

Personal Information

Name: **Eman Saad Hassan Elzanfaly**

Nationality: Egyptian

E-mail: esaad@ecu.edu.eg

eman.elzanfaly@pharma.cu.edu.eg

eman.elzanfaly@gmail.com



Address: Pharmaceutical Chemistry Department - Faculty of Pharmacy and Drug Technology – ECU University

Address of Permanent Institution: Analytical Chemistry Department -Faculty of Pharmacy– Cairo University

H index: **14**

Education

- PhD Pharmaceutical Sciences (Analytical Chemistry) -Faculty of Pharmacy - Cairo University, 2002
- M.Sc. Pharmaceutical Sciences (Analytical Chemistry) -Faculty of Pharmacy - Cairo University, 1998
- B.Sc. Pharmaceutical Sciences- (Excellent, Honour) -Faculty of Pharmacy - Cairo University, 1992

Academic Positions

- **Professor** of Analytical Chemistry, Faculty of Pharmacy and Drug Technology - ECU University (9/2020 till now).

- **Professor** of Analytical Chemistry, Faculty of Pharmacy - Cairo University (10/2018 till now).
- **Assistant Professor** of Analytical Chemistry, Faculty of Pharmacy - Cairo University (9/2013 – 10/2018).
- **Associate Professor** of Analytical Chemistry – Faculty of Science – Haiel University KSA (2002 – 2010).
- **Lecturer** of Analytical Chemistry, Faculty of Pharmacy - Cairo University (2002 –2013)
- **Assistant Lecturer** of Analytical Chemistry, Faculty of Pharmacy - Cairo University (1998 – 2002).
- **Instructor** of Analytical Chemistry, Faculty of Pharmacy - Cairo University (1993 – 1998)

Managerial Positions

- **Vice Dean for Students Affairs**, Faculty of Pharmacy and Drug Technology - ECU University (Sep. 2021 till now).
- **Head of Pharmaceutical Chemistry Department**, Faculty of Pharmacy and Drug Technology - ECU University (Sep. 2020 till Sep.2021).
- **Director of Center of Applied Research and Advanced Studies (CARAS)** in Faculty of Pharmacy – Cairo university (Sep. 2013 till Jan. 2019).
- **Deputy Director and Technical Manager of Center of Applied Research and Advanced Studies (CARAS)** in Faculty of Pharmacy – Cairo university (Sep. 2011 – Sep. 2013).
- **Head of Chemistry Department**, Faculty of Faculty of Science – Haiel University - KSA (2007 – 2010)

Community Services

During being a technical manager then manager of CARAS the center performed the following services for the pharmaceutical companies:

- **Bioequivalence studies (20)**
- **Dissolution studies (30)**
- **Stability studies (30)**
- **Arrangement and delivery of workshops (9)**
- **Consultation services.**

I was **the principal investigator** for all the performed studies besides being responsible for analytical method development and validation for the studies.

I also **Participated in the purchasing steps for several instruments (LC-MS/MS, HPLC)**

Teaching activities

Course	Institute
Qualitative Inorganic Chemical Analysis	1- Faculty of Pharmacy and Drug Technology - ECU University 2- Faculty of Pharmacy- Cairo University 3- Faculty of Science- Haiel University- KSA
Quantitative Chemical Analysis	1- Faculty of Pharmacy and Drug Technology - ECU University 2- Faculty of Pharmacy- Cairo University 3- Faculty of Science- Haiel University- KSA
Instrumental Methods of Analysis	1- Faculty of Pharmacy and Drug Technology - ECU University

	2- Faculty of Pharmacy- Cairo University 3- Faculty of Science- Haiel University- KSA
General and Physical Chemistry.	1- Faculty of Pharmacy- Cairo University 2- Faculty of Science- Haiel University- KSA
Drug Quality Control	1- Faculty of Pharmacy- Future University
Post graduate courses for Master students -Stability indicating assay methods -Scientific writing	1- Faculty of Pharmacy- Cairo University
Post graduate courses for Diploma students -Laboratory audit for quality - Analytical Toxicology (Online)	1- Faculty of Pharmacy- Cairo University

Training courses and workshops attended

- 1) Staff development courses in Cairo University (**12** training courses in the field of staff development).
- 2) Multivariate data analysis and design of experiments. At Faculty of Pharmacy - university of Kebangesan, Malaysia 19-22 Nov. 2009.
- 3) Workshop entitled "المعايير الاكاديميه للبرنامج الدراسي" Faculty of Pharmacy – Cairo university, 5/1/2011.
- 4) Workshop entitled معايير الدراسة الذاتية و التقرير السنوى للمؤسسة التعليمية" Faculty of Pharmacy – Cairo university, 28/12/2011.
- 5) Proposal Writing Post Docs by “DAAD” at Faculty of Pharmacy – Cairo university, 14/10/2012

- 6) Interactive lectures by “DAAD” at Faculty of Pharmacy – Cairo university, 3/2012
- 7) Stability and Bioequivalence Guidelines for the Pharmaceutical Products in the Egyptian Market" Drug Manufacturing Unit, Faculty of Pharmacy – Cairo university, 7/12/2013
- 8) Workshop entitled "Preparation of an E-course" Cairo University 5-7/4/2016.
- 9) Effective Academic Writing, EKB with Nature publications, 12,13/12/2017
- 10) Course specification and blue print writing - Faculty of Pharmacy – Cairo university, 28/2/2018
- 11) Writing effective exam questions - Faculty of Pharmacy – Cairo university, 7/3/2018
- 12) Helping students to learn, Faculty of Pharmacy – Cairo university, 14/3/2017
- 13) E-Learning Management system, Ministry of Communications and Information Technology, 24-26/9/2018
- 14) Quality assurance system in higher education institutions - Academic advising system. ECU University, 27 - 28 September 2020
- 15) Credit hour system - Objectives of interviews. ECU University, 29 - 30 September 2020.
- 16) Learning management system. ECU University, 1 October 2020.
- 17) Strategic planning for academic leaders, ECU, 3 November 2020.
- 18) Effective Academic Writing. Nature Research Academies with EKB, 10 January 2021.
- 19) Successful Pre-Submission Strategy. Nature Research Academies with EKB, 13 January 2021.
- 20) Workshop entitled مهارات الاتصال في أنماط التعليم المختلفة ECU, 30-31 January 2021.

- 21) Effective Post-Submission Publishing Strategies. Nature Research Academies with EKB, 3 February 2021.
- 22) Effective Grant Writing, Nature Research Academies with EKB, 21 March 2022.

Workshops organization and speaker

- 1) Endnote program for dealing with references workshop. Haiel University – KSA 2008. **Organizer and speaker.**
- 2) HPLC Method Development and Validation Workshop. Center of applied research and advanced studies, June 2013, 2015, 2017. **Organizer and speaker.**
- 3) Regulatory and Technical aspects for successful comparative in vitro dissolution study Workshop. Center of applied research and advanced studies, 2015, **Organizer**
- 4) Towards fast acceptance of your stability file, regulations and technicalities Workshop. Center of applied research and advanced studies, 2015, **organizer.**
- 5) Solid phase extraction as a tool for sample preparation Workshop. Center of applied research and advanced studies, 2016, **organizer.**
- 6) Analytical Biotechnology: Quality Control of Biopharmaceuticals & Biosimilarity Assessment Workshop, Center of applied research and advanced studies 2018, **organizer.**
- 7) Bioanalytical Method Development and Validation workshop, Center of applied research and advanced studies 2019, **organizer and speaker.**
- 8) Characterization of Nanoparticles, ECU, 2021, **speaker.**
- 9) Bioanalytical Method Development and Validation, ECU, 2021, **speaker.**
- 10) Cooperation in Education and Research for Analysis with Mass Spectrometry (COOPERA-MS) project between the institute of Pharmacy of Freie

Universität Berlin and the Faculty of Pharmacy Cairo University, Dec., 2021,
speaker (Using Mass Detection in Bioequivalence studies).

Conferences

- 1) 3rd International Scientific Conference of Faculty of Pharmacy, Cairo University
April 2010. Poster presentation
- 2) 32nd Conference of Pharmaceutical Sciences Egyptian Pharmaceutical Society
December, 20-22, 2011, Poster presentation
- 3) 3th International Scientific Conference of Faculty of Pharmacy, Cairo University
April 2012, Poster presentation
- 4) 4th International Scientific Conference of Faculty of Pharmacy, Cairo University
April 2013, Poster presentation
- 5) 6th Black Sea Basin Conference on Analytical Chemistry (6BBCAC) Turkey
9/2013. **(Best Second Poster Award)**
- 6) 5th International Scientific Conference of Faculty of Pharmacy, Cairo University
April 2014. Poster presentation.
- 7) 2nd International Conference on Analytical Chemistry – Analytical Chemistry for
a Better Life, Romania 9/2014. Oral presentation.
- 8) 6th International Scientific Conference of Faculty of Pharmacy, Cairo University
April 2015 Poster presentation.
- 9) 7th International Scientific Conference of Faculty of Pharmacy, Cairo University
April 2016, **(Best Poster Award)**.
- 10) International congress on Science, technology and engineering (ICONTES),
Malaysia Feb. 2016 **(Best Poster Award)**.

- 11) Arab international pharmacy conference (AIPC 2019). Cairo- 30-31March 2019.
Organization and attendance.
- 12) 11th International conference on " Instrumental methods of analysis" (IMA 2019)
Ionnina – Greece 22-25 Sep 2019. Oral presentation.
- 13) 11th International Scientific Conference of faculty of Pharmacy – Cairo
university "Authenticity for Excellence in Pharmacy", 13th – 14th May 2023 –
Cairo Egypt. Two students' posters.

Scientific Supervision and Assessments

- Supervision of (14) PhD theses, (12) were granted the degree.
- Supervision of (13) M.Sc. theses, (10) were granted the degree
- Assessment of (15) PhD and M.Sc. theses.
- Assessment of an STDF project (Analytical Biotechnology field).

Awards

- Award of Thanks and Appreciation for the outstanding contribution in improving the faculty Performance in the academic year 2011/2012. (FOPCU)
- International Publication Awards for the years 2012,2013,2015, 2016,2017 and 2018.
- Certificate of Outstanding Contribution in Reviewing from ElSevier, 2015.
- Certificate of Outstanding Contribution in Reviewing from ElSevier,

2018.

- Best international published research in Analytical chemistry, 2016
- Best Poster Award from 8th International congress on Technology, Engineering and Science (ICONTES) Kuala Lumpur, Malaysia 9-10/2-2017.
- Best Second Poster Award from 6th Black Sea Basin Conference on Analytical Chemistry (6BBCAC) Turkey 9/2013.

Reviewer for National and International Journals

I performed reviews for analytical chemistry research for the international journals such as:

- Talanta
- Talanta Open
- J.AOAC International
- Sensors and Actuators
- Spectrochimica Acta Part A: Molecular and Biomolecular spectroscopy
- Scientific Reports
- Journal of Chromatographic Science
- Bulletin of Faculty of Pharmacy, Cairo University
- Journal of advanced research
- Portugaliae Electrochimica Acta
- Analytical and Bioanalytical Electrochemistry
- Microchemical Journal

Publication list

- 1) Determination of phenytoin, phenobarbitone and methylphenobarbitone in combination. Mohamed G. El-Bardicy, Mohamed Fayez El-Tarras and **Eman S. Elzanfaly**. *Spectroscopy Letters*, 30(2), 267-287 (1998).
- 2) Simultaneous determination of domperidone maleate and cinnarizin in a binary mixture form by derivative ratio spectrophotometry and classical least squares calibration. Maissa Y. Salem, **Eman S. Elzanfaly** Mohamed G. El-Bardicy, Mohamed Fayez El-Tarras. *Journal of Pharmaceutical and Biomedical Analysis*, 30 (1), 21-33 (2002).
- 3) Simultaneous determination of domperidone maleate and cinnarizin in a binary mixture form by derivative spectrophotometry, partial least squares and principal component regression. Maissa Y. Salem, **Eman S. Elzanfaly**, Mohamed Fayez El-Tarras, Mohamed G. El-Bardicy. *Journal of Analytical and Bioanalytical Chemistry*, 30 (1), (2002) 21-33.
- 4) Determination of chlorphenoxamine hydrochloride in the presence of caffeine and 8-chlorotheophylline by ion selective electrodes. Maissa Y. Salem, Amira M. El-Kosasy, **Eman S. Elzanfaly**, Mohamed Fayez El-Tarras, Mohamed G. El-Bardicy. *Bull. Fac. Pharm. Cairo University*, 40(3), (2002)1-10.
- 5) Stability indicating methods for the determination of metoclopramide and vitamin B6 simultaneously in a mixture form. Maissa Y. Salem, **Eman S. Elzanfaly**, Mohamed Fayez El-Tarras and Mohamed G. El-Bardicy. *Bull. Fac. Pharm. Cairo University*, 41(1), (2003) 1-10.

- 6) Ratio derivative spectrophotometric methods for the determination of some oxicams in the presence of their alkaline degradation products. Elham A., **Eman S. Elzanfaly** and Nahla N. Salama. *Scientia Pharmaceutica*, 71(4), (2003) 303-320.
- 7) Development and validation of PCR, PLS and TLC densitometric methods for the determination of vitamins B₁, B₆ and B₁₂ in pharmaceutical formulations. **Eman S. Elzanfaly**, Marianne N. Morkos, Nesreen K. Ramadan. *Pakistanian Journal of Pharmaceutical Sciences*, 23 (4), (2010) 409 - 415.
- 8) Membrane electrodes for the simultaneous determination of vitamins B₁, B₆ and B₁₂ by Nesreen K. Ramadan, Marianne N. Morkos, **Eman S. Elzanfaly**. *Research & Reviews in ElectroChemistry*, 2(2), (2010) 78-87.
- 9) Simultaneous determination of retinoic acid and hydroquinone in skin ointment using spectrophotometric technique (ratio difference method)" by **Eman S. Elzanfaly**, Ahmed S. Saad, Abd-Elaziz B. Abd-Elaleem. *Saudi Pharmaceutical Journal*, 20, (2012).249–253.
- 10) Combining the isoabsorptive point in the ratio spectrum and the smart ratio difference methods for a single step determination of compounds with overlapped spectra by **Eman S. Elzanfaly**, Ahmed S. Saad, Abd-Elaziz B. Abd-Elaleem. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 95, (2012) 188–192.

- 11) A Novel Simple Method for Resolving Overlapped Spectral Data with A Wide Range of Applicability, and Its Application as a Stability Indicating Method for Determination of Tazarotene by **Eman S Elzanfaly**, Ahmed S Saad and Abd-Elaziz B Abd-Elaleem. *Pharmaceutica Analytical Acta*, 3 (3), (2012) 153.
- 12) A smart simple spectrophotometric method for simultaneous determination of binary mixtures by **Eman S. Elzanfaly**, Ahmed S.Saad, Abd Elaziz B.Abd Elaleem. *Journal of Pharmaceutical Analysis*, 2(5), (2012) 382–385.
- 13) Ion Selective Membrane Electrodes for Stability Indicating Determination of Amisulpride by G. AbdElHamid, M. R. ElGhobashy, **E. S. Elzanfaly**, S. M. Amer and S. Z. ElKhateeb. *Anal. Bioanal. Electrochem.*, 4 (6), (2012) 579 – 592.
- 14) Ion Selective Membrane Electrodes for Stability Indicating Determination of Benoxinate Hydrochloride in Pure form and in Drug Product by **Eman. S. Elzanfaly** and Marianne Nebsen. *Anal. Bioanal. Electrochem.*, 5(2), (2013) 166 - 177.
- 15) Ion Selective Phosphotungstate and β -cyclodextrin Based Membrane Electrodes for Stability-Indicating Determination of Midodrine Hydrochloride by **Eman S. Elzanfaly**, Hala E. Zaazaa and Hanan A. Merey. *Acta Chim. Slov.*, (60), (2013) 256–262.
- 16) Development and Validation of Chromatographic Methods for Simultaneous Determination of Ibuprofen and Famotidine in Presence of Related Substances

in Pharmaceutical Formulations by **Eman S. Elzanfaly**, Hala E. Zaazaa, Aya T. Soudi, and Maissa Y. Salem *Acta Chim. Slov.*, 62, (2015) 45–51.

- 17) Different signal processing techniques of ratio spectra for spectrophotometric resolution of binary mixture of bisoprolol and hydrochlorothiazide; a comparative study by **Eman S. Elzanfaly**, Said A. Hassan, Maissa Y. Salem and Badr A. El-Zeany. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 140, (2015) 334–343.
- 18) Validated green high-performance liquid chromatographic methods for the determination of coformulated pharmaceuticals: A comparison with reported conventional methods by **Eman S. Elzanfaly**, Maha A. Hegazy, Samah S. Saad, Maissa Y. Salem and Laila E. Abd El Fattah. *J. Sep. Sci.*, 38, (2015) 757–763.
- 19) Application of the ratio difference spectrophotometry to the determination of ibuprofen and famotidine in their combined dosage form; Comparison with previously published spectrophotometric methods by Hala E. Zaazaa, **Eman S. Elzanfaly**, Aya T. Soudi, Maissa Y. Salem *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 143, (2015) 251–255.
- 20) Comparative study on the selectivity of various spectrophotometric techniques for the determination of binary mixture of fenbendazole and Rafoxanide by Ahmed S. Saad, Ali K. Attia, Manal S. Alaraki, **Eman S. Elzanfaly** *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 150, (2015) 682–690.

- 21) Continuous Wavelet Transform, a powerful alternative to Derivative Spectrophotometry in analysis of binary and ternary mixtures: A comparative study by **Eman S. Elzanfaly**, Said A. Hassan, Maissa Y. Salem, Badr A. El-Zeany Eman S. Elzanfaly *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 151, (2015) 945-955
- 22) Ion Selective Membrane Electrodes for Determination of Ceftrimide in Pure form and in Pharmaceutical Formulations by **Eman S. Elzanfaly**, Yasmine F. Bassuoni, Hebat Allah M. Essam and Hala E. Zaazaa *Anal. Bioanal. Electrochem.* 7 (4), (2015) 401-414.
- 23) Development and validation of an ultra performance liquid chromatography method coupled with tandem mass spectrometry for determination of alizapride in human plasma by H. E. Zaazaa, **Eman S. Elzanfaly**, A. T. Soudi and M. Y. Salem *RSC Adv.*, 5, (2015) 76377- 76382.
- 24) Validated chiral chromatographic methods for clopidogrel bisulphate and its related substances in bulk drug and pharmaceutical dosage forms by Eman S. Elzanfaly, Hala E. Zaazaa, Aya T. Soudi, Maissa Y. Salem *Chemical Papers* 69 (12) (2015)1541–1547.
- 25) Mean centring of double divisor ratio spectra, a novel pectrophotometric method for analysis of ternary mixtures by Said A. Hassan, **Eman S. Elzanfaly**, Maissa Y. Salem, Badr A. El-Zeany *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 153 (2016) 132–142.

- 26) In-line potentiometric monitoring of dissolution behavior of verapamil hydrochloride versus traditional pharmacopeial method: A comparative study by **Eman S. Elzanfaly**, Saied A. Hassan, Maissa Y. Salem, and Badr A. El-Zeany, *Sensors and Actuators*, B 228 (2016) 587–594.
- 27) Spectrophotometric method for the determination of two coformulated drugs with highly different concentrations. Application on vildagliptin and metformin hydrochloride by Hala E. Zaazaa, **Eman S. Elzanfaly**, Aya T. Soudi, and Maissa Y. Salem, *Journal of applied spectroscopy*, 83(1), (2016) 154-157.
- 28) Stability-Indicating Method and LC–MS-MS Characterization of Forced Degradation Products of Sofosbuvir by M. Nebsen and **Eman S. Elzanfaly**, *Journal of Chromatographic Science*, 54 (9) (2016) 1631-1640.
- 29) Development and validation of HPLC and CE methods for simultaneous determination of amlodipine and atorvastatin in the presence of their acidic degradation products in tablets by Saied A. Hassan, **Eman S. Elzanfaly**, Maissa Y. Salem, and Badr A. El-Zeany, *Acta Pharm.* 66 (2016) 479–490
- 30) Intranasal haloperidol-loaded miniemulsions for brain targeting: Evaluation of locomotor suppression and in-vivo biodistribution by Doaa Ahmed El-Setouhy A.B. Ibrahim, Maha M. Amin, OmneyaM. Khowessah, **Eman S. Elzanfaly**, *European Journal of Pharmaceutical Sciences* 92 (2016) 244–254
- 31) Determination of Febuxostat in Human Plasma Using RP-LC–UV Method by Kareem M. Younes, Ehab F. El-Kady, and **Eman S. Elzanfaly**, *Journal of Chromatographic Science*, 54 (6) (2016) 1022-7.

- 32) Preparation, chromatographic evaluation and biodistribution of ^{99m}Tc -procainamide as a radiopharmaceutical for heart imaging by M. A. Motaleb, I. T. Ibrahim, R. S. Abo Rizq and **E. S. Elzanfaly**, *Radiochim. Acta* (2016)
- 33) Full spectrum and selected spectrum based multivariate calibration methods for simultaneous determination of betamethasone dipropionate, clotrimazole and benzyl alcohol: Development, validation and application on commercial dosage form by HanyW. Darwish, **Eman S. Elzanfaly**, Ahmed S. Saad, Abdelaziz El-Bayoumi Abdelaleem, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 169 (2016) 50–57.
- 34) Development and validation of stability indicating TLC densitometric and spectrophotometric methods for determination of Clobetasol propionate by YF Bassuoni, **E.S. Elzanfaly**, H.M. Essam, H.ES. Zaazaa, *Bulletin of Faculty of Pharmacy, Cairo University* 54 (2) (2016), 165-174
- 35) Stability Indicating Spectrophotometric Methods for the Determination of Oxetacaine in the Presence of Its Hydrolytic and Oxidative Degradation Products, by **E. S. Elzanfaly**, , E. A. Amer, S. A. Galal, and H. E. Zaazaa, *Der Pharma Chemica*, 8, (22) (2016) 32-37.
- 36) A Liquid Chromatography/Tandem Mass Spectrometric Method for Determination of Captopril in Human Plasma: Application to a Bioequivalence Study, by **E. S. Elzanfaly**, H. A. Mery, *Journal of Applied Pharmaceutical Science*, 7 (02) (2017), 008-015.

- 37) Pharmacokinetic Evaluation of Empagliflozin in Healthy Egyptian Volunteers Using LC-MS/MS and Comparison with Other Ethnic Populations, by B. M. Ayoub, S. Mowaka, **E. S. Elzanfaly**, N.A., M. M. Elmazar, S. A. Mousa, *Scientific Reports* 7, (2017), 2583.
- 38) Ion Selective Electrode Approach for In-line Determination of Benzydamine Hydrochloride in Different Matrices of Pharmaceutical Industry.,by Y. F. Bassuoni, **E.S. Elzanfaly**, H. M. Essam and H. E. Zaazaa, *Anal. Bioanal. Electrochem* (9) 1, (2017), 65-79.
- 39) Spectrophotometric determination of meclizine hydrochloride and pyridoxine hydrochloride in laboratory prepared mixtures and in their pharmaceutical preparation by M. M. Ibrahim, **E. S. Elzanfaly**, M. B. El-Zeiny, N. K. Ramadan, K. M. Kelani, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 178 (2017) 234–238.
- 40) Zero and second - derivative synchronous fluorescence spectroscopy for the quantification of two non - classical β - lactams in pharmaceutical vials: Application to stability studies by **Eman S. Elzanfaly**, Rania M. Youssif,| Nahla N. Salama, Ahmed S. Fayed, Hassan A.M. Hendawy, Maissa Y. Salem, *Luminescence* (2017) 1-11.
- 41) Simultaneous quantification of ramipril, glimepiride and metformin in human plasma by ultra-performance liquid chromatography – tandem mass spectrometry by **Eman S. Elzanfaly**, Sherif A. Abdel-Gawad, *Journal of Applied Pharmaceutical Science* 7 (07), (2017) 62-69.

- 42) Green in-Line Ion Selective Electrode Potentiometric Method for Determination of Amantadine in Dissolution Media and in Pharmaceutical Formulations by **Eman S. Elzanfaly** and Ahmed S. Saad, *ACS Sustainable Chem. Eng.* 5, (2017), 4381–4387.
- 43) Ion Selective Membrane Electrodes for the Determination of Mixture of Analgin and Camylofin Dihydrochloride in their Pure Form and Combined Dosage Form by Mohamed K. Abd El-Rahman, **Eman S. Elzanfaly**, Maha M. Ibrahim, Khadiga M.Kelani, and Nesrin K. Ramadan, *Analytical & Bioanalytical Electrochemistry* 9 (1), (2017) 1-14.
- 44) Screening the fluid bed granulation process variables and moisture content determination of pharmaceutical granules by NIR spectroscopy. By Ahmed Shawky Abuzeid, Maissa Y. Salem, **Eman S. Elzanfaly**, Ahmed E. El Gindy, Stephen W. Hoag, Ahmed Ibrahim. *European journal of chemistry*, 8 (3) 2017, 265-272.
- 45) Green Insight of High Performance UTGE Operation in Nano-Sensitive Electro-Analysis of Meropenem by Adsorptive Stripping Voltammetry by Ahmed S. Fayed, Rania M. Youssif, Hassan A. M. Hendawy, Nahla N. Salama, and **Eman S. Elzanfaly**. *Journal of The Electrochemical Society*, (2018).165 (14) B730-B736.
- 46) Spectrofluorimetric determination of eptifibatide in human plasma and dosage form by **Eman Saad Elzanfaly**, Enas Abdel Hakim Amer, Sara Abdel Basset Galal and Hala Elsayed Zaazaa. *Luminescence* 34, (2019), 64-69.

- 47) Analytical Eco-Scale for Assessing the Greenness of a Developed Potentiometric Method for Lomefloxacin Hydrochloride Determination in its Different Dosage Forms, Plasma, and Dissolution Medium by Shereen A. Boltia, Aya T. Soudi, **Eman S. Elzanfaly**, and Hala E. Zaazaa. *Journal of AOAC International*.102 (3), (2019), 794-800
- 48) Validated High Performance Liquid Chromatographic Method for Stability Study of Eptifibatide by **Eman Saad Elzanfaly**, Enas Abd Elhakim Amer, Sara Abd Elbasset Galal, and Hala Elsayed Zaazaa. *Journal of Chromatographic Science*, 57 (6), (2019), 1–11
- 49) Development and Greenness Evaluation of a Potentiometric Method for Lomefloxacin Hydrochloride Determination in Urine and Establishment of Cumulative Excretion Pattern Shereen A. Boltia, Aya T. Soudi, Eman S. Elzanfaly, and Hala E. Zaazaa. *Journal of The Electrochemical Society*, 166 (2), (2019), B141-B146
- 50) A new plan for determining drug pharmacokinetics by establishment of urinary excretion pattern. Spectrofluorimetric application on Lomeflox® tablets by Shereen A. Boltia, Aya T. Soudi, **Eman S. Elzanfaly**, Hala E. Zaazaa. *Microchemical Journal* ,148, (2019), 419–423
- 51) Comparing the predictability of different chemometric models over UV-spectral data of isoxsuprine and its toxic photothermal degradation products by Ahmed S. Saad, **Eman S. Elzanfaly**, Michael K. Halim, Khadiga M. Kelani.

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy ,219 (2019), 444–449

- 52) Ecofriendly Determinations of Pseudoephedrine HCl and Triprolidine HCl in Their Tablet Form: Evaluation of Dissolution Profile by Yasmine F. Bassuoni, Hebatallah M. Essam, **Eman S. Elzanfaly**, Hala E. Zaazaa, and Khadiga O. Kelani, *Chemistry Select*, 4, (2019), 8946 –8952.
- 53) Simultaneous determination of paracetamol, orphenadrine citrate and caffeine ternary mixture by different spectrophotometric methods by S. A. Boltia, A. T. Soudi, **Eman Saad Elzanfaly**, H. E. Zaazaa. *Journal of Applied Spectroscopy* 86 (4), (2019), 1-9.
- 54) A Validated Ultra-Performance Liquid Chromatographic Method for the Simultaneous Determination of Nadifloxacin, Mometasone Furoate and Miconazole Nitrate in Their Combined Dosage Form and Spiked Human Plasma Samples by Mohamed Tarek, Hebatallah A. Wagdy, **Eman S. Elzanfaly** and Sawsan M. Amer. *Journal of Chromatographic Science*, Vol. 57 (10), (2019), 867-873.
- 55) Simultaneous Quantification of Chlorpheniramine, Phenylephrine, Guaifenesin in Presence of Preservatives with Detection of Related Substance Guaiacol in their Cough Syrup by RP-HPLC and TLC-Densitometric Methods by Shereen A. Boltia, Aya T. Soudi, **Eman S. Elzanfaly**, and Hala E. Zaazaa. *Journal of Chromatographic Science*, 57 (6), (2019), 552–559

- 56) Two-wavelength manipulation stability-indicating spectrophotometric methods for determination of meropenem and ertapenem: greenness consolidation and pharmaceutical product application by Fayed, A.S., Youssif, R.M., Salama, N.N., Hendawy, H.A., **Elzanfaly, E.S.**, *Chemical Papers* 73 (11), (2019), 2723–2736.
- 57) Stability Indicating TLC–Densitometric Method for Determination of Alcaftadine in Presence of its Degradation Products and Dosage form Preservatives by AT Soudi, OG Hussein, **ES Elzanfaly**, HE Zaazaa, M Abdelkawy, *Research Journal of Pharmacy and Technology* 13 (11) (2020), 5171-5176. DOI: 10.5958/0974-360X.2020.00904.X
- 58) Stepwise optimization and sensitivity improvement of green micellar electrokinetic chromatography method to simultaneously determine some fluoroquinolones and glucocorticoids present in various binary ophthalmic formulations by HM Essam, MN Saad, **ES Elzanfaly**, SM Amer, *Biomedical Chromatography*, 34 (11) (2020), e4941. <https://doi.org/10.1002/bmc.4941>
- 59) Economic chromatographic methods for simultaneous quantitation of some fluoroquinolones and corticosteroids present in different binary ophthalmic formulations by M.N Saad, H.M. Essam, **Eman S. Elzanfaly**, S.M. Amer, *Journal of Liquid Chromatography and Related Technologies* 43 (7-8), (2020), 271-281.
- 60) Selective analysis of Nadifloxacin in human plasma samples using a molecularly imprinted polymer-based solid-phase extraction proceeded by UPLC-DAD

analysis by M Tarek, ES Elzanfaly, SM Amer, HA Wagdy, *Microchemical Journal* 158 (2020), 105162. <https://doi.org/10.1016/j.microc.2020.105162>

- 61) Effect of Genetic Algorithm–Based Wavelength Selection as a Preprocessing Tool on Multivariate Simultaneous Determination of Paracetamol, Orphenadrine Citrate, and Caffeine in the Presence of p-Aminophenol Impurity by Shereen A. Boltia, A. T. Soudi, **Eman S. Elzanfaly**, and Hala E. Zaazaa, *Journal of AOAC International*, 103 (1), (2020), 250-256.
- 62) Radiosynthesis, chromatographic evaluation and biodistribution of [125I] iododobutamine as a radiotracer for myocardial perfusion imaging by Faisal A. Almalki, M. A. Motaleb, I. T. Ibrahim, R. S. Abo Rizq, **Eman S. Elzanfaly**, *Journal of Radioanalytical and Nuclear Chemistry* 324, (2020), 459–466.
- 63) A Two-Step Optimization Approach: Validated RP-HPLC Method for Determination of Gatifloxacin and Dexamethasone in Ophthalmic Formulation by Martin N. Saad, Hebatallah M. Essam, **Eman S. Elzanfaly**, and Sawsan M. Amer, *Journal of Chromatographic Science*, 58, (6), (2020), 504–510.
- 64) Development and Validation of Chromatographic Methods for Simultaneous Determination of Paracetamol, Orphenadrine Citrate and Caffeine in Presence of P-aminophenol; Quantification of P-aminophenol Nephrotoxic Impurity Using LC–MS/MS by Shereen A. Boltia, Aya T. Soudi,¹, **Eman S. Elzanfaly** and Hala E. Zaazaa, *Journal of Chromatographic Science*, 58, (3), (2020), 223–233.

- 65) Simultaneous determination of phenazopyridine HCl and trimethoprim in presence of phenazopyridine HCl impurity by univariate and multivariate spectrophotometric methods - Quantification of phenazopyridine HCl impurity by univariate methods by Aya T. Soudi , Ola G. Hussein, **Eman S. Elzanfaly**, Hala E. Zaazaa, Mohamed Abdelkawy, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 239, (2020),118516. <https://doi.org/10.1016/j.saa.2020.118516>
- 66) Potentiometric Sensing Platform for Selective Determination and Monitoring of Codeine Phosphate in Presence of Ibuprofen in Pharmaceutical and Biological Matrices by Yasmine F. Bassuonia, Hebatallah M.Essam, **Eman S. Elzanfaly**, Hala E. Zaazaa, Khadiga M. Kelani, *Microchemical Journal*, HM Essam, YF Bassuoni, ES Elzanfaly, HES Zaazaa, KM Kelani, *Microchemical Journal* 159 (2020), 105286. <https://doi.org/10.1016/j.microc.2020.105286>
- 67) Green Potentiometric Method for Determination of Triprolidine Hydrochloride and Pseudoephedrine Hydrochloride in their Different Pharmaceutical Matrices using Liquid and Solid Contact Gold Electrodes by Yasmine F. Bassuoni, Hebatallah M. Essam, Eman S. Elzanfaly, Hala E. Zaazaa, and Khadiga M. Kelani, *Analytical Bioanalytical Electrochemistry*, 12, (6), (2020), 793-809.
- 68) Potentiometric Method to Determine Montelukast Sodium in its Tablets with In-line Monitoring of its Dissolution Behaviour by Aya T. Soudi, Ola G. Hussein, **Eman S. Elzanfaly**, Hala E. Zaazaa, Mohamed Abdelkawy,12, (4) (2020), 502-516.

- 69) Utility of Silver-nanoparticles for Nano Spectrofluorimetric Determination of Meropenem and Ertapenem: Bio-analytical Validation by AS Fayed, RM Youssif, NN Salama, **ES Elzanfaly**, HAM Hendawy, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 262, (2021) 120077.
- 70) Different greenness assessment perspectives for stability-indicating RP-HPLC method used for the assay of isoxsuprine hydrochloride and four nephrotoxic and hepatotoxic photothermal degradation products by KM Kelani, **ES Elzanfaly**, AS Saad, MK Halim, MB El-Zeiny, *Microchemical Journal* 171(2021), 106826. <https://doi.org/10.1016/j.microc.2021.106826>
- 71) Simultaneous Determination of Amlodipine and Olmesartan Using HPLC with Fluorescence Detection by SA Hassan, N Ibrahim, ES Elzanfaly, AE El Gendy, *Pharmaceutical Chemistry Journal* 55 (2) (2021), 206-212.
- 72) Analytical quality by design approach for the control of potentially counterfeit chloroquine with some NSAIDS using HPLC with fluorescence detection in pharmaceutical preparation and breast milk by SA Hassan, N Ibrahim, ES Elzanfaly, AE El Gendy, *Acta Chromatographica* 33 (3) (2021), 234-244. DOI: <https://doi.org/10.1556/1326.2020.00793>
- 73) Optimization and validation of Eco-friendly RP-HPLC and univariate spectrophotometric methods for the simultaneous determination of Fluorometholone and Tetrahydrozoline hydrochloride by HM Essam, MN Saad, ES Elzanfaly, SM Amer, *Acta Chromatographica* , 33 (3) (2021), 216-227. DOI: <https://doi.org/10.1556/1326.2020.00783>

- 74) Spectrofluorimetric method for the determination of Moxifloxacin using an Experimental design approach by N Ibrahim, **ES Elzanfaly**, AE El Gendy, SA Hassan, *Research Journal of Pharmacy and Technology*, 14 (4) (2021), 1880-1886. DOI: 10.52711/0974-360X.2021.00332
- 75) Ultra-sensitive stripping SWV for determination of ertapenem via ZnONPs/MWCNT/CP sensor: Greenness assessment by AS Fayed, RM Youssif, NN Salama, **ES Elzanfaly**, HAM Hendawy, *Microchemical Journal* 162, (2021) 105752. <https://doi.org/10.1016/j.microc.2020.105752>
- 76) Introducing a Polymeric Ion Exchanger as a Modifier for Carbon-Paste Potentiometric Sensors by AS Saad, NS Ismail, NS Gaber, **ES Elzanfaly** *Journal of the Electrochemical Society* 168 (1) (2021), 017504. <https://doi.org/10.1149/1945-7111/abd918>
- 77) A portable solid-state potentiometric sensor based on a polymeric ion-exchanger for the assay of a controversial food colorant (sunset yellow) by MO Heragy, AAM Moustafa, **ES Elzanfaly**, AS Saad, *Analytical Methods* 13 (41) (2021), 4896-4903. DOI: 10.1039/D1AY01212F
- 78) Miniaturized chromatographic systems for radiochemical purity evaluation of ¹³¹I-Ferulic acid as a new candidate in nuclear medicine applications by GA Sedik, RSA Rizq, IT Ibrahim, **ES Elzanfaly**, MA Motaleb, *Applied Radiation and Isotopes*, 167 (2021), 109370. <https://doi.org/10.1016/j.apradiso.2020.109370>

- 79) Potentiometric sensing platform for selective determination and monitoring of codeine phosphate in presence of ibuprofen in pharmaceutical and biological matrices by HM Essam, YF Bassuoni, **ES Elzanfaly**, HES Zaazaa, KM Kelani, *Microchemical Journal* 159 (2021), 105286. <https://doi.org/10.1016/j.microc.2020.105286>
- 80) Analytical Eco-Scale for Evaluating the Greenness of Advanced Voltammetric Method Used for the Simultaneous Analysis of Combined Urinary Tract Infection Drugs in Different Matrices by OG Hussein, ES Elzanfaly, HE Zaazaa, M Abdelkawy, SA Atty, *Journal of The Electrochemical Society* 169 (4) (2022), 043507. <https://doi.org/10.1149/1945-7111/ac638f>
- 81) Newly Developed Nano Sensitive Carbon Paste Electrode Modified with Silver Sulphadiazine and Zinc Oxide for Voltammetric Determination of Loperamide Hydrochloride in in Pharmaceutical Formulation and in Human Plasma by MM Ibrahim, KM Kelani, NK Ramadan, **ES Elzanfaly**, S Abdel-Atty, *Journal of The Electrochemical Society* , 169 (5) (2022), 056507. <https://doi.org/10.1149/1945-7111/ac6a82>
- 82) Miniaturized solid-state sensor for inline monitoring of the microbial biodegradation of a biohazardous textile azo dye (Direct Red-81) by MO Heragy, AAM Moustafa, **ES Elzanfaly**, WA Al-Shareef and AS Saad, *Talanta Open* 6 (2022), 100146. <https://doi.org/10.1016/j.talo.2022.100146>
- 83) Solid Contact Potentiometric Sensor for The Assay of Loperamide Hydrochloride in Its Pharmaceutical Formulation and Spiked Plasma Samples by

M.M. Ibrahim, K.M. Kelani, N.K. Ramadan, **E. S. Elzanfaly**, A.S. Saad, *Analytical and Bioanalytical Electrochemistry*, 14 (2022), 904-920.

84) Smartphone as a Portable Detector for Thin-Layer Chromatographic Determination of Some Gastrointestinal Tract Drugs by MM Ibrahim, KM Kelani, NK Ramadan, **ES Elzanfaly**, *ACS omega*, 7 (27) (2022), 23815-23820.

<https://doi.org/10.1021/acsomega.2c02482>

85) A chemically modified solid-state sensor for magnesium (ii) ions and esomeprazole magnesium potentiometric assay by Ahmed S Saad, Nahla S Ismail, Noran S Gaber, **Eman S Elzanfaly**, *RSC Advances*, 13 (3) 1995-2003.

<https://doi.org/10.1039/D2RA06839G>

86) Erdosteine-based potentiometric sensor for real-time surveillance of copper traces in food supplements and shredded canned tuna by Ahmed S Saad, Nahla S Ismail, Noran S Gaber, **Eman S Elzanfaly**, *Journal of Food Composition and Analysis*, 115, 105026. <https://doi.org/10.1016/j.jfca.2022.105026>

Other Activities

- Head of the committee for Technical and financial decision for Instruments exported to Egyptian Drug Authority 2021.
- A member of the strategic planning, leadership and management committee in FOPCU (1-11-2013 till 31-7-2014 and from 1-10-2015 till 31-7-2016).
- A member of External international relations office in FOPCU (6-10-2012).
- Secretary of the analytical chemistry dept council in FOPCU (2010-2012).
- Academic coordinator of the first year students in FOPCU (2011-2012).

-
- A member of Occupational Safety and Health Committee in FOPCU (2010-2011).