

Dr. Saeeda Nadir Ali

Associate Professor

A- Contact Details

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B- Research Interest

- Method development and validation by HPLC
- Drug-Drug and Drug-Metal Interaction
- Pesticides determination by chromatography
- Synthesis of Drug-Metal Complex and Structure Elucidation
- Spectrophotometric Studies of Charge Transfer Complexes
- Liquid Chromatography
- Industrial waste management
- Biosurfactant extraction
- Nanochemistry

C- Academic qualification

PhD (Chemistry) 2014 Department of Chemistry, University of Karachi, Pakistan.
MSc (Chemistry) 2006 Department of Chemistry, University of Karachi, Pakistan.

D- Professional Experience

- **Focal Person Technology & Innovation Support Center (TISC)**, ORIC, NEDUET (Feb 2023 to-date)
- **ISO Coordinator of ORIC**, ORIC, NED University of Engineering and Technology (Dec 2022 to-date)
- **Manager TT & UIL**, ORIC, NED University of Engineering and Technology (June 2022 to-date)
- **Associate Professor**, Department of Chemistry, NED University of Engineering & Technology (Aug 2017 to-date)
- **Contract Faculty**, Department of Chemistry, NED University of Engineering and Technology (Feb 2014-Aug 2017)
- **Assistant Professor**, Department of Chemistry, NED University of Engineering & Technology (June 2014-May 2015)
- **Co-operative Teacher:** Department of Chemistry, University of Karachi. (Sept 2007-Dec 2007)
- **Research Fellow:** Pakistan Agricultural Research Council, University of Karachi. (April 2007-June 2007)

E- Professional Recognitions

- Life time member of The Chemical Society of Pakistan.
- PEC STEM Ambassador (Jan 2024 to-date).

F- Awards and honors

- Received **Best Researcher Award** in March 2024 from NED University of Engineering and Technology.
- Delivered **Keynote Talk** on the topic entitled "**Climate Change and Biodiversity**", at 2nd International Conference on Green and Sustainable Environment (ICGSE 2024) organized by Sindh Madressatul Islam University, held on February 28-29, 2024.
- Served as **Session Chair** in 2nd International conference on Green and Sustainable Environment (ICGSE 2024) organized by Department of Environmental Sciences, Sindh Madressatul Islam University, Karachi on 28-29 February 2024.
- Received **Research Monitory Award** in November 2023 on publishing research article in HEC Recognized Journal.
- Served as **Session Moderator** in three National Idea Bank City Level Competition-2022-23.
- Served as **Session Co-Chair** in 1st Global Research Congress held at Sindh Madressatul Islam University during March 8-9, 2023.

- Honored to be **Conference Secretary** in 2nd International Industrial Chemistry Conference-2023, organized by Department of Chemistry NED UET during 3-4 March 2023.
- Received **Financial Reward** in May 2022 for publishing research article in HEC Recognized Journal.
- Received **Research Monitory Awards** in August 2021 on publishing research article in HEC Recognized Journal.
- Honored to be **Head of Editorial Board** and **organizing committee member** in ICAPE-2021, NEDUET.
- Served as a **Conference Secretary** in 1st International Industrial Chemistry Conference-2021 organized by Department of Chemistry NEDUET during 26-28 Feb 2021.
- Served as a **Session Chair** in 1st International Conference on Advances in Material Science and Environmental Engineering organized by Department of Metallurgical Engineering on 25th -26th June 2021
- Honored to be judge in Sindh Provincial Science Fair organized by Intel Pakistan Corporation on 27-29 Oct 2015.
- Received **Session Best Paper Award** in 2nd International Conference on Chemical, Biological, and Environmental Sciences (ICCBES' 15) held on May 20-21, 2015 at Dubai (UAE).
- Awarded **HEC Indigenous Scholarship** Batch IV in 2007.
- Qualified **Graduate Assessment Test** conducted by National Testing Service in January 2007.

G- Professional Meetings/ Training/ Workshops/ Certificate Courses

- Meeting and Networking with Sabine Vermillard (Attachée for Scientific & Higher Education Cooperation, Islamabad) (C/O PERIDOT Project-2022) at **French Embassy** on 11th March 2024.
- Meetings with Prof. Dr. Abdul Wadood (Head of the Department of Materials Science and Engineering) and research faculty Dr. Saima Shabbir and Dr. Muhammad Atiq Ur Rehman to explore the laboratories and testing facilities available at **Institute of space Technology, Islamabad**, with the aim to enhance the collaboration between NEDUET and IST Islamabad, focusing on resource and expertise sharing between the two institutions in March 2024.
- Attended the meeting led by Saima Kanwal LL.M Kanwal (**TISC Coordinator (South)**), IPO Pakistan with Shams-un-Nisa Hashmi and Zubia Hassan on February 19, 2024, at the Patent Office, Karachi. The meeting focused on IP capacity building and support for researchers and entrepreneurs at NEDUET.
- Attended two-days **“Train the Trainers workshop for the Office of Research Innovation and Commercialization (ORIC)”** organized by Higher Education Commission Pakistan in collaboration with Invest2Innovate (i2i) on 2nd and 3rd November 2023 at Jinnah University for Women.
- Attended two-day training seminar on **Technology Search and Development of Technology and Innovation Support Center (TISCs) in Pakistan** organized by IPO, Pakistan in collaboration with World Intellectual Property Organization – WIPO and Higher Education Commission Pakistan on 23-24 Oct, 2023 at IBA, Karachi.
- Successfully completed online Specialized Course on **The Essentials of Patents** conducted by WIPO in August 2023.
- Attended three-days ORICs Capacity Building Training on **“From Lab to Market-Mastering Research Commercialization & Innovation”** held from August 1-3, 2023 organized by Higher Education Commission Pakistan (HEC) and Invest2Innovate (i2i).
- Successfully completed the distance learning **“General Course on Intellectual Property”** offered by World Intellectual Property Organization – WIPO Academy during April 18th to June 2nd, 2023.
- Attend the Consultative Session organized by IPO Pakistan on **“Proposed amendments in Patent Ordinance, 2000, and the accession of Pakistan to Patent Cooperation Treaty”**. The session was held on March 24th, 2023, at TDAP, Finance & Trade Centre, Karachi.
- Attended two-day training arranged by HEC-HEDP and i2i on **“Business Incubation Centre Management”** at Kinnaird College for Women Lahore during 8th and 9th February 2023.
- Attended online workshop on **“How to present at National Idea Bank”**, organized by National Idea Bank in Jan 2023.
- Attended Webinar on **“Accelerate your research using Elsevier’s Scopus”** organized by Elsevier in collaboration with NEDUET on January 13th, 2022.
- Attended **1st International Seminar on Chemistry and Chemistry Education** organized by University of Pattimura, Indonesia and presented the research entitled **“Statistical Experimental Design for Simultaneous Determination of Antidiabetic Drugs with NSAIDs by Liquid Chromatography”** on September 23rd, 2021.
- Attended online workshop on **Emerald guide to Getting published** in April 2020.
- **IRCA ISO 9001:2015 QMS Auditor/Lead Auditor Course** organized by QEC, NED University of Engineering and Technology, Karachi during March 15-19, 2021. (Course Instructor: Mr. Raheel Ehsan, Senior Lead Assessor, LRQA)
- **Higher Education Teacher's Training** organized by NED University of Engineering and Technology, Karachi during October 1st, 2019 to December 13th, 2019. (Course Instructor: Dr. Huma Khalid)
- **Strategic Time Management Workshop** organized by Timelenders during 23rd-25th November 2018. (Instructor: Mr. Kamran Zahid)

- **Strategic Vision Workshop** organized by Timelenders during 11-13th May 2018. (Instructor: Mr. Yameenuddin)
- **Faculty Development Program** training organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 15th Jan-2nd Feb, 2018.
- **Publication Ethics, Peer Review and Metrics** by Elizebath Wager (Publications Consultant, Sideview, UK, Ex Chairperson COPE, Member of Ethics Committee for BMJ & WAME) held at Metropolitan Palace, Dubai UAE on August 13-14th, 2015.
- **Developing a Successful Journal** by Pippa Smart (Research communication and publishing consultant, UK) held at Metropolitan Palace, Dubai UAE on August 13-14th, 2015.
- **C21st Marketing for Scholarly Journals** by Rachel Maund (Marketability, a UK-based publishing consultancy. London) held at Metropolitan Palace, Dubai UAE on August 13-14th, 2015.
- A Lecture Series on **Modern Mass Spectrometry** by Prof. Dr. David Smith (University of Nebraska, USA) held at LEJ International Center for Chemical and Biological Sciences, University of Karachi. (2009)
- Three Months Certificate Course of **Medical Transcription** from Efrogtrain Institute (2004).

H- Academic and Administrative Responsibilities

i. Committee Work

- Member ORIC Steering Committee (2022-to-date)
- Member Board of Review-ORIC (2022-to-date)
- Member SAR (BS, MS and PhD) Committee
- Member Steering Committee FYDP (2021 to-date)
- Member Committee to check Effectiveness of Free Digital Resources in line with BS Industrial Chemistry (2021)
- Member Course Review Committee (2019-date)
- Member Industrial Advisory Board (2017 to-date)
- Member Examination Review committee (2017-to-date)
- Member Board of Studies (2017-to-date)
- Member Postgraduate Self Review Committee (2017-to-date)
- Member MS and PhD Admission Committee (2014-to-date)
- Member Open day Committee (2014-to-date)

ii. Administrative tasks

- OBE Co-ordinator (2022 to-date)
- Alumni Co-ordinator (2021 to-date)
- Conference Secretary 2021 and 2023 (1st and 2nd International Industrial Chemistry Conference IICC-2021 and IICC-2023)
- LMS Facilitator for online classes Spring and Fall Semester 2020
- SSIC Undergraduate Counsellor (2020 to date)
- Assisted head invigilator in Spring Semester Examination 2019
- Focal Person Library 2019
- Focal Person Community Outreach Programme 2018 to-date
- Chemistry Lab-III In charge (2019 to-date)
- Class Advisor 2015-2018

iii. Industrial Visits Organized for Undergraduate Students

- 2018 Nextar pharma (A Subsidiary of The Searle Company Ltd-Pakistan) (SSIC Batch 2016-17)
- 2018 SGS Pakistan (Private) Limited (FSIC Batch 2017-18)
- 2015 International Center for Chemical and Biological Sciences (ICCBS) (FSIC Batch 2014-15)
- 2014 Pakistan Council of Scientific and Industrial Research (PCSIR) (FSIC Batch 2013-14)

iv. Industrial Invited Talks/Alumni Session Organized for Undergraduate Students

2023	Matco Foods Limited	Career Counselling Session by Mohammad Shahzaib Sheikh and Nabeel Waseem
2021	Dewan Sugar Mill and Distillery Division	Potential of Ethyl Alcohol Manufacturing for Professional Engineers and Analytical Experts in Pakistan and its Significance in Pakistan's Economy and Globle Economy ” by Mr. Adnan Javed Pirzada
2021	Indigo Textile Pvt, Ltd	Denim Manufacturing Process by Mr. Faisal Aziz
2019	Gets Pharma, Ltd.	Quality Control Department in Pharmaceuticals by Mr. Abdul Samad, Mr. Muhammad Fahad and Mr. Muhammad Azhar
2019	Martin Dow Marker Specialties Pvt Ltd.	Alumni Lecture by Mr. Mubbashir and Mr. Anus
2019	ICI Pharmaceuticals	Quality Assurance by Mr. Hammad Khan and Mr. Muhammad Faizan
2019	Archroma Pakistan	Quality Management by Ms. Iffat Zahra (Country Manager)
2019	BASF, Pakistan Pvt. Ltd.	Resume Writings, Customization of CV & Cover Letter by Mr. Taha Saeed (Senior Manager, Business Management & Sales)
2018	Timelenders	Kuch Khowab Hain Jin Ko by Mr. Kamran Zahid
2018	Martin Dow Marker Specialties Pvt Ltd.	Chromatography and Cosmetics by Mr. Sheraz Akhter
2015	Merck Private Limited	Role and Application of Industrial Chemist in Industry by Mr. Sheraz Akhter

v. Seminar/Workshops Organized

- Conducted one-day Webinar on **How to Use Mendeley** for undergraduate students on March 9th, 2021.
- Organized two-days **Hands on Workshop on HPLC** at Chemistry Department, NEDUET on Dec 23-24th, 2021.
- Delivered two lectures in Hands on Workshop on HPLC on the topic “**Introduction to High Performance Liquid Chromatography**” and “**Interpreting Chromatogram**”.

vi. Reviewer and External Examiner

- Reviewer **Arabian Journal of Chemistry**-Publisher Elsevier (2024).
- External Examiner of **PhD Thesis Defence**, Department of Chemistry, University of Karachi (2023)
- **External Examiner (MS Thesis)**; Federal Urdu University of Art science and technology (2020, 2023, 2024)
- **Thesis Evaluator and External Examiner** at Sindh Madressatul-Islam University (2020-to-date)
- **HEC projects**
 - Local Challenge Fund (Batch 2021)
 - NRPU Projects (Batch 2021)
 - CPEC (Batch 2021)
 - Rapid Research Grant (Batch 2020)
 - Grand Challenge Fund (Batch 2020)

vii. Community Outreach Programme

- **Focal Person (Batch 2021 and 2022)**
 - Supervised community service activity of Batch 2021 and 2022 conducted at Dar-UI-Sukun in Aug 2023.
- **Focal Person (Batch 2020)**
 - Supervised FSIC students for preparation of digital contents and charts and also demonstration and performance of Chemistry, Biology and Computer practical physically in campus maintaining COVID-19 SOPs to the students of grade IX at Cowasjee School NEDUET.
 - SSIC students contributed in organizing the chemistry, biology & Physics Lab, de-monstrated the at Hali Muslim school, Nishtar Road, Garden East, Karachi. (26-June-2021 to 02-July-2021)
- **Focal Person (Batch 2017-18)**

Achievement:

 - A ghost school became functional after 8 years
 - 27 coconut trees were planted at public ground Near Alfalah Mosque, North Nazimabad.
- **Focal Person (Batch 2019) (Chemistry, Physics, Computational Finance)**
 - 125 trees were planted at public ground Near Alfalah Mosque, North Nazimabad.

I- Professional Skills

- Shimadzu 1600 & 1800 double beam UV–visible spectrophotometer (Version 2.32 Software)
- Shimadzu SPD-20A Liquid Chromatographic System (CLASS-GC software Version 10.0)
- Shimadzu Prestige-21200VEC FT-IR (Version 1.2 software)
- Chem. Office
- Minitab 17
- SPSS 16
- STATISTICA 7
- Mendeley
- Adobe Illustrator
- Microsoft Visio

J- Patents Filed

- 2024 Molecular Charge Transfer Complexes of Linagliptin with 2, 3-Dichloro-5,6-Dicyano-1,4-Benzoquinone, Chloranilic Acid, and Ninhydrin and Synthesis Method Thereof
- 2023 Improved Extraction Process of Sugarcane Wax from Bagasse Collected from Sugar Mills of Sindh Province of Pakistan
- 2017 Promethazine-Curcumin Charge Transfer Complex for Solar Cell Application

K- Research Mobility/Travel

- 2024 Le Mans University, France Meetings with Dr. Jean PILARD and his team on Pak-France PERIDOT 2022 Project regarding **Edible Coating Preparation**.
- 2023 Le Mans University, France Meetings with Dr. Philippe Daniel and his team on Pak-France PERIDOT 2022 Project on the agenda of **Sugarcane Wax Extraction**.
- 2019 Mahidol University, Thailand Presented Research Article in Pure and Applied Chemistry Conference (PACCON-2019) on **Pesticide determination in Rice Samples**.
- 2015 ICCBES'15 Dubai Presented Research Article in ICCBES,15 on **Charge Transfer Complexes** and received Session Best Paper Award.
- 2013 15th ACC, Singapore Presented Research Findings on method development and validation for **drug determination in pharmaceutical formulation** in 15th Asian Chemical Congress, Singapore.

L- Research Project

L1-Ongoing

Year	Scope	Funding agency	Amount in million (PKR)	Approved duration
2023	Batch Extraction and characterization of sugarcane wax from sugar industry surplus: Application as an edible coating	HEC-NRPU	10.272	03 years

L2-Completed

Year	Scope	Funding agency	Amount in million (PKR)	Approved duration
2022	Production of Highly Valuable Sugarcane Wax- A Way Forward to Sugarcane By-Product Based Industry	Sindh HEC	3.115	02 years

2022	Extraction and characterization of sugarcane wax from sugar industry surplus: Application as an edible coating	HEC-PERIDOT	2.200	02 years
2022	Molasses composition determination.	Dewan Sugar Mill	In Kind Collaboration	01 year
2016	Spectrophotometric studies of drugs and pesticides charge transfer complexes	SRGP-HEC	Rs. 0.31 M	01 year

M- Research activities

a. PhD Level Project (Supervision/Co-supervision)

Year	Name of Scholar	Title	Status
1	Sameera Zaki	Preparation and Characterization of Sugarcane-Wax-Based Edible Coatings to Enhance the Post-Harvest Quality of Fruits and Vegetables	On going
2	Shaz Asrar	Development of Flavonoid Capped Bimetallic Nanoparticles for Pharmaceutical Applications	On going

b. Masters Level Project (Supervision/Co-supervision)

Year	Batch	Title	Status
1	Hafsa Wahid 2024	Synthesis and Characterization of Flavonoid-stabilized Al1oy Nanoparticles and Their Evaluation in Pharmaceuticals Applications	On going
2	Tehreem Sadaqat 2024	Development of Catechin Stabilized Bimetallic Nanoparticles and Evaluation of Their Potential Pharmaceutical Applications.	On going
3	Ghina Mumtaz Alvi 2023-2024	Green Extraction of Sugarcane Wax from Bagasse: An Experimental Study	On going
4	Muzna Aqeel 2023-2024	Synthesis, Characterization and Biological Studies of Curcumin-Loaded Solid Lipid Nanoparticles	On going
5	Ramsha Shamshad 2023-2024	Synthesis of Wax-based Nanoparticles as a Novel Carrier of Statin to Lower the Cholesterol Level: Characterization and Biological Evaluation	Completed
6	Hira Shahid 2022-2023	Green Liquid Chromatographic Method Development and Validation for Simultaneous Determination of Ertugliflozin and Metformin in Bulk Drug and Pharmaceutical Formulation.	Completed
7	Kashmala Baloch 2023-2024	Green Liquid Chromatographic Method Development and Validation for Simultaneous Determination of Ertugliflozin and Diclofenac Potassium in Bulk Drug and Pharmaceutical Formulation.	Completed
8	Muzamil Jalil Ahmed 2023-2024	Post-Consumer Waste Valorisation for the Development of Asymmetric Thin Film Composites	Completed
9	Marrim Sajjad 2023-2024	Development and Characterization of Fluoroquinolone Loaded Solid Lipid Nanoparticles: Antimicrobial Evaluation	Completed
11	Faisal Shamim 2022-2023	Method Development, Optimization, and Validation for the determination of Analytical Drug by Liquid Chromatography.	Completed

12	Afzal Irshad 2022-2023	Development, optimization and validation of liquid chromatographic method for quantitative determination of diclofenac sodium with omeprazole in bulk and pharmaceutical formulation	Completed
13	Kinza Khan 2022-2023	Development of Green Liquid Chromatographic Method for Finished Product Testing of Drugs for Arthritis: Software Design for Greenness Evaluation Using Analytical Eco Scale Approach	Completed
14	Salahuddin Shafeeq 2022-2023	Optimization and Validation of Liquid Chromatographic method for Quantitative determination of Baricitinib in Pharmaceutical formulation.	Completed
15	Muhammad Aamir 2020-2021	Quantitative analysis of Treatment of anaemia patients with chronic kidney disease with Roxadustat by Ultra-performance liquid chromatography	Completed
16	Erum Manzoor 2020-2021	Application of Spray Drying Technique to produce Free Flowing Powder of <i>Tribulus terrestris</i> Extract	Completed
17	Sultan Mehmood 2020-2021	Liquid Chromatographic method Validation and Optimization for Quantitative determination of Favipiravir in Pharmaceutical formulations	Completed
18	Aiman Rasheed 2020-2021	Synthesis, spectroscopic, theoretical studies on molecular charge-transfer complex of anti-covid drug with σ and π acceptors	Completed
19	Muhammad Faizan 2020-2021	Comparison of Full Factorial, Box-Behnken and Central Composite Design for Robustness Study of the Simultaneous Liquid Chromatographic Determination or Citalopram with Antihistamines	Completed
20	Raes Anis 2019-2020	Optimization of liquid chromatographic separation of anti-hypertensive drugs with statin within green analytical chemistry framework: Application in pharmaceutical formulation	Completed
21	Hafiz Abdul Samad 2019-2020	Quantitative analysis of anti-Covid drugs remdesivir by high performance liquid chromatography	Completed
22	Mr. Zia Saeed 2019-2020	Study of forced degradation behavior of vonoprazan fumerate in pharmaceutical formulation using liquid chromatography	Completed
23	Ms. Sana Saleem 2018-19	Statistical experimental design for simultaneous determination of antidiabetic drugs with NSAIDs by liquid chromatography	Completed
24	MR. M. Bilal Abbasi 2018-19	Statistical experimental design for simultaneous determination of antihypertensive drugs with NSAIDs by liquid chromatography	Completed
25	Mr. Syed Bilal Ali 2016-17	In-vitro interaction studies of antiviral drugs with NSAIDs by liquid chromatography: Application in pharmaceutical formulation and human Serum	Completed
26	Ms. Sameera Zaki 2017-18	Spectrophotometric determination of antidiabetics through charge transfer complexes and spectral characterization	Completed
27	Mr. Irshad Alam 2017-18	Liquid chromatographic and cyclic voltammetric method for simultaneous determination of cardiovascular drugs with antidiabetic drugs: Application to in vitro dissolution studies	Completed
28	Mr. Junaid Ul Haq 2017-18	Liquid chromatographic and cyclic voltammetric method for simultaneous determination of antiviral drugs with	Completed

		cardiovascular drugs: Application to in-vitro dissolution studies	
29	Ms. Aneeqa Khalid 2016-17	Health concerns of pesticides driven from food produces	Completed
30	Ms. Nida Naz 2014-15	LC-UV method for determination of citalopram with simultaneously prescribed medicines in raw material and commercial preparation.	Completed
31	Ms. Shumaila Akram 2014-15	Liquid chromatographic method for simultaneous determination of alprazolam with co-prescribed drugs in bulk and dosage formulations.	Completed
32	Ms. Saman Naeem 2014-15	Spectrophotometric determination of antihistamine through charge transfer complexes.	Completed

c. Final Year Project (Supervision/Co-supervision)

Year	Batch	Title	Status
2022-24	2020	Impact of Sugarcane Wax Based Edible Coating on a Post-Harvest Quality of Fresh Fruits/Vegetables	On going
2022-24	2020	Exploring the use of Sugarcane wax in cosmetics: An experimental study	On going
2022-23	2019	Characterization of Molasses Chemical Composition	Completed
2022-23	2029	Synthesis & Characterization of Wax-based Nanoparticles	Completed
2022-23	2019	Wax Based Edible Coating Preparation	Completed
2021-22	2018	Development of edible coating using wax extracted from press mud and its application on fruits & vegetables for quality assessment.	Completed
2021-22	2018	Development of edible coating using wax extracted from press mud and its application on fruits & vegetables for quality assessment.	Completed
2021-22	2018	Production of highly potential standardized herbal extract of <i>Adhatoda vasica</i> (L.)	Completed
2020-21	2017-18	Application of organic wax obtained from sugar industry waste	Completed
2019-20	2016-17	Extraction, purification and characterization of organic wax from sugarcane peels and bagasse	Completed
2018-19	2015-16	Statistical experimental design for robustness testing for simultaneous determination of anti-cardiac with anti-viral drugs by liquid chromatography	Completed
2017-18	2014-15	Extraction and purification of organic wax from press mud produced by sugar industries	Completed
2016-17	2013-14	Purification and characterization of Biosurfactant	Completed

M- Publication

1. Sameera Zaki, **Saeeda Nadir Ali**, Amtul Qayoom, Rafiq Ahmed, Aiman Rasheed Khan (2024) Green synthesis, spectroscopic and theoretical studies on molecular charge-transfer complex of linagliptin with 2, 3-dichloro-5,6-dicyano-1,4-benzoquinone, chloranilic acid and ninhydrin. *Journal of Molecular Liquids* 401 (2024): 124696.
2. Muhammad Amir, Muhammad Sajid Ali Asghar, **Saeeda Nadir Ali** (2024) Characterization and antimicrobial properties of cotton fabric loaded with green synthesized silica nanoparticles. *Jurnal Kejuruteraan*, 36(2), 811-816.

3. Hafiz Abdul Samad, **Saeeda Nadir Ali**, Amtul Qayoom, Urooj Haroon, Muhammad Saad, Ghina Mumtaz Alavi. (2023) Development, validation and forced degradation studies of green liquid chromatographic method for determination of remdesivir in bulk drug and pharmaceutical formulation. *Pakistan Journal of Pharmaceutical Sciences*, 36(1), 159-170.
4. Amtul Qayoom, **Saeeda Nadir Ali**, Rafiq Ahmed, Neha Kanwal and Shazia Nisar. (2023) Synthesis, Characterization and Statistical Optimization of Hydrophobic/Oleophilic Polystyrene Coated ZnO-Cotton Composite as Vegetable Oil Adsorbent. *Journal of Chemical Society of Pakistan*, 45(6), 368.
5. Irshad Alam, **Saeeda Nadir Ali**, Amtul Qayoom, Rehana Bibi, Muzna Aqeel, Haji Muhammad, "Green Liquid Chromatographic Method for Simultaneous Determination of Metformin, Linagliptin and Rivaroxaban: Tablet Manufacturing and Application to In-Vitro Dissolution Studies," *Microchem. J.*, p. 109025, 2023, doi: <https://doi.org/10.1016/j.microc.2023.109025>.
6. Aneeqa Khalid, **Saeeda Nadir Ali**, Amtul Qayoom, Sajid Iqbal, Sadia Ansari, Zahoor Ul Hussain Awan, Farah Kishwar, Philippe Daniel. (2022) High Performance Liquid Chromatography–Ultraviolet Method for the Determination of Fludioxonil Fungicide Residues: Application on Rice Grains Cultivated in Pakistan. *Arabian Journal of Chemistry*, 15(4) 103692.
7. Nida Naz, **Saeeda Nadir Ali**, Amtul Qayoom, Sajid Iqbal, Shumaila Akram (2021) "Rapid and Sensitive Method for Simultaneous Determination of Citalopram with Antihistamines by Liquid Chromatography". *Pakistan Journal of Pharmaceutical Sciences*. 34(3)835-841
8. Amtul Qayoom, Yuh-Shan Ho, **Saeeda Nadir Ali** (2020). Bibliometric Analysis of Adsorption Literatures: Contribution from Pakistan (1991-2017) *Journal of Chemical Society of Pakistan*, 42(03), 474-487.
9. **Saeeda Nadir Ali**, Shumaila Akram, Amtul Qayoom, Nida Naz, Anjum Ayub (2020) Liquid chromatographic method for simultaneous determination of alprazolam with NSAIDs in bulk drug, pharmaceutical formulation and human serum. *Pakistan journal of pharmaceutical sciences*, 33(1) 121-127.
10. Saman Naeem, **Saeeda Nadir Ali**, Amtul Qayoom, Haji Muhammad, Shazia Nisar (2018) Charge Transfer Complexes of Antihistamines with Curcumin: Spectrophotometric Determination in Pharmaceutical Formulations." *Journal of the Chemical Society of Pakistan* 40(5): 904-904.
11. **Saeeda Nadir Ali**, Nida Naz, Amtul Qayoom, Shumaila Akram, Liquid Chromatographic Method for Simultaneous Determination of Citalopram with NSAIDs in Bulk Drug, Pharmaceutical Formulation and Human Serum. *Journal of Chemical Society of Pakistan*, 2017, 39 (6), 970-978.
12. Amtul Qayoom, Syed A. Kazmi, **Saeeda N. Ali** (2017) Kinetic Modelling of aqueous Cu (II) Adsorption onto Turmeric Powder: Effect of Temperature" *Journal of Chemical Society of Pakistan*, 39(3) 384-390.
13. **Saeeda Nadir Ali**, Najma Sultana, Amtul Qayoom, M. Saeed Arayne (2017) Synthesis and spectrophotometric study of omeprazole charge transfer complexes with bromothymol blue, methyl orange and picric acid *Moroccan Journal of Chemistry Vol 5(1)* 212-226.
14. Amtul Qayoom, Syed A. Kazmi, **Saeeda Nadir Ali**, (2017) "Equilibrium Modelling for Adsorption of Aqueous Cd(II) onto Turmeric: Linear versus Nonlinear Regression Analysis", *Moroccan Journal of Chemistry*, 5(2) 362-370.
15. Shumaila Akram, **Saeeda Nadir Ali**, Amtul Qayoom, Nida Naz (2017) High performance liquid chromatographic method for simultaneous determination of alprazolam with antihistamines in bulk drug, pharmaceutical formulation and human serum. *Sindh University Research Journal (Science Series)* 14:49(1) 7-12.
16. Amtul Qayoom, Syed Arif Kazmi, **Saeeda Nadir Ali** (2017) Turmeric powder as a natural heavy metal chelating agent: Surface characterization, *Pakistan Journal of Scientific & Industrial Research (PJSIR)*, 2017, 60(1) 1-8.
17. **Saeeda Nadir Ali**, Najma Sultana, Amtul Qayoom, Muhammad Saeed Arayne (2016) Liquid Chromatographic Determination of Alprazolam with ACE Inhibitors in Bulk, Respective Pharmaceutical Products and Human Serum." *Science International (Lahore)*, 28(4), 3815-3819.
18. Amtul Qayoom, Syed A. Kazmi, **Saeeda Nadir Ali** (2016) Adsorption Of Aqueous Cd (Ii) ions onto Turmeric Powder: Kinetic Modelling. *Science International (Lahore)*, 28(4), 3777-3782.
19. Shumaila Meraj, Amtul Qayoom, **Saeeda Nadir Ali**, (2016) "Effective Optimization of Indigo Dyeing Process: A Case Study" *Journal of New Technology and Materials*, 6(2) 33-37.
20. Sajid Iqbal, Sumayya Saied, Riaz Uddin, Abbas Bhutto, **Saeeda Nadir Ali**, Najmus Sahar and Mubarik Ahmed (2014) Half-Life study of imidacloprid in stored wheat grain at different temperatures. *American-Eurasian Journal of Agricultural & Environmental Sciences* 14:172-178.
21. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali** (2013) An Ultra-sensitive LC Method for the Simultaneous Determination of Paracetamol, Carbamazepine, Losartan and Ciprofloxacin in Bulk Drug, Pharmaceutical Formulation and Human Serum by Programming the Detector *American Journal of Analytical Chemistry* 4:24-33.

22. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali** (2013) Simultaneous liquid chromatographic determination of two co-prescribed anti-cancer drugs in bulk drug, dosage formulations and in human serum using multivariate technique: Application to in-vitro drug interaction. *Pharmaceutica Analytica Acta* 4:215.
23. Najma Sultana, M. Saeed Arayne, **Saeeda Nadir Ali** (2013) Ultra-sensitive simultaneous LC determination of pravastatin, diltiazem, naproxen sodium and meloxicam in API, pharmaceutical formulations and human serum by programming the detector. *American Journal of Applied Chemistry* 1:1-8.
24. Najma Sultana, M. Saeed Arayne, **Saeeda Nadir Ali** (2013) Charge transfer complexes of gamma aminobutyric acid-analogue, a neurotransmitter: Synthesis and spectrophotometric determination. *Journal of Bioanalysis and Biomedicine* 5:013.
25. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali** (2013) The use of chloranilic acid for the spectrophotometric determination of three macrolides through charge transfer complex. *Medicinal Chemistry* 3: 241-246.
26. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali** (2013) Spectrophotometric studies of lamotrigine charge transfer complexes: Synthesis and characterization. *Pharmaceutica Analytica Acta* 4:260.
27. Najma Sultana, M. Saeed Arayne, **Saeeda Nadir Ali** (2013) Spectrophotometric determination of quinolones by charge transfer complexation with chloranilic acid: Synthesis and characterization, *Medicinal Chemistry* 3:171-175.
28. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali** (2013) Liquid chromatographic method for the simultaneous determination of captopril, piroxicam and amlodipine in API, pharmaceutical formulation and human serum by programming the detector *Journal of Separation Science* 36:3176-3183.
29. Najma Sultana, M. Saeed Arayne, Moona Mehboob Khan and **Saeeda Nadir Ali** (2013) Development of liquid chromatography–UV method for simultaneous determination of leflunomide and NSAIDs in API and pharmaceutical formulations: It's Application to in-vitro interaction studies. *Medicinal Chemistry*3: 262-270.
30. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali** (2013) Synthesis and spectrophotometric determination of ibuprofen charge transfer complexes with p-chloranil, 7,7,8,8-tetracyanoquinodimethane, bromothymol blue, methyl orange and picric acid. *Journal of Bioanalysis & Biomedicine* 5: 122-129.
31. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali** (2012) Simultaneous determination of glipizide and glimepiride by RP-HPLC in dosage formulations and in human serum *Medicinal Chemistry Research* 21:2443-2448.
32. M. Saeed Arayne, Najma Sultana, Arman Tabassum, **Saeeda Nadir Ali** and Safila Naveed (2012) Simultaneous liquid chromatographic determination of rosuvastatin, lisinopril, captopril and enalapril in API, pharmaceutical formulation and human serum *Medicinal Chemistry Research* 21:4542-4548.
33. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali** (2012) Ultra-Sensitive Liquid Chromatographic Method for the Simultaneous Determination of Carbamazepine with NSAIDs in API, Pharmaceutical Formulation and Human Serum by Programming the Detector: Application to In Vitro Drug Interaction *Chromatography and Separation Techniques* 3:156.
34. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali** (2012) An Ultra-Sensitive LC Method for Simultaneous Determination of Rosuvastatin, Alprazolam and Diclofenac Sodium in API, Pharmaceutical Formulations and Human Serum by Programming the Detector *Analytical and Bioanalytical Techniques* 3:154.

N Research/Academic Visits (National and International)

Abstracts presented in International Conferences

1. **Saeeda Nadir Ali**, Sajid Iqbal, Ali Dad Chandio, Shahid Afghan. Extraction, Purification and Characterization of High-Value Organic Wax from Sugar Industry Bye-Products. 1st International Industrial Chemistry Conference (IICC-2021) organized by Department of Chemistry, NED University of Engineering and Technology, Karachi during 26-28th February 2021.
2. Aneeqa Khalid, **Saeeda Nadir Ali**, Sajid Iqbal, Sadia Ansari, Zahoor ul Hussain Awan, Farah Kishwar. "Residue Analysis of Fludioxonil Pesticide in Rice Grains by Liquid Chromatography with UV-detection". Pure and Applied Chemistry Conference, PACCON, jointly organized by Mahidol University and Chemical Society of Thailand during February 07-08, 2019.
3. Saman Naem, **Saeeda Nadir Ali**, Amtul Qayoom, Haji Muhammad, Shazia Nisar. Charge transfer complexes of Antihistamines: Spectrophotometric determination. (In process), 11th International Symposium on Analytical and Environmental Chemistry, organized by National Centre of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan on March 07-08, 2016.
4. Nida Naz, **Saeeda Nadir Ali**, Inayatullah Memon, Amtul Qayoom, Sajid Iqbal, Shumaila Akram "Rapid and Sensitive Method for Simultaneous Determination of Citalopram with Antihistamines by Liquid Chromatography", 11th International Symposium on Analytical and Environmental Chemistry, organized by National Centre of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan on March 07-08, 2016.

5. Shumaila Akram, **Saeeda Nadir Ali**, Amtul Qayoom, Inayatullah Memon and Nida Naz, Simultaneous determination of alprazolam with antihistamine in bulk drug and pharmaceutical formulation by liquid chromatography, 1st International Conference on Advance Materials and Process Engineering (AMPE) held on 14th-15th December, 2015 at Department of Chemical Engineering, NED University of Engineering and Technology, Karachi.
6. **Saeeda Nadir Ali**, Najma Sultana and M. Saeed Arayne, Synthesis and Spectrophotometric Study of Omeprazole Charge Transfer Complexes with Bromothymol Blue, Methyl Orange and Picric Acid, 2nd International Conference on Chemical, Biological, and Environmental Sciences (ICCBES'15) held on May 20-21, 2015 at Dubai (UAE).
7. **Saeeda Nadir Ali**, Najma Sultana and M. Saeed Arayne, Synthesis and spectrophotometric determination of ibuprofen charge transfer complexes with p-chloranil, 7,7,8,8-tetracyanoquinodimethane, bromothymol blue, methyl orange and picric acid, 10th International Symposium on Analytical and Environmental Chemistry held at National Centre of Excellence, University of Sindh Jamshoro on 02-04 December 2013.
8. **Saeeda Nadir Ali**, Najma Sultana and M. Saeed Arayne, Charge transfer complexes of gamma aminobutyric acid-analogue, a neurotransmitter: synthesis and spectrophotometric determination, International Conference on Physical and Environmental Chemistry (ICPEC-2013) held on September 9-11, 2013 at Baragali Summer Campus, University of Peshawar.
9. **Saeeda Nadir Ali**, Najma Sultana and M. Saeed Arayne, Three methods for the extractive spectrophotometric determination of omeprazole in bulk drug and dosage formulation using bromothymol blue, methyl orange and picric acid: synthesis and characterization, 15th Asian Chemical Congress (15ACC) 2013.
10. **Saeeda Nadir Ali**, Najma Sultana and M. Saeed Arayne, Liquid chromatographic method for the simultaneous determination of rosuvastatin, alprazolam and diclofenac sodium in API, Pharmaceutical Formulations and Human Serum by Programming the Detector, 11th International and 23rd National Chemistry Conference 15-17 Oct, 2012, Peshawar Pg 152.
11. M. Saeed Arayne, Najma Sultana and **Saeeda Nadir Ali**, Spectrophotometric determination of three macrolides through charge transfer complexes with chloranilic acid, Forth International Chemistry Conference 19th-21st Nov 2011, Riyadh, Saudi Arabia OA24 Pg 42.
12. Najma Sultana, M. Saeed Arayne and **Saeeda Nadir Ali**, LC determination of two NSAIDs with statin and calcium channel blocker from API, pharmaceutical formulation and human serum, Forth International Chemistry Conference 19th-21st Nov 2011, Riyadh, Saudi Arabia OA26 Pg 44.
13. M. Saeed Arayne, Najma Sultana, Arman Tabassum, **Saeeda Nadir Ali** and Safila Naveed, Simultaneous liquid chromatographic determination of rosuvastatin, lisinopril, captopril and enalapril in API, pharmaceutical formulation and human serum, Forth International Chemistry Conference 19th-21st Nov 2011, Riyadh, Saudi Arabia POA30 Pg 212.
14. **Saeeda Nadir Ali**, Najma Sultana and M. Saeed Arayne, Synthesis and structural studies of Gabapentin-2,3-dichloro-5,6-dicyano-1,4-benzoquinone and tetracyanoethylene charge transfer complexes, Fourth Saudi Science Conference 21st-24th March 2010, Taibah International Chemistry Conference Al-Madinah Al-Munawwarah, Saudi Arabia P-ORG-32 Pg 63.
15. **Saeeda Nadir Ali**, Najma Sultana and M. Saeed Arayne, "Synthesis and structural studies of Gabapentin-2,3-dichloro-5,6-dicyano-1,4-benzoquinone, tetracyanoethylene and ninhydrin charge transfer complexes", 5th International Symposium on Biotechnology, organized by Institute of Biotechnology and Genetic Engineering (IBGE), University of Sindh, Jamshoro, Pakistan on October 4-7th, 2009.

O Training, Workshops and Seminars Attended

1. Attended one-days training session on **Revamped QA Framework: Collaborative Pathways to Sustainable Development Goals** organized by QEC, NEDUET on 5th June 2024.
2. Attended one-days training session on **Awareness about University-wide Policies/Systems** organized by QEC, NEDUET on 20th February 2024.
3. Attended training on "**Final Year Designed Project**" organized by QEC, NED University of Engineering and Technology, Karachi on October 26th, 2021.
4. Attended training on development of **Self-Assessment Report (PhD Programme)** organized by QEC, NED University of Engineering and Technology, Karachi on October 14th, 2021.
5. Attended training on "**Learning Management System (LMS)**" organized by IT Department, NED University of Engineering and Technology, Karachi in March 2020.
6. Attended one-day training on "**Harassment Rules and Prevention**" organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 25th November 2019.
7. Attended one-day training on "**FBR Procedures for Income Tax>Returns Filing**" organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 8th November 2019.

8. Attended one-day training on “**Directing and Managing Research**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 30th April 2019.
9. Attended one-day training on “**Quality Assurance at Higher Education Institutes**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 26th February 2019.
10. Attended two-day webinar on “**New Year Breakthrough**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi during 5-6th January 2019.
11. Attended one-day training on “**Web of Knowledge**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 4th January 2019.
12. Attended one-day training on “**Intellectual Property Understanding**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 23rd November 2018.
13. Attended two-days training on “**Leadership & Management Skills**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi during 16-19th November, 2018
14. Attended two--days training on “**OBE Based Course Design Workshop**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi during 18-19th October, 2018.
15. Attended one-day training on “**Examination paper Based on OBE System**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 30th July 2018.
16. Attended one-day training on “**Awareness of Procurement rules & Process within University**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 13th July 2018.
17. Attended one-day training on “**Intellectual Property Rights and Protection**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 10th July 2018.
18. Attended four-days training on “**Entrepreneurship**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 24th-27th October, 2017.
19. Participated in one-day International Workshop on **Leadership Development for Engineers and Technical Managers** organized by Construction Engineering and Management Group (CEMG) in collaboration with NED Alumni Association of Washington DC, Project Management Institute KPC, Project Management Society of NED and Soft Skills Development Institute International (SSDII), USA on September 19th, 2015.
20. Attended **2nd Annual Meeting of Science Editors**, held in Metropolitan Palace, Dubai UAE on August 13-14th, 2015 organized by Asian Council of Science Editors.
21. Attended one day workshop on “**Developing Industry Driven Technologies**” held at Arts Auditorium, Karachi, on January 6th, 2015 jointly organized by ORIC, University of Karachi in collaboration with Pakistan Scientific and Technological Information Center, Institute of Research Promotion and ShafiReso Chemicals.
22. Attended four days training programme “**Effective Teachers Practices**” organized by Quality Enhancement Cell, NED University of Engineering and Technology, Karachi on 22-24th, and 26th December, 2014.
23. Attended two days workshop on *National Workshop on Chemical and Biological Laboratory Safety* September 23-24, 2014) organized by HEJ-Research Institute of Chemistry, International Center for Chemical and Biological Sciences (ICCBS), University of Karachi in collaboration with National Academy of Young Scientists and American Society for Microbiology.
24. Attended three days workshop on *Analytical Techniques* September 9-11, 2014, organized by Department of Chemistry, Jinnah University for Women in collaboration with University of Karachi.
25. Attended one day seminar on *Property Rights, Guide Lines for Researchers and Industry* jointly organized by Pakistan Scientific and Technological Information Centre (PASTIC), Pakistan Science Foundation (PSF) and Faculty of Civil Engineering, NED University of Engineering and Technology, Karachi on May 28th, 2014.
26. Attended three days summit meeting on *Vistas in Structural Chemistry*, held between April 28th-30th, 2014 at the International Center for Chemical and Biological Sciences, University of Karachi.
27. Attended one day seminar on *Nanotechnology-The Power of Small* held on September 21st 2013, jointly organized by Department of Chemistry, University of Karachi, Pakistan and Community of Young Chemists.
28. Attended two days workshop on *Atmospheric Chemistry What’s at Risk* held at Department of Chemistry, University of Karachi on 28th and 29th December, 2012.
29. Attended two days *PAK-US Workshop on Application of Nanotechnology* held on 29th-30th May 2012, organized by International Center for Chemical and Biological Science, HEJ Research Institute of Chemistry, University of Karachi, Pakistan.
30. Certificate of participation in *Regional Workshop on Chemical Laboratory Safety and Security* conducted on 5th-6th June, 2012, organized by: International Center for Chemical and Biological Science, HEJ Research Institute of Chemistry, University of Karachi, Pakistan.

31. Attended three days workshop on ***First College Teachers Workshop on Chemistry Curriculum*** held on 24th-26th January 2012 at Department of Chemistry, University of Karachi.
32. Certificate of participation for attending workshop on ***Nanotechnology: Application, Fabrication and Characterization Techniques***, conducted by Department of Physics and Applied Physics, FUUAST Karachi and Radiance Foundation Karachi on 12th December 2011.
33. Attended workshop on ***How to Write a Winning Scientific Proposal*** held on 24th September 2011, organized by L.E.J. National Science Information Center under Virtual Education Project Pakistan (VEPP) and Higher Education Commission, Pakistan.
34. Participated in ***9th International & 21st National Chemistry Conference*** held on 14th-16th March 2011, jointly organized by Department of Chemistry, University of Karachi & H.E.J Research Institute of Chemistry and The Chemical Society of Pakistan.
35. Attended ***National Workshop on Chemistry Laboratory Safety and Security*** in Universities of Pakistan jointly organized by Higher Education Commission and International Centre of Chemical and Biological Sciences, University of Karachi on 22nd-23rd February 2011.
36. Attended seminar on ***Industrial Awareness to Young Chemists*** conducted by Chemphilic at Department of Chemistry, University of Karachi, held on 25th July 2009.
37. Participated in the ***1st international Seminar on Laboratory Biosafety***, held on 21st March 2009, jointly organized by Pakistan Biological Safety Association and Aga Khan University Hospital.
38. Participated in ***Workshop on Nutraceutical food***, jointly organized by Higher Education Commission, British Council and International Centre of Chemical and Biological Sciences, University of Karachi on 21st January 2009.
39. Attended ***Workshop on Laboratory Safety*** organized by Department of Chemistry, University of Karachi, on 17th Jan 2009.
40. Attended workshop on ***Nano Science & Catalysis*** jointly organized by National Centre for Physics & The Chemical Society of Pakistan, at Quaid-i-Azam University Islamabad, held on 24th-25th March 2008.
41. Attended two days Workshop on ***The Role of Chemistry in Industry*** organized by Department of Chemistry, University of Karachi in collaboration with National Core Group of Chemistry, held on 21st and 22nd November 2007.

End of file (Updated on June 2024)