 450 Chem – 259 Chem –
459 Chem – 498 Chem.
2. Assistant Professor / Department of Chemistry -College Of Science – King Saud
University:101 Chem – 105 Chem - 254 Chem – 255 Chem – 456 Chem – 457 Chem – 498
Chem – 550 Chem – 600 Chem,
3. Associate Professor / Department of Chemistry -College Of Science – King Saud University:
550 Chem – 552 Chem - 600 Chem – 660 Chem – 650 Chem – 498 Chem – 499 Chem – 456
Chem – 452 Chem.
4. Professor of Analytical Chemistry / Department of Chemistry - College of Science – King
Saud University: 499 Chem – 596 Chem - 550 Chem – 551 Chem - 552 Chem – 596 Chem -
600 Chem – 660 Chem – 650 Chem – 651 Chem– 653 Chem – 699 Chem.

*SUPERVISOR AND EXAMINER OF SOME RESEARCH PROJECTS, MSc AND Ph.D THESES

*REVIEWING AND EDITORIAL BOARDS OF SCIENTIFIC JOURNALS

1. Member of Editorial Board of ISRN Pharmaceutics Journal.
2. LUMINESCENCE: The Journal of Biological and Chemical Luminescence.
3. Journal of Pharmaceutical and Biomedical Analysis.
4. Talanta.

Committees:

1. Head of the College Exhibition Committee for the Celebration of King Saud University
50th anniversary / Women Students - Medical Studies and Sciences Sections,
(2005/2006) , King Saud University.

2. Member of the Permanent Consultation Committee for the Development of the Women Students - Medical Studies & Sciences Sections , King Saud University (2002 – 2015)
3. Member of the Committee for the Nomination of the Distinguished Academic Student for the reward of the wife of the Custodian of the Two Holy Mosques , (2001- 2007)
4. Head of the College Scientific Exhibition Committee of the University and Community Week , (2005) , King Saud University .
5. Head of the College of Science Committee of the University and Community Week (2001) , King Saud University .
6. Member of the Scientific Instrument Committee in Chemistry Dept ., (1997-2001), Women Students - Medical Studies and Sciences Sections – King Saud University .
7. Member & Chairman of Cultural Contest Committee within the nonacademic activities in the Women Students - Medical Studies & Sciences Sections , (1997-2002) , King Saud University.
8. Head of the Environmental Committee in the Women Students - Medical Studies & Sciences Sections , (2001-2003) , King Saud University .
9. Head of the Laboratory Committee in the Women Students - Medical Studies and Sciences Sections , King Saud University .
10. Chairman of the purchasing and permanent loan unit and the distributor for the budget of the Women Students - Medical Studies & Sciences Sections , (2002-2009) , King Saud University .
11. Supervisor of the animal house in the center of Women Students-Medical Studies Studies & Sciences Sections , (2009-2018), King Saud University.
12. Supervision of committee of Storing and Distribution of Chemicals in College of Science, Women Students-Medical Studies and Sciences Sections, King Saud University (2009-2011).
13. Member of Standing Committee to Discipline Students, King Saud University (2009-2013).
14. Member of Scientific Publishing committee, King Saud University (2012-2013).
15. Member of Scientific and Health Promotion committee, King Saud University (2013-2016).

PARTICIPATION IN CONFERENCES, SYMPOSIA AND OTHER ACTIVITIES:

A. Conferences:

1. International conference on Chemistry and Industry, Future Trends for the Third Millennium, (3-6/2/2000), Department of Chemistry and Saudi Chemical Society, College of Science – King Saud University (Listener).
2. International Conference on Chemistry and Industry, Future Trends for the Third Millennium, Second Circular, (27/11-1/12/2004), Department of Chemistry and Saudi Chemical Society, College of Science – King Saud University (Listener).

3. Conference of University – Private Sector Partnership in Research & Development: 13/3/1426 H (10-12/4/2005), King Saud University (Listener).
4. The third Saudi conference on Science, (New Trends for Science and its Applications), (10-13/3/2007), college of Science – King Saud University (Attendant).
5. Conference and workshop of "Nano Research at University, The Road Toward Fulfilling the vision of Custodian of the Two Holy Mosques" (28-29/10/2007), King Saud University (Listener).
6. The Seventh Saudi Engineering Conference: Towards Engineering Environment to Merge in Competitive Global Economy, (2-5/12/2007), King Saud University (Listener).
7. Fourth International Conference for Development and Environment, (17-18/3/2008), King Saud University, Riyadh (Attendant).
8. The Eighteenth International Conference on Protecting Environment is a must, (10-12/5/2008), Alexandria, Egypt (Attendant).
9. The Eleventh Eurasia Conference on Chemical Sciences, (6-10/10/2010), Amman, Jordan, (Attendant).
10. The Fifth International Conference of Chemistry and Environment, (28-30/5/2011), Port Dickson, Malaysia (participate with a paper entitled: "Kinetic and Spectrophotometric Methods for Determination of Two Hypoglycemic Drugs, Pioglitazone Hydrochloride and Glimepiride in Their Pharmaceutical Formulations").
11. International Conference on Global Trends in Pure and Applied Chemical Sciences, (3-4/3/2012), Udaipur, India (participate with a paper entitled: "Complexometric-Spectrophotometric Determination of Cisapride and Tiapride in their Formulations").
12. 2nd International Conference on Environmental Pollution and Remediation, (28-30/8/2012), Montreal, Canada (attendant).
13. 5th International Conference on Water Resources and Arid Environments, (7-9/1/2013), King Saud University, Riyadh (attendant).
14. 1st Annual International Conference on Chemistry, Chemical Engineering and Chemical Process, (25-26/2/2013), Singapore, participate with a paper entitled: "New Validated Electrochemical Determination of beta blocker Alprenolol Hydrochloride in its Pharmaceutical Formulations".
15. The "Second international symposium on Analytical Chemistry for a Sustainable Development" - ACSD 2013 and the 4th Federation of African Societies of Chemistry (FASC) Congress, (7-9/5/2013), Marrakech, Morocco, participate with a paper entitled: "Spectrofluorometric and Spectrophotometric Methods for Determination of Antiviral Drug-Ribavirin in its Dosage Forms and Plasma".
16. The "International summit on Past and Present Research Systems of Green Chemistry", (25-27/8/2014), Philadelphia, USA (attendant).

B. Symposia:

1. Symposium on Child Welfare, (26-29/11/1995), King Saud University Women Students- Medical Studies and Sciences Sections (Listener).
2. The Fourth Symposium on Food in Health and Disease, (9-12/3/1997), King Saud University, Women Students- Medical Studies and Sciences Sections (Listener).
3. The Fifth Symposium on Youth: Present and Future, (19-21/4/1998), King Saud University, Women Students- Medical Studies and Sciences Sections (Listener).
4. National Symposium on Materials Science, (29/11-1/12/1998), King Saud University (Listener).
5. The Sixth Symposium on Natural Products : Advantages and Disadvantages (25-27/3/2001) , King Saud University, Women Students – Medical Studies and Sciences Sections (Organizer) .
6. Post Graduate Studies Symposium in Chemistry in Saudi Universities, (23/4/2001), King Faisal Conference Hall, Riyadh Intercontinental Hotel (Listener).
7. The Seventh Symposium on Modern Technology and its effects on Human and Environment , (1-3/4/2002) , King Saud University, Women Students – Medical Studies and Sciences Sections (Listener).
8. Symposium on Scientific Research, Cooperation methods and Publishing, (7/5/2003), King Saud University (Listener).
9. The Fourth Symposium on Standards and Procedures for Quality Assurance and Accreditation (National Commission for Academic Accreditation & Assessment), (1-2/5/2005) , King Faisal Conference Hall , Riyadh Intercontinental Hotel (Attendance)
10. Symposium of Divorce in Saudi Society, (5-7/3/2006), Women Students – Medical Studies and Sciences Sections (Listener).
11. Challenges Symposium, (6-8/3/2006) , King Faisal University in Dammam, Women Students Section (Attendant).
12. Symposium of Genetic and society, (17- 18/4/2006), Women Students- Medical Studies & Sciences Sections, King Saud University (Attendant).
13. Awareness symposium of technology incubators, (3-4/3/2008), Women Students- Medical Studies & Sciences Sections, King Saud University (Attendant).
14. Symposium on Plastic Surgeries in Focus, (16-17/3/2010), Research Center in Women Students-Medical Studies and Sciences Sections, King Saud University (attendant).
15. 1st International Symposium on Chemical Safety, (17-20/4/2011), Women Students- Medical Studies & Sciences Sections, King Saud University (Organizer).
16. Symposium on Restructuring Colleges: reality and ambition , (7-8/10/2012), King Saud University (Attendant).
17. Women's Higher Education Symposium: Growth to Competition , (14-15/1/2013), King Saud University (Attendant).

C) University and Committee Services:

1. Supervision of five Ph.D. and more than 18 Master thesis in Chemistry Department, College of Science - King Saud University.
2. International Examiner of Master and Ph. D thesis in Chemistry Department, College of Science and Pharmaceutical Chemistry Department – College of Pharmacy - King Saud University.
3. International Examiner of Ph. D thesis in Chemistry Department, College of Science – Princess Noura Bint Abdulrahman University – KSA.
4. Arbitration of research projects for Taibah University, Al-Jouf University, Taif University and King Fahd Security College .
5. Arbitration of research projects for the promotion of faculty members at Najran University.
6. Arbitration of research projects for the promotion of faculty members at the University of Tikrit in the Republic of Iraq.
7. Organization and attendance of the 3rd Arabic Women Conclusion festival of the year 2004 , Women Students - Medical Studies and Sciences Sections (Organized by Bait Al Maamora establishment for computing , medical , scientific and industrial instruments) .
8. Attendance of the First Scientific Meeting of the Chairmen of the Academic Departments (27/4/2003) , King Saud University .
9. Teaching " General Chemistry " course for the students of Riyadh Private College of Dentistry and Pharmacy, First Term (2003-2004) , Riyadh , Saudi Arabia.
10. The Fifth Workshop on Preparing National Staff , Prince Salman Social Center, Riyadh (18/1/2003).
11. Presentation of a paper written within a team of researchers titled " What does the Academic Society need from the Educational Staff (21/12/2002) , King Saud University .
12. Teaching " General Chemistry -1- " course for the students of the preparatory course for admission to the Applied Sciences and Community Services College , Second Term 2004-2005 , King Saud University .
13. Attendance of the workshop : The Optimal Way to Prepare an Academic Schedules (12/4/2002) , King Saud University .
14. Preparation & Presentation of a lecture titled " Environmental Pollution " within the Cultural Activities in the Women Students - Medical Studies & Sciences Sections , Second Term (2003-2004) , King Saud University .
15. Presentation of the first meeting of the Scientific Committee of Saudi Women Researchers Journey of Success Scientific Accomplishments of : Arabian Gulf Woman (14-15/2/2004) , Research Center in King Faisal Specialist Hospital and Research Center , Riyadh , Saudi Arabia .

16. Chairman of the purchasing and permanent loan unit and the distributor for the budget of the Women Students - Medical Studies & Sciences Sections , (2002-2009) , King Saud University .
17. Global Warming Camping Activities, 24-25/11/2007, Medical Studies & Sciences Sections-King Saud University (Listener).
18. Developing Science & Mathematics Education: Vision & International Partnership (8-9/1/2008),Medical Studies & Sciences Sections-King Saud University.
19. Awareness Day of Nano technology (20/1/2008), Women Students - Medical Studies & Sciences Sections-King Saud University (Listener).
20. Volunteers in all fields (12/3/2008 G), Women Students -Medical Studies & Sciences Sections, King Saud University (Listener).
21. Strategic Planning workshop (15/3/2008 G), for King Saud University (Listener).
22. Chinese Experience in Nano Industry Workshop (25-27/5/2008), King Abdullah Institute for Nanotechnology - Riyadh - Saudi Arabia.
23. Bench-Marking of Chemistry Department with two universities in Canberra and Sidney, Australia, (3-5/10/2008).
24. Reviewer of some Researches in Three International Scientific Journals.
25. Supervisor of the Animal House in the center of Women Students-Medical Studies and Sciences Sections, King Saud University (2009-2018).
26. Supervision of Tests Measurement and Evaluation Committees for the high schools students in Riyadh east and west centers (2010).
27. First Workshop on Chemical Safety, Intercontinental Hotel, Riyadh (18-19/5/2010).
28. Workshop of Ally Towards the Promotion Program of Applied Education, King Saud University (10/6/2009).
29. Research Center Day "The Role of Research Center in Leadership & Excellence", Research Center, Women Students-Medical Studies and Sciences Sections, King Saud University (18/10/2009).
30. Chairman of the Purchasing and Permanent loan Unit and the Distributor for the Budget of the Women Students-Medical Studies and Sciences Sections, King Saud University (2002-2009).
31. Workshops on "Planning for building Assurance system in high education", Neyara Hotel, Riyadh (24-28/5/2008).
32. Workshop on The Role of Staff Members in getting use of Rewards of Excellence in Saudi Universities, King Saud University (2008).
33. Workshop on Analyzing the Strength and Weakness Parameters and Available Chances and Challenges (SWOT), King Saud University (15/3/2008).

34. Volunteers in all Fields workshop, Women Students-Medical Studies and Sciences Sections, King Saud University (12/3/2008).
35. New Faculty Grants Program Workshop, King Saud University (2009).
36. Workshop on Strategic Plan of KSU 2030, Revision of development movement, King Saud University (28/12/2012).
37. Exhibition of Center for Excellence in Learning and Teaching, King Saud University (5/1/2012).
38. Activities of Chemistry Club "Crazy of Chemistry", Women Students-Medical Studies and Sciences Sections, King Saud University (20/11/2012).
39. Workshop on Developing of Scientific Research in King Saud University, King Saud University (5/2/2013).
40. "Sixth research day", girls research center of scientific and medical sections, King Saud University (16-17/12/2014, 24-25/2/1436 H).
41. Program in: "First Aid and Safety" in King Saud University (26-27/4/2016) for a total of 10 training hours.

MEMBERSHIP OF SOCITIES AND COMMITTES

1. Membership in Saudi Chemical Society, Riyadh, Saudi Arabia, (1415 H till present).
2. Member of Comprehensive Exams for Ph.D. students in Chemistry Department, King Saud University, KSA, (2007 till present).
3. Member of the Standing Committee for the use of Saudi faculty members after retirement (2011-2012).
4. Member of Standing Committee to Discipline Students, King Saud University (2009-2016).
5. Member of Scientific Publishing committee, King Saud University (2012-2013).
6. Member of Scientific and Health Promotion committee, King Saud University (2013-2016).

Scholarships and awards:

Encouragement rewards from Rector of King Saud University in 1401, 1402 and 1403 H (1981, 1982 and 1983 G).

LIST OF PUBLICATIONS

1. Salah M. Sultan, Ibrahim Z. AL-Zamil and **Nawal A. Alarfaj**, "Complexometric – spectrophotometric assay of tetracyclines in drug formulations", *Talanta*, 35 (1988) 375 – 378.

2. Fatma A. Aly, **Nawal A. Alarfaj**, Abdulrahman A. Alwarthan, "Flow – injection chemiluminometric determination of some pheno-thizines in dosage forms and biological fluids". *Analytica Chimica Acta*, 358 (1998) 255 – 262.
3. Fatma A. Aly, **Nawal A. Alarfaj**, Abdulrahman A. Alwarthan, "Permanganate – based chemiluminescence analysis of cefadroxil monohydrate in pharmaceutical samples and biological fluids using flow injection", *Talanta*, 47 (1998) 471 – 478.
4. Fatma A. Aly, **Nawal A. Alarfaj**, Abdulrahman A. Alwarthan, "Sensitive assay for clavulanic acid and sulbactam in pharmaceuticals and blood serum using a flow – injection chemiluminometric method". *Analytica Chimica Acta*, 414 (2000)15-23.
5. Fatma A. Aly, **Nawal A. Alarfaj**, Abdulrahman A. Alwarthan, "Flow – injection chemiluminometric analysis of some benzamides by their sensitizing effect on the cerium – sulphite reaction", *Talanta*, 54 (2001)715 – 725.
6. **Nawal A. Alarfaj**, "Fluorimetric determination of isoxsuprine hydrochloride in pharmaceuticals and biological fluids", *Journal of Pharmaceutical and Biomedical Analysis*, 28 (2001) 335-231.
7. **Nawal A. Alarfaj**, "Flow- Injection chemiluminescence determination of enalapril maleate in pharmaceuticals and biological fluids using Tris (2,2-bipyridyl) ruthenium (II)" , *Analytical Sciences*, 19 (2003) 1145 –1149.
8. **Nawal A. Alarfaj**, "Flow-injection chemiluminescent determination of metoclopramide hydrochloride in pharmaceutical formulations and biological fluids using the $[\text{Ru}(\text{dipy})_3^{2+}]$ - permanganate system " *Talanta*, 62 (2004) 255 – 263.
9. **Nawal A. Alarfaj**, Saad A. AL–Tamrah, Hanan Y. AL–Yousif, "Spectrophotometric determination of some cephalosporins in pharmaceutical formulations", *J . Saudi Chemical Society*, 9 (2005) 225 – 236.
10. **Nawal A. Alarfaj**, Sawsan A. Abd EL–Razeq, "Flow-injection chemiluminescence determination of cefprozil using Tris (2.2-bipyridyl) ruthenium (II) Permanganate system", *Journal of Pharmaceutical and Biomedical Analysis*, 41 (2006) 1423-1427.
11. **Nawal A. Al Arfaj**, Zinat M. EL-Khayate, Eglal A. Moussa, "Polarographic behaviour of some acid dyes", *J. Saudi Chemical Society*, 3 (2005) 467-474.
12. **Nawal A. Alarfaj**, Sawsan A. Abd EL–Razeq, Maha A. Sultan, "Spectrofluorimetric determination of paroxetine hydrochloride in its formulations and human plasma", *J. Chemical & Pharmaceutical Bulletin*, 54 (2006) 564-566.
13. **Nawal Alarfaj**, Heba H. Abdine, Maha A. Sultan, "Sensitive Assay for carvedilol in tablets and spiked human plasma using a flow – injection chemiluminometric method", *International Journal of Biomedical Science* , 3 (2007) 132 – 137.
14. **Nawal A. Alarfaj**, Maha A. Sultan, Heba H. Abdine, "A flow injection chemiluminescence method for the determination of Alendronate sodium by suppression of Cu (II) enhancement luminol – H_2O_2 reaction", *J. Saudi Chemical Society*, 11 (2007) 213-220.
15. **Nawal A. Al Arfaj**, Zinat M. EL-Khayate, Eglal A. Moussa, "Spectrophotometric studies on aggregation of some acid dyes in different media", *J. King AbdulAziz University, (Science)*, 20 (2008) 1319-1012.
16. **Nawal A. Alarfaj**, Sawsan A. Abd EL–Razeq, Aziza A. AL-Hoshan, "Spectrophotometric determination of nafcillin sodium in pure form, tablets and biological fluids", *J. Saudi Chemical Society*, 12 (2008) 35-46.

17. Sawsan A. Abd EL-Razeq, **Nawal Alarfaj**, "Kinetic Spectrophotometric Determination of Paroxetine Hydrochloride in Formulations and Biological Fluids", *J. Anal. Chem. (Egypt)*, 17 (2008) 85-97
18. **Nawal A. Alarfaj**, Salma A. AL-Tamimi, Latefah Z. AL-Marshady, "Spectrophotometric Determination of Mefenamic Acid in Pharmaceutical Preparations", *Asian Journal of Chemistry*, 1 (2009) 217-216.
19. **Nawal A. Alarfaj**, Eman Abdullah AL-Abdulkareem and Fatma A. Aly, "A Validated Adsorptive Stripping Voltammetric Determination of Antidiabetic Agent Pioglitazone HCl in Tablets and Biological Fluids", *International Journal of Biomedical Science*, 4 (2008) 310-318.
20. **Nawal A. Alarfaj**, Salma A. AL-Tamimi and Latefah Z. AL- Marshady, "Spectrophotometric determination of trimethoprim in pure form and pharmaceutical preparations using tropeolin OO and 2,3 - dichloro - 5, 6- dicyano -p- benzoquinone", *Biosciences, Biotechnology Research Asia*, 2 (2007) 463-470.
21. **Nawal A. Alarfaj**, Sawsan Abdel-Razeq and Samar El-Dosarry, "Spectrophotometric Methods for the Determination of Alfuzosin-HCl and Carvedilol in their Formulations, *J. Anal. Chem.*, 18 (2009) 80-91.
22. **Nawal A. Alarfaj**, "Adsorptive Stripping Anodic Voltammetric Determination of Thioctic Acid in Bulk and Pharmaceutical Formulations", *International Journal of Biomedical Science*, 5 (2009) 54-58.
23. **Nawal A. Alarfaj**, Eman A. AL-Abdulkareem, and Fatma A. Aly, "Flow-Injection chemiluminometric determination of pioglitazone HCl by its sensitizing effect on the cerium-sulfite reaction", *ANALYTICAL SCIENCES*, 25 (2009) 401-406.
24. **Nawal A. Alarfaj**, Eman A. AL-Abdulkareem and Fatma A. Aly, "Determination of enalapril maleate and atenolol in their pharmaceutical products and in biological fluids by flow-injection chemiluminescence", *Luminescence, The Journal of Biological and Chemical Luminescence*, 24 (2009) 422-428.
25. **Nawal A. Alarfaj**, Sawsan A. Abd EL-Razeq and Fatma N. AL-Qahtani, "Spectrophotometric determination of Gabapentin in pharmaceutical formulation using ninhydrin and 1,2-naphthoquinone-4-sodium sulphonate", *International Journal of Chemistry*, 20 (2010) 53-60.
26. **Nawal A. Alarfaj**, Sawsan A. Abd EL-Razeq and Fatma N. AL-Qahtani, "Spectrophotometric Determination of Alendronate Sodium in Bulk Drug and in Pharmaceutical Formulation", *Asian Journal of Chemistry*, 23 (2011) 697-700.
27. Salah M. Sultan, Hatim D. Mohamed, Abdulmuttalib Jaber and **Nawal A. Alarfaj**, "Sequential Injection Spectrophotometric Method for the Assay of Anti-inflammatory Diclofenac Sodium in Pharmaceutical Preparations", *Journal of Flow Injection Analysis*, 27 (2010) 49-55.
28. **Nawal A. Alarfaj**, Sawsan A. Abd EL-Razeq and Hessa M. AL-Sehaly, "Determination of Josamycin and Ciprofloxacin in their Pharmaceutical Dosage Forms by Spectrophotometry", *Asian Journal of Chemistry*, 23 (2011) 3362-3366.
29. **Nawal A. Alarfaj**, Wedad A. Al-Onazy and Amina M. EL-Brashy, "Spectrophotometric Determination of Candesartan Cilexetil in Presence of its Alkaline Induced Degradation Product", *Asian Journal of Chemistry*, 23 (2011) 1696-1700.

30. **Nawal A. Alarfaj**, "Stability-indicating liquid chromatography for determination of clopidogrel bisulfate in tablets. Application to content uniformity testing", *J. Saudi Chemical Society*, 16 (2012) 23-30.
31. **Nawal A. Alarfaj**, Eman A. Al-Abdulkareem and Fatma A. Aly, "Spectrofluorimetric determination of pioglitazone hydrochloride and glimepiride in their formulations and biological fluids", *Asian Journal of Chemistry*, 23 (2011) 3441-3444.
32. **Nawal A. Alarfaj**, Sawsan A. Abd EL-Razeq, Aziza A. AL-Hoshan, "Spectrophotometric determination of pioglitazone hydrochloride in tablets and urine", *Asian Journal of Chemistry*, 23 (2011) 4104-4108.
33. **Nawal A. Alarfaj**, Maha F. EL-Tohamy, "New Validated Potentiometric Determination of Vasodilator Pentoxifylline in its Pharmaceutical Formulations and Biological Fluids", *Journal of the Chinese Chemical Society*, 58 (2011) 1-8.
34. **Nawal A. Alarfaj**, Maha F. EL-Tohamy, "Comparative Potentiometric Study for Determination of Azithromycin Using Conventional PVC and Multi-Walled Carbon Nanotubes Sensors", *International Journal of ELECTROCHEMICAL SCIENCE*, 7 (2012) 8213–8225.
35. **Nawal A. Alarfaj**, Maha F. EL-Tohamy, "Electrochemical sensors for direct potentiometric determination of Voriconazole in pharmaceutical dosage forms and biological fluids", *International Journal of Physical Sciences*, 7 (2012) 1403 – 1411.
36. **Nawal A. Alarfaj**, Azza A. Mostafa, Zinah A. AL-Ghamdi, "Complexometric-Spectrophotometric Determination of Cisapride and Tiapride in Their Formulations", *Asian Journal of Chemistry*, 24 (2012) 5507-5510.
37. **Nawal A. Alarfaj**, Mohamed Abu Elhassan Abdalla and Alawiya M. AL-Hamza, "A Sensitive Electrogenerated Chemiluminescence Assay For Determination of Melanin in Natural and Biological Samples", *International Journal of ELECTROCHEMICAL SCIENCE*, 7 (2012) 7888–7901.
38. **Nawal A. Alarfaj**, Fatma A. Aly, Maha F. EL-Tohamy, "Potentiometric Determination of Cholesterol-Reducing Drug, Ezetimibe Using Coated Wire Membrane Sensors", *SENSOR LETTERS*, 9 (2011) 1-8.
39. Salma A. Al-Tamimi, **Nawal A. Alarfaj**, Hanan S. AL-Hashim, "Kinetic and Spectrophotometric Methods for Determination of Two Hypoglycemic Drugs, Pioglitazone Hydrochloride and Glimepiride in their Pharmaceutical Formulations", *Research Journal of Chemistry and Environment*, 15 (2011) 963-972.
40. **Nawal A. Alarfaj**, Fatma A. Aly, "Micelle-Enhanced Spectrofluorimetric Method for Determination of Cholesterol-Reducing Drug Ezetimibe in Dosage Forms", *Journal of Fluorescence*, 22 (2012) 9-15.
41. Reda A. Ammar, **Nawal A. Alarfaj**, Maha F. EL-Tohamy, "Potentiometric Study of 1, 2-Diphenylethylenediamine Palladium (II) Complex with Some Selected Amino Acids", *Int. J. Electrochem. Sci.*, 7 (2012) 1512–1521.
42. **Nawal A. Alarfaj**, Reda A. Ammar, Maha F. EL-Tohamy, "Disposable screen-printed sensors for determination of duloxetine hydrochloride", *Chemistry Central Journal*, 6 (2012) 1-8.
43. **Nawal A. Alarfaj**, Maha F. EL-Tohamy, "Electrochemical sensors for direct potentiometric determination of Voriconazole in pharmaceutical dosage forms and biological fluids", *International Journal of Physical Sciences*, 7 (2012) 1403 – 1411.
44. **Nawal A. Alarfaj**, Maha F. EL-Tohamy, "Carbon Paste and Modified Carbon Nanotubes Paste

Sensors for Determination of Reducing-Osteoarthritis Drug Glucosamine Sulphate in Bulk Powder and in its Pharmaceutical Formulations", International Journal of ELECTROCHEMICAL SCIENCE, 7 (2012) 11023–11034.

45. Sahar F. bin-Ibrahim, **Nawal A. Alarfaj** and Fatma A. Aly, "Determination of Clopidogrel Bisulphate using Ion-Selective Electrodes in Bulk, Pharmaceutical Formulation and in Biological Fluids", Journal of American Science, 8 (2012) 276-283.
46. **Nawal A. Alarfaj**, Wedad A. Al-Onazy, Amina M. EL-Brashy, "Spectrophotometric Bivariate Method for Determination of Candesartan Cilexetil in Presence of its Alkaline Induced Degradation Product", Asian Journal of Chemistry, 25 (2013) 719-725.
47. **Nawal A. Alarfaj**, Fatma A. Aly, Abeer A. AL-Qahtany, "Flow-injection chemiluminescence and electrogenerated chemiluminescence determination of escitalopram oxalate in tablet form", LUMINESCENCE, The Journal of Biological and Chemical Luminescence, 28 (2013) 84-92.
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