Nora Hamad Al-Shaalan

Professor of Analytical chemistry / Chemistry department/ College of Science/ Princess Nourah bint Abdulrahman University

TVTC Certified coach



Princess Nourah bint Abdulrahman

@ nhalshaalan@pnu.edu.sa or nnnhhh50@gmail.com

Academic Degrees:

1- B. Sc., Science and Education

Princess Nourah bint Abdulrahman University, 1412.

2- M.Sc., Analytical Chemistry:

Princess Nourah bint Abdulrahman University, 1415- 1995.

Title of Master's Thesis: New Analytical Spectrophotometric Applications of Organic Reagents in measurement of Elements.

3- Ph. D: Analytical Chemistry:

Princess Nourah bint Abdulrahman University, 1419-1998.

Title of Ph.D. Dissertation: New Analytical Spectrophotometric Applications of Triphenylmethane Reagents in Determination of Cations.

- 4- Associate professor 2008
- 5- Professor 2012

Areas of interest

- Environmental analysis (water, soil & air analysis)
- Rare and heavy metal estimation in environment and food
- extract waste from water by safe methods

- Water purification tests and experiments
- Drug analysis
- Determination of dyes and heavy metals in biological fluids

Experiences:

- Head of Chemistry department: 1426-1428.
- Vice Dean of Scientific Research: 1431-1433.
- Dean of Scientific Research: 1433-1435.
- Member in Saudi Chemical Society.
- Member in Royal Society of Chemistry, UK (RSC).
- Member of Disabled Children Association in Riyadh 2011-2012.
- Supervisor and examiner for many theses.
- Member of the editorial board of several journals.
- Member of the Research Excellence Award Committee 1440
- Vice Rector's Assistant of Graduate Studies and Scientific Research/ Princess Nourah bint Abdulrahman University 2020-2022
- Member of the Standing Committee for Scientific Publication 1442
- Member of the Standing Committee of Scientific Journals 1442
- Director of Research Centre/ College of Pharmacy 2015- 2019
- Secretary of the Scientific Council/ Princess Nourah bint Abdulrahman University 2021-2023
- Reviewer for many promotions in most Saudi universities.

Conferences:

- 1- Taibah International Chemistry Conference -2009(23-25) March 2009. Chemistry Department, Faculty of science, Taibah University (attendant).
- 2- Fourth Saudi Science Conference Contribution of Science Faculties In the Development process of KSA, March 21-24/3/2010, Chemistry Department, Faculty of science, Taibah University. (Presented a scientific paper).

- 3- The 2nd lab technology conference & Exhibition 2011 in Kuwait. 1-2 February 2011(attendant).
- 4- Second International conference e-Learning and Distance learning-Riyadh 21-24 feb. 2011.(attendant).
- 5- 1st saudi scientific publishing conference in 28-30/1/2014.
- 6- The Second International Conference for Assessment & evaluation, Riyadh, 1 Dec. 2015. (attendant)
- 7- The First Conference on Saudi Women's Studies, Princess Nourah bint Abdulrahman University 2018.
- 8- Saudi Universities Conference for Awqaf, Riyadh, 21-22 Jun, 2022. (attendant).

Forums:

- 1- First forum officials of quality in Saudi universities, Imam university, Riyadh, Saudi Arabia 1429 (attendant).
- 2- Forum of Social Partnership in scientific research, Imam university, Riyadh, Saudi Arabia 1430-2009 (attendant).
- 3- Montreal International Biochemistry & Biophysics Forum November 3-4, 2011, in Montreal, Quebec, Canada. (presented a scientific paper).
- 4- First Arab Forum "The role of Arab women in management development", Muscat, October 16-18 / 2011. (attendant).

Symposia:

- 1- Symposium on Scientific process for Saudi women in science faculties, College Of Science- Princess Nora Bint Abdul Rahman University, Riyadh, Saudi Arabia, 14-16/5/2011, (presented a scientific paper).
- 2- Women's Higher Education: Growth to Competition, King Saud University, Riyadh, Saudi Arabia, 14-15/1/2013. (attendant).
- 3- Patent Cooperation Treaty (PCT) Seminar, KACST, Riyadh, Saudi Arabia, May 13-14, 2014.

4- 27th International Symposium on Polymer Analysis and Characterization, Les Diablerets, Switzerland, June 16-18, 2014.

Honor

- Honor Certificate for Research Excellence in Scientific Publishing in Web of Science 2015
- -Honor Certificate for Research Excellence in Scientific Publishing in Web of Science 2016
- -Excellence certificate in publishing among the top 10% of A-class Journals for the years 2021&2022.

Publications:

- 1- **N. H. Al-Shaalan**, A.R. A. Al-Warthan, G. A. Salem, and M.Al-nowaiser, Chromatographic study of carbohydrate content in some date types in KSA, j. Saudi chem. Soc., Saudi Arabia, 2006, Vol. 10(1), 31-40.
- 2 -Noura Al-Shaalan, Spectral and thermal studies of solid-phase thermochromism of Co(II) double metal complexes, Spectrochimica Acta Part A, USA, 2007, 68 204–210.
- 3 -Noura H. AL-Sha'alan, Mostafa El-Behery and Gaozaa El-Nawmosy Thermodynamics of a new schiff base hydrazone containing quinoline moiety with some metal ions, Journal of The Faculty of Education, Egypt, 2006, 31, 177-205.
- 4- **Nora H. Al-Shaalan**, Determination of diloxanide furoate and metronidazole in binary mixture using first derivative of the ratio-spectra and high-performance liquid chromatography-uv methods, American Journal of Applied Sciences, USA, 2007, 4(2), 66-72.
- 5- **Nora H. Al-Shaalan**, Utility of certain π acceptors for spectrophotometric determination of sildenafil citrate, American Journal of Applied Sciences, USA, 2007, 4 (10): 743-747.
- 6- **Nora H. Al-Sha'alan**, Antimicrobial Activity and Spectral, Magnetic and Thermal Studies of Some Transition Metal Complexes of a Schiff Base Hydrazone Containing a Quinoline Moiety, Molecules, Switzerland, 2007, 12, 1080-1091.
- 7- A.I. Ibrahim, **Noura H. Al-Shaalan**, Mostafa El-Behery and K. S. Abo-Melha, Synthesis, Magnetic, Spectral and Thermal Studies of some Transition Metal Complexes of 4-Methyl-6-(o-Hydroxyphenylpyrimidine) Hydrazone, Journal of The Faculty of Education, Egypt, 2006, 31, 207-227.

- 8- **Nora H. Al-Shaalan**, Determination of phenylephrine hydrochloride and chlorpheniramine maleate in binary mixture using chemometric-assisted spectrophotometric and high-performance liquid chromatographic-UV methods, Journal Of Saudi Chemical Society., Saudi Arabia, 2010, 14, 15-21.
- 9- **Nora H. Al-Shaalan**, Irreversible solid-phase thermochromism of transition metal azo complexes, Fourth Saudi Science Conference, March 21-24th, 2010.
- 10- **Nora H. Al-Shaalan**, Atomic absorption spectrometric determination of Fusidic Acid in bulk powder and in pharmaceutical dosage form, journal of Chemical and Pharmaceutical Research, 2010, 2(6):135-143.
- 11- **Nora H. Al-Shaalan**, Maha A. Alnowaiser, Simultaneous determination of amlodipine besilate and valsartan in pharmaceutical formulation using high performance liquid chromatography, journal of Chemical and Pharmaceutical Research, 2010, 2(6):129-134.
- 12- **Nora H. Al-Shaalan**, Synthesis, characterization and biological activities of Cu(II), Co(II), Mn(II), Fe(II), and UO2(VI) complexes with a new schiff base hydrazone: o-hydroxyacetophenone-7-chloro-4-quinoline hydrazone, Molecules , 2011, 16(10), 8629-8645.
- 13- **Nora H. Al-Shaalan**, Simultaneous determination of chlorphineramine maleate, dextromethorphan HBr and phenylephrin HCl in codilar syrup using high performance liquid chromatography, Journal of pharmaceutical and scientific innovation, 2012, 1(1), 29-32.
- Nora H. Al-Shaalan, Utilization of charge transfer and kinetic methods for the determination of doripenem, American Journal of Applied Sciences, 9 (4): 510-518, 2012.
- 15- **Nora H. Al-Shaalan**, Extractive spectrophotometric assay of cyclizine in a pharmaceutical formulation and biological fluids, Saudi Pharmaceutical Journal, 2012. 20(3), 255-262.
- Nora H. Al-Shaalan, Electroanalytical Determination of Doripenem using a Screen-Printed Electrode, American Journal of Pharmacology and Toxicology, USA, 7 (1): 1-7, 2012.
- 17- A. Y. Badjah Hadj Ahmed, Munir S. Obbed, Saikh M. Wabaidur, Zeid A. AlOthman, and **Nora H. Al-Shaalan**, High-Performance Liquid Chromatography Analysis of Phenolic Acid, Flavonoid, and Phenol Contents in Various Natural Yemeni Honeys Using Multi-walled Carbon Nanotubes as a Solid-Phase Extraction Adsorbent, Journal of Agricultural and Food Chemistry, 2014, 62 (24), pp 5443–5450.
- 18- Mohammad Rizwan Khan, Moonis Ali Khan, Zeid A. AlOthman, Ibrahim Hotan Alsohaimi, Mu Naushad, **Nora H. Al-Shaalan**, Quantitative determination of methylene blue in environmental samples by solid-phase extraction and ultraperformance liquid chromatography-tandem mass spectrometry: a green approach, RSC Advances, 2014, 4(64), 34037-34044.

- 19- AA Ghfar, SM Wabaidur, AYacine BH Ahmed, Zeid A. AlOthman, **Nora H. Al-Shaalan**, Simultaneous determination of monosaccharides and oligosaccharides in dates using liquid chromatography–electrospray ionization mass spectrometry, Food Chemistry, 2015, 176, 487-492.
- 20- Zeid A. AlOthman, **Nora H. Al-Shaalan**, Mohamed A. Habila, Yunus E. Unsal, Mustafa Tuzen, Mustafa Soylak, Dispersive liquid—liquid microextraction of lead(II) as 5-(4-dimethylaminobenzylidene) rhodanine chelates from food and water samples, Environmental Monitoring and Assessment, 2015, 187, 9.
- 21- **Nora H. Al-Shaalan**, Smart Spectrophotometric Methods for the Simultaneous Determination of Vitamin B1 and B2 Concentrations in Complex Mixtures, Oriental journal of chemistry, 2015, 31(4), 2231-5039.
- 22- Zeid Abdullah ALOthman , Mohamed Abdelaty Habila, **Nora H. Al-Shaalan**, Sulaiman M. Alfadul, Rahmat Ali, Ibrahim Gar Al alm Rashed, Bader Alfarhan Adsorptive removal of Cu(II) and Pb(II) onto mixed-waste activated carbon: kinetic, thermodynamic, and competitive studies and application to real wastewater samples, Arabian Journal of Geosciences, 2016, 9,315.
- Thanaa A. El-Masry , **Nora H. Al-Shaalan** , Ehab Tousson, Kadreya El-Morshedy and Areej Al-Ghadeer, P53 Expression in Response to Equigan Induced Testicular Injury and Oxidative Stress in Male Rat and the Possible Prophylactic Effect of Star Anise Extracts, Annual Research and Review in Biology, 14(1): 1-8, 2017.
- Thanaa A. El-Masry, **Nora H. Al-Shaalan**, Ehab Tousson, Kadreya El-Morshedy and Areej Al-Ghadeer, Star anise extracts modulation of reproductive parameters, fertility potential and DNA fragmentation induced by growth promoter Equigan in rat testes, Brazilian Journal of Pharmaceutical Sciences, 54(1), 2018.
- 25- Iman O. Sherif and **Nora H. Al-Shaalan**, Vildagliptin Attenuates Hepatic Ischemia/Reperfusion Injury via the TLR4/NF-kappa B Signaling Pathway, Oxidative Medicine and Cellular Longevity, 2018.
- Lamya H. Al-Wahaibi, Gopalan Akilandeswari, Ravisankar Anusha, **Nora H. Al-Shaalan**, Omkulthom M. Alkmali, Ali A. El-Emam, Judith M. Percino, SubbiahThamotharan; Insights into the nature of weak noncovalent interactions in 3-(4-fluoropheny1)-6-(2-fluoropheny1)-1,2,4-triazolo[3,4-b][1,3,4] thiadiazole, a potential bioactive agent: X-ray, QTAIM and molecular docking analysis, Journal of Molecular Structure, 1183, 331-341, 2019.
- Nora Hamad Al-Shaalan, Imran Ali, Zeid A. ALOthman ,Lamya Hamad Al-Wahaibi, Hadeel Alabdulmonem; High performance removal and simulation studies of diuron pesticide in water on MWCNTs, Journal of Molecular Liquids, 2019, 11039, 289.
- 28- Lamya H.Al-Wahaibi, Yusuf Sert, Fatih Ucunc , **Nora H. Al-Shaalan**, Aisha Alsfoukd, Ali A.El-Emam, Mustafa Karakaya. Theoretical and experimental spectroscopic studies, XPS analysis, dimer interaction energies and molecular

- docking study of 5-(adamantan-1-yl)-N-methyl-1,3,4-thiadiazol-2-amine, Journal of Physics and Chemistry of Solids, 2019, 135.
- 29- Lamya H. Al-Wahaibi, **Nora H. Al-Shaalan**, Hazem A. Ghabbour, Edward R.T. Tiekink and Ali A. El-Emam, Crystal structure of 3,5-bis(trifluoromethyl)benzyl (Z)-N'-(adamantan-1-yl)-4-phenylpiperazine-1- carbothioimidate, C30H33F6N3S, Zeitschrift fur Kristallographie New Crystal Structures, Open Access. 2019.
- 30- **Nora Hamad Al-Shaalan**, Imran Ali, Zeid A. ALOthman, Lamya Hamad Al-Wahaibi Hadeel Alabdulmonem; Application of Composite NanoMaterial to Determine Phenols in Wastewater by Solid Phase Micro Membrane Tip Extraction and Capillary Electrophoresis, Molecules, 2019, Open Access .
- 31- Iman O. Sherif, **Nora H. Al-Shaalan** and Dina Sabry, Ginkgo Biloba Extract Alleviates Methotrexate-Induced Renal Injury: New Impact on PI3K/Akt/mTOR Signaling and MALAT1 Expression, Biomolecules 2019, 9, 691.
- 32- **Nora Hamad Al-Shaalan**, Imran Ali, Zeid A. ALOthman, Lamya Hamad Al-Wahaibi, Hadeel Alabdulmonem; Enantioselective degradation of dufulin pesticide in water: Uptake, thermodynamics, and kinetics studies, Chirality, 2019, Open Access.
- Thanaa A. El-Masry, **Nora H. Al-Shaalan**, Ehab Tousson, Manal Buabeid and Anhar M. Alyousef; The therapeutic and antineoplastic effects of vitamin B17 against the growth of solid-form Ehrlich tumours and the associated changes in oxidative stress, DNA damage, apoptosis and proliferation in mice, 2019, Pakistan journal of pharmaceutical sciences 32(6):2801-2810
- 34- Lamya H. Al-Wahaibi, Jacques Joubert, Olivier Blacque, **Nora H. Al-Shaalan**& Ali A. El-Emam; Crystal structure, Hirshfeld surface analysis and DFT studies of 5-(adamantan-1-yl)-3-[(4- chlorobenzyl)sulfanyl]-4-methyl- 4H-1,2,4-triazole, a potential 11β- HSD1 inhibitor, SCIENTIFIC REPORTS , 2019, 9:19745.
- 35- **Nora Hamad Al-Shaalan**, Imran Ali, Zeid Abdullah Al Othman, Lamya Hamad Al-Wahaibi and Hadeel Alabdulmonem, Stereomeric resolution and modeling of DL-alanine-DL-phenyl alanine dipeptide on amycoat-RP column, Analytical Methods, 2020, 2(12), 162-168.
- 36- Thanaa El-Masry, **Nora Al-Shaalan**, Ehab Tousson, Manal Buabeid, and Areej Al-Ghadeer, Potential therapy of vitamin B17 against Ehrlich solid tumor induced changes in Interferon gamma, Nuclear factor kappa B, DNA fragmentation, p53, Bcl2, survivin, VEGF and TNF- α Expressions in mice, , 2020, Pakistan journal of pharmaceutical sciences 33(1):393-401.
- 37- Md. Jamil Hossainm, **Nora Hamad Al-Shaalan**, Md. Ruhul Amin, Shahina Aktar, Shahed Rana, Saikh Mohammad Wabaidur, Malik Abdul Rub, Md. Anamul Hoque, Shariff E. Kabir, Abdullah M. Asiri, Physicochemical Observation of the Impact of Various Additives on the Clouding Nature of Triton X-100 Solution, JOURNAL OF CHEMICAL AND ENGINEERING DATA, 2020, 65, 2, 841-847.

- 38- Iman O. Sherif, Alaa A. Alshaalan & **Nora H. Al-Shaalan**; Renoprotective effect of vildagliptin following hepatic ischemia/reperfusion injury, Renal Failure, 2020, 42(1), 208–215.
- 39- Ali A. El-Emam, Elangovan Saveeth Kumar, Krishnakumar Janani, Lamya H. Al-Wahaibi, Olivier Blacque, Mohamed I. El-Awady, **Nora H. Al-Shaalan**, M. Judith Percino and Subbiah Thamotharan; Quantitative assessment of the nature of noncovalent interactions in N-substituted-5-(adamantan-1-yl)-1,3,4-thiadiazole-2-amines: insights from crystallographic and QTAIM analysis, RSC Advances, 2020, 10, 9840.
- 40- Sk.Md. AliAhsan, **Nora Hamad Al-Shaalan**, Md. Ruhul Amin, Mohammad Robel Molla, Shahina Aktar, Md. Masud Alam, Malik Abdul Rub, Saikh Mohammad Wabaidur, Md. Anamul Hoque, Mohammed AbdullahKhan, Interaction of moxifloxacin hydrochloride with sodium dodecyl sulfate and tween 80: Conductivity & phase separation methods, Journal of Molecular Liquids, 2020, 301, 112467.
- 41- Jenny Jeehan M. Nasr, **Nora Hamad Al-Shaalan**, Shereen M. Shalan, Sustainable environment-friendly quantitative determination of three antihyperlipidemic statin drugs and ezetimibe in binary mixtures by first derivative Fourier transform infrared (FTIR) spectroscopy, 2020, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 237, 118332.
- 42- **Nora Hamad Al-Shaalan**, Imran Ali, Zeid A. ALOthman, Lamya Hamad Al-Wahaibi & Hadeel Alabdulmonem, Capillary electrophoresis and CNTs solid-phase extraction of p-nitro-phenol in water with modeling study, Journal Separation Science and Technology, 2020,
- 43- Lamya H. Al-Wahaibi, Kushumita Chakraborty, **Nora H. Al-Shaalan**, Mohamed Yehya Annavi Syed Majeed, Olivier Blacque, Aamal A. Al-Mutairi, Ali A. El-Emam, M. Judith Percino and Subbiah Thamotharan, Quantitative analysis of hydrogen and chalcogen bonds in two pyrimidine-5-carbonitrile derivatives, potential DHFR inhibitors: an integrated crystallographic and theoretical study, RSC ADVANCES, 2020, 10.36806-3681, (60)
- Iman O. Sherif & **Nora H. Al-Shaalan**, Hepatoprotective effect of Ginkgo biloba extract against methotrexate-induced hepatotoxicity via targeting STAT3/miRNA-21 axis. 2020,
- 45- Iman O. Sherif & **Nora H. Al-Shaalan**, Alleviation of remote lung injury following liver ischemia/reperfusion: Possible protective role of vildagliptin, 2021, 91, 107305.
- 46- Praveen Kumar Gopi, Srinithi Subburaj, Tse-Wei Chen, Shen-Ming Chen, **Nora Hamad Al-Shaalan**, Mohamed Ouladsmane, Mohammad Ajmal Ali, Xiaoheng Liu, An expedition of WBiVO4 blended f-MWCNTs nanocomposite for enhanced electrochemical detection of non-steroidal anti-inflammatory drug acetaminophenol, Colloids and Surfaces A: Physicochemical and Engineering Aspects 618 (2021) 126454.

- 47- K. Bhuvaneswari G. Palanisamy G. Bharathi T. Pazhanivel Indra Raj Upadhyaya M.L Aruna Kumari R.P. Rajesh Mani Govindasamy Ayman Ghfarf, **Nora Hamad Al-Shaalan**, Visible light driven reduced graphene oxide supported ZnMgAl LTH/ZnO/g-C3N4 nanohybrid photocatalyst with notable two-dimension formation for enhanced photocatalytic activity towards organic dye degradation, Environmental Research, 197.111079, 2021,
- 48- Lamya H. Al-Wahaibi, Divya Sri Grandhi, Samar S. Tawfik, **Nora H. Al-Shaalan**, Mohammed A. Elmorsy, Ali A. El-Emam, M. Judith Percino, and Subbiah Thamotharan, Probing the Effect of Halogen Substituents (Br, Cl, and F) on the Noncovalent Interactions in 1-(Adamantan-1-yl)-3-arylthiourea Derivatives: A Theoretical, Acs Omega, 2021, 6, 4816–4830.
- 49- Faiz Ali, Zeid A. AlOthman, **Nora Hamad Al-Shaalan**; Mixed-mode open tubular column for peptide separations by capillary electrochromatography, Journal of separation science, 2021, 44, 2602-2611.
- 50- G. Palanisamy, **Nora Hamad Al-Shaalan**, K. Bhuvaneswari, G. Bharathi, G. Bharath, T. Pazhanivel, Sathishkumar V E, Madan Kumar Arumugam, S.K. Khadeer Pasha, Mohamed A. Habila, Adel El-Marghany; An efficient and magnetically recoverable g-C3N4/ZnS/CoFe2O4 nanocomposite for sustainable photodegradation of organic dye under UV–visible light illumination, Environmental Research, 2021.
- 51- Iman O. Sherif, **Nora H. Al-Shaalan** and Dina Sabry, Neuroprotective Potential of Bone Marrow-Derived Mesenchymal Stem Cells Following Chemotherapy; Biomedicines 2021, 9(7), 750.
- 52- Mezna Saleh Altowyan, Saied M. Soliman, Matti Haukka, **Nora Hamad Al-Shaalan**, Aminah A. Alkharboush and Assem Barakat; [3+2]Cycloaddition Reaction for the Stereoselective Synthesis of a New Spirooxindole Compound Grafted Imidazo [2,1-b]thiazole Scaffold: Crystal Structure and Computational Study, Crystals 2022, 12, 5.
- 53- Mezna Saleh Altowyan, Saied M. Soliman, Matti Haukka, **Nora Hamad Al-Shaalan**, Aminah A. Alkharboush and Assem Barakat; Synthesis of Unexpected Dimethyl 2-(4 Chlorophenyl)-2,3-dihydropyrrolo[2,1-a]isoquinoline-1,dicarboxylate via Hydrolysis/ Cycloaddition/Elimination Cascades: Single Crystal X-ray and Chemical Structure Insights, Crystals 2022, 12, 6.
- 54- Lamya H. Al-Wahaibi, Mohnad Abdalla, Y. Sheena Mary, Y. Shyma Mary, Renyer Alves Costa, Meenakshi Rana, Ali A. El-Emam, Hanan M. Hassan & Nora H. Al-Shaalan, Spectroscopic, Solvation Effects and MD Simulation of an Adamantane-Carbohydrazide Derivative, a Potential Antiviral Agent, Polycyclic Aromatic Compounds, 2022.
- 55- **Nora H. Al-Shaalan**, Jenny Jeehan Nasr, Shereen Shalan and Areej M. El-Mahdy, Use of green-modified micellar liquid chromatography for the determination of Imidocarb dipropionate residues in food samples, Microchemical Journal, 2022.

- 56- Lamya H. Al-Wahaibi, Karthick Vishal Asokan, **Nora H. Al-Shaalan**, Samar S. Tawfik, Hanan M. Hassan, Ali A. El-Emam, M. Judith Percino, and Subbiah Thamotharan, Supramolecular Self-Assembly Mediated by Multiple Hydrogen Bonds and the Importance of C–S···N Chalcogen Bonds in N'-(Adamantan-2-ylidene)hydrazide Derivatives, ACS Omega 2022, 7, 10608–10621.
- 57- **Nora Hamad Al-Shaalan**, Zeid A. ALOthman, Lamya Hamad Al-Wahaibi, Hadeel Alabdulmonem, Imran Ali, Thermodynamics, simulation and chiral recognition mechanism of of two asymmetric center quinolone, Talanta, 2022.
- 58- Mezna Saleh Altowyan , **Nora Hamad Al-Shaalan** , Aminah A. Alkharboush , Assem Barakat, and Saied M. Soliman, Synthesis, Molecular and Supramolecular Structure Aspects, and Antimicrobial Activity of the Centrosymmetric [Ag(5-Nitroquinoline)2]ClO4 Complex, Symmetry 2022, 14, 547.
 - 59- Iman O Sherif, **Nora H Al-Shaalan**, Alleviation of chemotherapy-induced acute lung injury via NLRP3/ ASC/ Caspase-1 signaling pathway, Toxicology Research, 2022, 1–9.
 - 60-Nora H. Al-Shaalan ,Jenny Jeehan Nasr ,Shereen Shalan ,Areej M. El-Mahdy, Inspection of antimicrobial remains in bovine milk in Egypt and Saudi Arabia employing a bacteriological test kit and HPLC-MS/MS with estimation of risk to human health, PLOS ONE, 2022.
 - 61- Ashraf Ali, Sarah Alharthi, Salma Shad, **Nora Hamad Al-Shaalan**, Preparation of polar embedded C18 stationary phase for efficient separation of peptides and proteins in HPLC; Journal of Chromatography A, Volume 1684, 22 November 2022, 463534.
 - 62-Ashraf Ali, Sarah Alharthi, **Nora Hamad Al-Shaalan** and Eman Y. Santali, Development of Narrow-Bore C18 Column for Fast Separation of Peptides and Proteins in High-Performance Liquid Chromatography, Polymers 2022, 14.
 - 63- Mezna Saleh Altowyan, Saied M. Soliman, Matti Haukka, **Nora Hamad Al-Shaalan**, Aminah A. Alkharboush and Assem Barakat; Synthesis and Structure Elucidation of Novel Spirooxindole Linked to Ferrocene and Triazole Systems via [3 + 2] Cycloaddition Reaction, Molecules 2022, 27, 4095.
 - 64- Mezna Saleh Altowyan*, Saied M. Soliman, Matti Haukka, **Nora Hamad Al-Shaalan**, Aminah A. Alkharboush, and Assem Barakat; Synthesis, Characterization, and Cytotoxicity of New Spirooxindoles Engrafted Furan Structural Motif as a Potential Anticancer Agent, ACS Omega 2022, 7, 40, 35743-35754.

- 65- Hakan S. Sayiner, Mehmet I. Yilmazer, Aisha. T. Abdelsalam, Mohamed A. Ganim, Cengiz Baloglu, Yasemin Celik Altunoglu, Mahmut Gür, Murat Saracoglu, Mohamed S. Attia, Safwat A. Mahmoud, Ekram H. Mohamed, Rabah Boukherroub, **Nora Hamad Al-Shaalan**, Sarah Alharthi, Fatma Kandemirli and Mohammed A. Amin. Synthesis and characterization of new 1,3,4-thiadiazole derivatives: study of their antibacterial activity and CT-DNA binding; RSC Adv., 2022, 12, 29627-29639.
- 66- Lamya H. Al-Wahaibi , Olivier Blacque , **Nora H. Al-Shaalan** , Edward R. T. Tiekink and Ali A. El-Emam, Crystal structure of 2-({[5-(adamantan-2-yl)-2-sulfanylidene-1,3,4-oxadiazolidin-3-yl]methyl}amino)benzonitrile, C20H22N4OS; Z. Kristallogr. N. Cryst. Struct. 2023; 238(1): 45–47.
- 67-Nora Hamad Al-Shaalan, Zeid A. ALOthman, Lamya Hamad Al-Wahaibi, Hadeel Alabdulmonem, Imran Ali, Thermodynamics and Modeling Studies of the Enantiomeric Resolution of Four Optical Isomers of DL-Leucine-DL-Tyrosine Dipeptide, SSRN. 2023.
- 68- Mudasser Husain, Nasir Rahman, Mongi Amami, Tahir Zaman, Mohammad Sohail, Rajwali Khan, Abid Ali Khan, Saima Ahmad Shah, Saeedullah, Aurangzeb Khan, Ali H. Reshak, **Nora Hamad Al-Shaalan**, Sarah Alharthi, Saif A. Alharthy, Mohammed A. Amin & Vineet Tirth., Predicting structural, optoelectronic and mechanical properties of germanium based AGeF3 (A = Ga and In) halides perovskites using the DFT computational approach, Optical and Quantum Electronics volume 55, Article number: 536 (2023)
- 69- Lamya H. Al-Wahaibi , Olivier Blacque , **Nora H. Al-Shaalan** , Edward R. T. Tiekink and Ali A. El-Emam., Crystal structure of N-ethyl-4-[3-(trifluoromethyl)-phenyl]piperazine-1-carbothioamide, C14H18F3N3S, Zeitschrift für Kristallographie New Crystal Structures, 2023. 238 (1) , pp.45-47.
- 70- Muhammad Rauf, Said Karim Shah, Ali Algahtani, Vineet Tirth, Abdulaziz H. Alghtani, Tawfiq Al-Mughanam, Khizar Hayat, **Nora Hamad Al-Shaalan**, Sarah Alharthi, Saif A. Alharthy and Mohammed A. Amin.; Application of ZnO-NRs@Ni-foam substrate for electrochemical fingerprint of arsenic detection in water, RSC Adv., 2023, 13, 14530.
- 71- Gohar Ayub, Abdur Rauf, ∇∇ Mudasser Husain, Ali Algahtani, Vineet Tirth, Tawfiq Al-Mughanam, Abdulaziz H. Alghtani, Nourreddine Sfina, Nasir Rahman, Mohammad Sohail, Rajwali Khan, Ahmed Azzouz-Rached, Aurangzeb Khan, **Nora Hamad Al-Shaalan**, Sarah Alharthi, Saif A. Alharthy, and Mohammed A. Amin., Investigating the Physical Properties of Thallium-Based Ternary TlXF3 (X = Be, Sr) Fluoroperovskite Compounds for Prospective Applications, ACS Omega, 2023.

- 72- Ashraf Ali , Sarah Alharthi , Nora Hamad Al-Shaalan , Alia Naz and Hua-Jun Shawn Fan, Efficient Removal of Hexavalent Chromium (Cr(VI)) fromWastewater Using Amide-Modified Biochar, Molecules 2023, 28, 5146.
- 73- Marwa R. El-Zahry, Jenny Jeehan M. Nasr, **Nora H. Al-Shaalan**, Amer F. Mahmoud, SERS study of classical and newly β-lactams-metal complexation based on in situ laser-induced coral reefs-like silver photomicroclusters: In vitro study of antibacterial activity, Journal of Pharmaceutical and Biomedical Analysis, Volume 235, 25 October 2023, 115617.