

PROF. DR. AMBER R. SOLANGI

PERSONAL

Pakistani, Female, Single, Born on 15/02/1974; Good in English, Urdu and Sindhi; Computer literate; Interest in current affairs. Enjoy reading, traveling and social work.

EDUCATIONAL QUALIFICATION

- **Post Doctorate (Electroanalytical Chemistry).** School of Chemistry, Monash University, Melbourne, **Australia**, Feb-2009-Jan-2010. Project title: “Electrochemical and NMR based measurement of diffusion coefficient of $(\text{SeCN})^-/(\text{SeCN})_3$ redox couple in different Ionic Liquids”.
- **Ph.D (Analytical Chemistry).** National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan – **Sep -2007**. Dissertation: “Development of new Analytical methods for the determination of 4-Quinolone & Cephalosporin antibiotics using Voltammetry and Capillary Electrophoresis”.
- **M.Phil (Electroanalytical chemistry).** National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan. **First Class**, (G.P.A- 4) **2002**. Thesis: “Indigenous fabrication of new Ion Selective Electrodes & their applications.
- **M.Sc (Physical Chemistry).** Quaid-e-Azam University, Islamabad – Pakistan, **First Class** (62%), **1998**. Thesis: “Determination of pKa values of different dyes by Potentiometric and Spectrophotometric Methods”.
- **B.Sc (Chemistry).** M.A. Kazi Institute of Chemistry, University of Sindh, Jamshoro. Pakistan , **First Class** (77%), **1995**.
- **Inter (Biology group).** Government Degree College, Shahdadpur, Pakistan, **First Class** (65%), **1991**.
- **Matric (Science).** Government Girls High School, Shahdadpur, Pakistan, **First Class** (75%), **1989**.

JOB EXPERIENCE

- **Professor** at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro – Pakistan, since **22 Feb 2017 to date**.
- **Associate Professor** at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro – Pakistan, since **26th March 2012 to 22 Feb 2017**.
- **Post Doc Fellow** at School of Chemistry, Monash University, Melbourne, Australia, since **Feb 2009 to Jan 2010**.
- **Assistant Professor** at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro – Pakistan, since **March 2008 to March 2012**.
- **Lecturer** at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro – Pakistan, since **13th November 2000 till March 2008**.
- **Research Associate/officer** at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro – Pakistan, since **10th October 1999 till 12th November 2000**.

ADDITIONAL DUTIES BESIDE TEACHING & RESEARCH

- In-Charge Students Affairs
- In-Charge Chemical Store
- Associate Editor of Pakistan Journal of Analytical & Environmental Chemistry, (A biannual Journal).

ADMINISTRATIVE RESPONSIBILITY

- In-charge NCEAC Hostels (Girls & Boys) since 2011.
- In-Charge Admissions (for M.Phil – Ph.D) since 2011.
- Member Admission/Examination Committee.
- Member Tender/Bid Committee.
- Member Administrative/Executive (Policy Decision) Committee.
- Member Board of Studies, NCEAC.
- Member Board of Faculty, University of Sindh, Jamshoro.
- Member Departmental Promotion Committee.
- Member Board of Studies, Institute of Chemistry, Shah Abdul latif University, Khairpur

- Member Admission/Examination Committee Govt.College University Hyderabad
- Member Selection Board NCEPC, Peshawar

RESEARCH AREAS

- Adsorption/removal studies of various environmental pollutants for the treatment of contaminated water.
- Synthesis of nano materials/nano composites and their applications as sensors and biocatalysts.
- Separation and determination of drugs/organic compounds using capillary electrophoresis.

STUDENTS SUPERVISED (AS HEC APPROVED SUPERVISOR)

S.No.	Student's name	Research Topic	Degree	Role
1	S. Sara Hassan	Analgesic derived Au nano particles & their applications in sensors	Ph.D Completed- 2013	Co-Supervisor
2	Yasmeen Junejo	Antibiotic based synthesis of Ag nano particles& their use in catalysis	Ph.D Completed- 2014	Co-Supervisor
3	M. Yahya Gilal	Voltammetric determination of pharmaceutical preparations containing guanidine functional groups	M.Phil Completed-2015	Co-Supervisor
4	Sidra Amin	Electrochemical determination of selected analgesic drugs of environmental concern using solid state electrodes.	M.Phil Completed- 2015	Co-Supervisor
5	Umair Ahmed	Use of new materials for the removal of Phthalates by solid phase extraction	Ph.D Completed 2015	Supervisor
6	Anita Abbas	Synthesis of modified calix[n]arene derivatives and their application in electrochemistry	M.Phil Completed 2015	Supervisor
7	Paras Azadi	Adsorptive Removal of Thiophenic Compounds from Hydrocarbon Fuel	M.Phil Completed- 2015	Co-Supervisor
8	Saba Waris	Microbial Production of Conjugated Linolenic Acid By Linolenic Acid	M.Phil Completed-2015	Co-Supervisor
9	Safia Sanam	Drug Based Synthesis of Precious Metal Nanoparticles and Their Application for Electrochemical Sensoring.	M.Phil Completed-2015	Co-Supervisor
10	Erum Akhund	Synthesis and Characterization of Nickel Nano Particles and Their Applications	M.Phil Completed-2016	Supervisor

11	Amna Khatoon	Development of Capillary Electrophoretic Method for the Determination of Skin Whitening Agents in Cosmetic Products	M.Phil Completed-2016	Supervisor
12	Shabana Gul	Phytochemical and Antioxidant activity of <i>Ocimum basilicum</i> (Sweet basil)	M.Phil Completed-2016	Co-Supervisor
13	Ruqaya Sheikh	Preparation and characterization of Functional Metal-Nanoparticles and Their Application	M.Phil Completed-2016	Co-Supervisor
14	Sana Ahmed	Development of Electro-analytical method for the detection of selected Triazine herbicides.	M.Phil Completed-2017	Co-Supervisor
15	Raja Karim	Determination of Polycyclic Aromatic Hydrocarbons in Vegetables Grown in Sindh, Pakistan	M.Phil Completed-2017	Supervisor
16	Tasawar Ali	Electrochemical determination of Various Drugs using stationary and flow cell techniques	Ph.D Completed-2018	Co-Supervisor
17	Almas Fatima	Determination of selected Phenolic compounds from natural and biological samples using capillary electrophoresis and HPLC	Ph.D Completed-2018	Supervisor
18	Aiusha Memon	Synthesis of Layered Double Hydroxide Materials for the Removal of Perchlorate Ions from Aqueous System	M.Phil Completed-2018	Supervisor
19	Indra Khatoon	Development of New Analytical Method for the Determination of Selected Anticancer Drugs	M.Phil Completed-2018	Supervisor
20	Sanaullah	Nutritional Profiling of Non-Leafy Vegetables Cultivated in Sindh, Pakistan	M.Phil Completed-2018	Supervisor
21	Bindia Junejo	Study of the Physiochemical Behavior of Zeolite for the Removal of Selected Dyes from Aqueous Medium	M.Phil Completed-2019	Supervisor
22	Tania Ghumro	Method Development for the Treatment of Formaldehyde Contaminated water	M.Phil Completed-2019	Supervisor
23	Mehwish Abbasi	Antibiotic Assisted Formation of Metal Nanoparticles and their Applications in Sensors	M.Phil Completed-2019	Co-Supervisor
24	Dilawar Hassan	Effect of size on potential applications of metal oxide nanoparticles	M.Phil Completed-2020	Supervisor
25	Aysha Sani Memon	Green Synthesis of hematite (α -Fe ₂ O ₃) Nanoparticles and their Application	M.Phil Completed-2020	Supervisor
26	Saba Memon	Synthesis of Cobalt oxide NPs from plant extracts and their applications	M.Phil Completed-2021	Supervisor
27	Sidra Ameen	Synthesis of metal oxide/sulphide based nano composite nanostructures, their characterization and applications	Ph.D Completed-2021	Supervisor
28	Shakeel Bhutto	Comparative Application Study of Metal Oxide Nanoparticles Synthesized by Chemical and Green Method	M.Phil Completed-2021	Supervisor

29	Jamil Ahmed	Synthesis of Copper Oxide (CuO) nanoparticles using different hydroxyl sources and their environmental application	M.Phil Completed-2021	Supervisor
30	Nadir Ali	Ionic liquid-assisted synthesis of Cobalt oxide (Co ₃ O ₄) nanostructures and their environmental applications	M.Phil Completed-2021	Supervisor
31	Attia Bhatti	Plant Mediated Synthesis of NiFe ₂ O ₄ Nanoparticles and their Applications	M.Phil Completed-2021	Supervisor
32	Saira Talpur	Development of Dispersive Liquid-Liquid Microextraction method for preconcentration of selected pharmaceutical compounds	M.Phil Completed-2021	Co-Supervisor
33	Nida Shams	Synthesis of ion carriers for the determination and separation of toxic metals	Ph.D Completed-2021	Supervisor
34	Nadeem Qambrani	Synthesis of Metal Oxide Nanocomposites and Their Applications	M.Phil Completed-2022	Supervisor
35	Mehrunissa	Synthesis of Functionalized Carbon Material for Catalytic Degradation of selected Organic Contaminants	M.Phil Completed-2022	Co-supervisor
36	Hadi Buksh	Synthesis and Characterization of Metal Oxide Nanoparticles and their Application for the Detection of Pesticides, Drugs and Heavy Metals	Ph.D Completed-2022	Supervisor
37	Raja Kareem	Effect of water/rock/soil interaction on the quality of ground-water: A geochemical case study of the ground-water of selected areas of Sindh	Ph.D Completed-2023	Supervisor
38	Aamna Khatoon	Bio-synthesis of silver nano particles through vegetable extract and their applications	Ph.D Completed-2024	Supervisor
39	Mir Mehran Khan	Layered double hydroxide based nanostructure modified electrode for environmental application	M.Phil Completed-2024	Supervisor
40	Shuaib –Ul-Zaman	Synthesis of Copper Oxide/Nickel Oxide (CuO/NiO) nano-composite and its Applications	M.Phil Completed-2024	Supervisor

STUDENTS UNDER SUPERVISION

S.No	Student's name	Research Topic	Degree	Role
1	Bindia Junejo	Synthesis, Characterization, Agricultural and Pharmacological applications of metal/metal	Ph.D	Supervisor

		oxide nano-particles		
2	Tania Ghumro	Evaluation of functional compounds from various propolis of Pakistan	Ph.D	Supervisor
4	Sehrish Qazi	Synthesis of Graphene Derivatives/Composites and Their Applications	Ph.D	Co-supervisor
5	Jamil Ahmed	Fabrication of Symbiotic Graphene Oxide/Metal Oxide Nanocomposites and Their Electrochemical Applications	Ph.D	Supervisor
6	Nadir Hussain	Synthesis of Hetero-structured Nanocomposites for Energy Storage and Sensing Applications	Ph.D	Supervisor
7	Saba Ali	Controlled Synthesis of Functionalized Metal Nanoclusters and their utilization as Sensor for Monitoring of Environmental Pollutants	Ph.D	Supervisor
8	Ali Hyder	Synthesis of Calix[n]arene Based Functionalized Nanocomposite Materials and Their Applications	Ph.D	Co-supervisor

FUNDED PROJECTS COMPLETED

S.No.	Title	Budget	Funding Agency/ awarded year	Role/status
1	Green Nanotechnology: A Safe Approach for Environmental Remediation	Rs. 2.3 million	Sindh HEC 2021	Co-I Completed-2023
2	Exploitation of Role of Capillary Electrophoresis as a Characterization Tool for Nanomaterials	Rs. 1.5 million	HEC, Islamabad 2019	P.I Completed-2022
3	Synthesis of NiO nanostructures assisted with the combination of ionic liquids and cationic and anionic surfactants and their potential use in the development of sensitive electrochemical pesticide sensors for the monitoring of pesticides from different vegetables grown in Pakistan.	Rs. 4.23 million	HEC, Islamabad 2017	P.I Completed-2021
4	Ionic Liquid Modified Sorbents for the removal of Phthalates	0.533 millions	NCEAC 2013	P.I Completed-2015
5	Synthesis and characterization of drug-derived gold nanoparticles and their applications in sensors	5.1 millions	HEC, Islamabad 2010	Co-I Completed-2014

HEC FUNDED PROJECT ONGOING/ APPLIED

S.No	Title	Budget (millions)	Funding Agency/year	Role/status
1	Bio-Sensing Platform Based on nanoparticles for waterborne bacterial pathogens	Rs. 2.078	HEC, Islamabad 2019	Co-PI
2	Potassium Nano-Fertilizer: Cultivating a New Era for Sustainable Agriculture under Changing Climate	Rs. 2.31	Sindh HEC 2023	P.I
3	The Design and Reaction Mechanisms of Efficient Synergistic Catalytic Removal of NO _x and VOCs	Rs. 8.02	PSF-NCFC China 2023	P.I

HEC FUNDED STUDENT UNDER SUPERVISION ON INDIGENIOUS SCHOLARSHIP

S.No	Student's name	Research Topic	Degree	Role
1	Jamil Ahmed	Fabrication of Symbiotic Graphene Oxide/Metal Oxide Nanocomposites and Their Electrochemical Applications	Ph.D	Supervisor
2	Ali Hyder	Synthesis of Calix[n]arene Based Functionalized Nanocomposite Materials and Their Applications	Ph.D	Co-supervisor

HEC FUNDED STUDENT SUPERVISED ON INDIGENIOUS SCHOLARSHIP

S.No	Student's name	Research Topic	Degree	Role
1	Almas Fatima	Determination of selected Phenolic compounds from natural and biological samples using capillary electrophoresis and HPLC	Ph.D Completed -2018	Supervisor
2	Sidra Ameen	Synthesis of metal oxide/sulphide based nano composite nanostructures, their characterization and applications	Ph.D Completed 2021	Supervisor

Total Publications

(https://scholar.google.com/citations?hl=en&user=zY8_aTYAAAAJ&view_op=list_works&sortby=pubdate)

1. Jamil A. Buledi, Madeeha Batool, Sidra Ameen, **Amber R. Solangi**, Arfana Mallah, Ismail Murat Palabiyik, Syed Tufail H. Sherazi, "Polyethylene glycol functionalized CuO/rGO nanocomposite based electrochemical sensor for ultra-sensitive electro-oxidation of bromoxynil in vegetables", *Chemical Papers* (2023) DOI : 10.1007/s11696-023-03012-x. **(IF: 2.2)**
2. Ali, Hyder, Akbar Ali, Jamil Ahmed Buledi, Ayaz Ali Memon, **Amber R. Solangi**, Jun Yang, and Khalid Hussain Thebo. "MXene-based nanocomposites: emerging candidates for the removal of antibiotics, dyes, and heavy metal ions." *Materials Chemistry Frontiers* (2023). **(IF: 7.0)**
3. Hyder, Ali, Jamil Ahmed Buledi, Roomia Memon, Anjum Qureshi, Javed H. Niazi, **Amber R. Solangi**, Shahabuddin Memon, Ayaz Ali Memon, and Khalid Hussain Thebo. "Modified electrochemical sensor via supramolecular structural functionalized graphene oxide for ultra-sensitive detection of gallic acid." *Diamond and Related Materials* (2023): 110357. **(IF: 4.1)**
4. Nawaz, M., Shaikh, H., Buledi, J.A. **Solangi, A.R.** *et al.* Fabrication of ZnO-doped reduce graphene oxide-based electrochemical sensor for the determination of 2,4,6-trichlorophenol from aqueous environment. *Carbon Lett.* (2023). <https://doi.org/10.1007/s42823-023-00562-8> **(IF: 4.5)**
5. Buledi, J.A., Hyder, A., Khand, N.H., Memon, S.A., Batool, M., **Solangi, A.R.** Potential Mitigation of Dyes Through Mxene Composites. In: Rizwan, K., Khan, A., Ahmed Asiri, A.M. (eds) Handbook of Functionalized Nanostructured MXenes. Smart Nanomaterials Technology. Springer, Singapore. (2023). https://doi.org/10.1007/978-981-99-2038-9_17
6. Jamil A. Buledi & **Amber R. Solangi** Low-temperature aqueous growth of SDS-stabilized CuO electrocatalyst for ranitidine monitoring in pharmaceuticals. *Chem. Papers.* (2023). <https://doi.org/10.1007/s11696-023-02946-6> **(IF: 2.2)**
7. Bindia Junejo, Qamar A. Solangi, Ali Salman B. Thani, Ismail Murat Palabiyik, Tania Ghumro, adia Bano, **Amber R. Solangi***, Syed Iqleem H. Taqvi, "Physical properties and Pharmacological applications of Co₃O₄, CuO, NiO and ZnO Nanoparticles" *World Journal of Microbiology and Biotechnology*: 2023 **(IF: 4.1)**
8. Madeeha Batool, Zartashia Afzal, Iqra Saleem Khan & **Amber R. Solangi** (2023): Exploring the Mechanism of Anionic Chemosensing by Imidazoles: A Review, *Critical Reviews in Analytical Chemistry*, DOI: 10.1080/10408347.2023.2210680 **(IF: 5.6)**
9. Shuaibul-Zaman Shah, Iqleem H. Taqvi, Sidra Ameen, Arfana Mallah, Jamil A. Buledi, Nadir H. Khand and **Amber R. Solangi**, "Plant based fabrication of CuO/NiO nanocomposite: a green approach for low-level quantification of vanillin in food samples" *Pure and Applied Chemistry*, 2023. <https://doi.org/10.1515/pac-2023-0106> **(IF: 1.8)**

10. Bindia Junejo, Mujde Eryilmaz, Suna Sibel Rizvanoglu, Ismail Murat Palabiyik, Tania Ghumro, Arfana Mallah, **Amber R. Solangi**, Syed Iqleem Hyder, Hassan Karimi Maleh and Elena Niculina Dragoi, "Pharmacological assessment of Co₃O₄, CuO, NiO and ZnO nanoparticles via antibacterial, anti-biofilm and anti-quorum sensing activities", *Water Science & Technology*, Vol 00 No 0, 1 doi: 10.2166/wst.2023.150 (IF: 2.7)
11. Buledi, Jamil A., Huma Shaikh, **Amber R. Solangi**, Arfana Mallah, Zia-ul-Hassan Shah, Mir Mehran Khan, Afsaneh L. Sanati et al. "Synthesis of NiO-Doped ZnO Nanoparticle-Decorated Reduced Graphene Oxide Nanohybrid for Highly Sensitive and Selective Electrochemical Sensing of Bisphenol A in Aqueous Samples." *Industrial & Engineering Chemistry Research* 62, no. 11 (2023): 4754-4764. (IF: 4.2)
12. Raja Karim Bux, Madeeha Batool, Syed Mubashir Shah, **Amber R. Solangi***, Asghar Ali Shaikh, Syed Iqleem Haider, Zia-ul-Hassan Shah, "Mapping the Spatial distribution of Soil heavy metals pollution by Principal Component Analysis and Cluster Analyses", *Water Air Soil Pollut* (2023) 234:330. <https://doi.org/10.1007/s11270-023-06361-1> (IF: 2.9)
13. Jamil A Buledi, **Amber R Solangi**, Arfana Mallah, Syeda Sara Hassan, Syed Tufail H Sherazi, Muhammad Raza Shah, "Electrocatalytic evaluation of β -SnWO₄/rGO nanostructure for low-level urea detection", *J Mater Sci: Mater Electron* 34, 618 (2023). (IF: 2.8)
14. Jamil A Buledi, **Amber R Solangi**, Arfana Mallah, Zia-ul-Hassan Shah, Syed Tufail Sherazi, Muhammad Raza Shah, Ali Hyder, Saba Ali, "[Electrochemical monitoring of isoproturon herbicide using NiO/V₂O₅/rGO/GCE](#)", *J. Food Measurement and Characterization*, (2023). <https://doi.org/10.1007/s11694-022-01733-3>. (IF : 3.4)
15. Jamil A. Buledi, **Amber R. Solangi***, Arfana Mallah, Syeda Sara Hassan, Sidra Ameen, Ceren Karaman, Hassan Karimi-Maleh, "[A Reusable Nickel Oxide Reduced Graphene Oxide Modified Platinum Electrode for the Detection of Linezolid Drug](#)", *Industrial & Engineering Chemistry Research*, January 11, 2023 (IF: 4.2) DOI: 10.1021/acs.iecr.2c03334
16. A. Khatoon, N. H. Khand, A. Mallah, **Amber R. Solangi**, S. Q. Memon, A. F. Memon, C. Karaman, F. Karimi, and O. Karaman, "A Fast and Reliable Electrophoretic Method for Size-Based Characterization of Silver Nanoparticles," *Industrial & Engineering Chemistry Research*, November 3, 2022. (IF: 4.2) DOI: 10.1021/acs.iecr.2c03317
17. A. N. Soomro, H. Shaikh, M. I. Malik, J. A. Buledi, S. Qazi, and **A.R Solangi**, "Fluorene intercalated graphene oxide based CoQ10 imprinted polymer composite as a selective platform for electrochemical sensing of CoQ10," *RSC Advances*, vol. 12, pp. 31639-31649, 2022. (IF : 3.2)
18. A. F. Memon, S. Ameen, N. H. Khand, N. Qambrani, J. A. Buledi, B. Junejo, **A. R. Solangi**, S. I. H. Taqvi, E.-N. Dragoi, and N. Zare, "Electrochemical monitoring of bisphenol-s through nanostructured tin oxide/Nafion/GCE: A solution to environmental pollution," *Chemosphere*, p. 135170, 2022. (IF : 8.8)
19. M. Batool, Z. Afzal, H. M. Junaid, **A. R. Solangi**, and A. Hassan, "Sulfonamides as Optical Chemosensors," *Critical Reviews in Analytical Chemistry*, pp. 1-28, 2022. (IF: 6.5).

20. M. Nawaz, H. Shaikh, J. A. Buledi, **A. R. Solangi**, R. Raza, and B. Maher, "Microwave-assisted synthesis of cadmium/reduced graphene oxide composite: an operative platform for highly specific electrochemical determination of bisphenol-A," *Journal of Applied Electrochemistry*, pp. 1-14, 2022. (IF : 2.9)
21. J. A. Buledi, **A. R. Solangi**, A. Hyder, N. H. Khand, S. A. Memon, A. Mallah, N. Mahar, E. N. Dragoi, P. Show, and M. Behzadpour, "Selective oxidation of amaranth dye in soft drinks through tin oxide decorated reduced graphene oxide nanocomposite based electrochemical sensor," *Food and Chemical Toxicology*, vol. 165, p. 113177, 2022. (IF: 5.572)
22. J. A. Buledi, **A. R. Solangi**, A. Hyder, M. Batool, N. Mahar, A. Mallah, H. Karimi-Maleh, O. Karaman, C. Karaman, and M. Ghalkhani, "Fabrication of sensor based on polyvinyl alcohol functionalized tungsten oxide/reduced graphene oxide nanocomposite for electrochemical monitoring of 4-aminophenol," *Environmental Research*, vol. 212, p. 113372, 2022. (IF: 8.431)
23. M. W. Ashraf, S. I. Haider, **A. R. Solangi**, and A. F. Memon, "Toxicity of tellurium and its compounds," *Physical Sciences Reviews*, 2022. (IF : 1.26)
24. Amna Khatoon, Junaid Ali Syed, Jamil A. Buledi, Sadia Shakeel, Arfana Mallah, **Amber R. Solangi***, Sirajuddin, Syed Tufail H. Sherazi, Muhammad Raza Shah, "Bio-green fabrication of bell pepper mediated silver nanoparticles: An efficient material for electrochemical sensing of arbutin in cosmetics" *Journal of the Iranian Chemical Society*- 2022 <https://doi.org/10.1007/s13738-022-02558-z>. (IF : 2.4)
25. Nadeem Qambrani, Jamil A. Buledi, Nadir H. Khand, **Amber R. Solangi***, Sidra Ameen, Nida S. Jalbani, Amna Khatoon, Mohammad Ali Taher, F.H. Moghadam, Moein Shojaei, Fatemeh Karimi, "Facile Synthesis of NiO/ZnO nanocomposite as an effective platform for electrochemical determination of carbamazepine", *Chemosphere*, Volume 303, Part 3, September 2022, 135270. (IF : 8.8)
26. Almas F. Memon, Sidra Ameen, Nadeem Qambrani, Jamil A. Buledi, Nadir H. Khand, **Amber R. Solangi***, Syed Iqleem H. Taqvi, Ceren Karaman, Fatemeh Karimi, Najmeh Zare, "An improved electrochemical sensor based on triton X-100 functionalized SnO₂ nanoparticles for ultrasensitive determination of cadmium" *Chemosphere*, 2022, (IF : 8.8)
27. Raja Karim, Syed Iqleem Haider, Madeeha Batool, **Amber R. Solangi***, Saima Q. Memon, Zia-ul-Hassan Shah, Omid Moradi, Yasser Vasseghian, Natural and anthropogenic origin of metallic contamination and health risk assessment: A hydro-geochemical study of Sehwan Sharif, Pakistan, *Chemosphere*, volume 300, August 2022, 134611 (IF : 8.8)
28. Taqvi, Syed Iqleem H., **Amber R. Solangi***, Jamil A. Buledi, Nadir H. Khand, Bindia Junejo, Almas F. Memon, Sidra Ameen et al. "Plant extract-based green fabrication of nickel ferrite (NiFe₂O₄) nanoparticles: An operative platform for non-enzymatic determination of pentachlorophenol." *Chemosphere* 294 (2022): 133760. (IF : 8.8)
29. Hyder, Ali, Jamil A. Buledi, Muhammad Nawaz, Dhani B. Rajpar, Yasin Orooji, Mehmet Lütfi Yola, Hassan Karimi-Maleh, Hongjun Lin, and **Amber R. Solangi***. "Identification of heavy metal ions from aqueous environment through gold, Silver and Copper Nanoparticles: An excellent colorimetric approach." *Environmental Research* 205 (2022): 112475. (IF: 8.431)

30. Bakhsh, Hadi, Ismail M. Palabiyik, Raj Kumar Oad, Nadeem Qambrani, Jamil A. Buledi, **Amber R. Solangi***, and Syed Tufail H. Sherazi. "SnO₂ Nanostructure based Electroanalytical Approach for Simultaneous Monitoring of Vitamin C and Vitamin B6 in Pharmaceuticals." *Journal of Electroanalytical Chemistry* (2022): 116181. (IF: 2.9)
31. Shams Jalbani, Nida, **Amber R. Solangi***, Shahabuddin Memon, Ranjhan Junejo, and Asif Ali Bhatti. "Surface coating of silica with amine functionalized calix [4] arene and its application in metal ion extraction." *Journal of Dispersion Science and Technology* (2022): 1-9. (IF: 2.057)
32. Raja Karim, Syed Iqleem Haider, Arfana Mallah, **Amber R. Solangi***, Omid Moradi, and Hassan Karimi-Maleh. "Spatial analysis and human health risk assessment of elements in ground water of District Hyderabad, Pakistan using ArcGIS and multivariate statistical analysis." *Environmental Research* (July 2022): [Volume 210](#), 112915 (IF: 8.431)
33. Jamil A., Buledi, Nasrullah Mahar, Arfana Mallah, **Amber R. Solangi***, Ismail M. Palabiyik, Nadeem Qambrani, Fatemeh Karimi, Yasser Vasseghian, and Hassan Karimi-Maleh. "Electrochemical quantification of mancozeb through tungsten oxide/reduced graphene oxide nanocomposite: A potential method for environmental remediation." *Food and Chemical Toxicology* 161 (2022): 112843. (IF: 5.572)
34. Raja Karim Bux, Syed Iqleem Haider, Madeeha Batool, **Amber R. Solangi***, Zia-ul-Hassan Shah, Hassan Karimi-Maleh, Fatih Sen, "Assessment of heavy metal contamination and its sources in urban soils of district Hyderabad, Pakistan using GIS and multivariate analysis", *International Journal of Environmental Science and Technology*, 2021 <https://doi.org/10.1007/s13762-021-03691-7> (IF: 3.1)
35. N. S. Jalbani, **A. R. Solangi***, S. Memon, R. Junejo, A. A. Bhatti, M. L. Yola, M. Tawalbeh, and H. Karimi-Maleh, "Synthesis of New Functionalized Calix [4] arene Modified Silica Resin for the Adsorption of Metal ions: Equilibrium, Thermodynamic and Kinetic Modeling Studies," *Journal of Molecular Liquids*, p. 116741, 2021, <https://doi.org/10.1016/j.molliq.2021.116741> (IF: 6.0)
36. J. A. Buledi, P. A. Buledi, M. Batool, **Amber. R. Solangi***, A. Mallah, S. Ameen, I. M. Palabiyik, and H. K. Maleh, "Exploring electrocatalytic proficiencies of CuO nanostructure for simultaneous determination of bentazone and mexacarbate pesticides," *Applied Nanoscience*, pp. 1-14, 2021. (IF: 3.869)
37. H. Bakhsh, J. A. Buledi, T. Ghumro, N. H. Khand, S. Ameen, **Amber. R. Solangi***, and S. T. H. Sherazi, "Sodium dodecyl sulfate stabilized NiO nanoseeds: a potential procedure for ultra-sensitive determination of bentazone in vegetables," *Journal of Materials Science: Materials in Electronics*, pp. 1-13, 2021. (IF : 2.8)
38. H. M. Junaid, **Amber. R. Solangi**, and M. Batool, "Carbon dots as naked eye sensors," *Analyst*, vol. 146, pp. 2463-2474, 2021. (IF: 4.2)
39. J. A. Buledi, **Amber. R. Solangi***, S. Q. Memon, S. I. Haider, S. Ameen, N. H. Khand, A. Bhatti, and N. Qambrani, "Nonenzymatic Electrochemical Detection of 2, 4, 6-Trichlorophenol Using CuO/Nafion/GCE: A Practical Sensor for Environmental Toxicants," *Langmuir*, vol. 37, pp. 3214-3222, 2021. (IF: 3.9)

40. J. A. Buledi, S. Ameen, S. A. Memon, A. Fatima, **Amber. R. Solangi***, A. Mallah, F. Karimi, S. Malakmohammadi, S. Agarwal, and V. K. Gupta, "An improved non-enzymatic electrochemical sensor amplified with CuO nanostructures for sensitive determination of uric acid," *Open Chemistry*, vol. 19, pp. 481-491, 2021. (IF: 1.952)
41. N. H. Khand, **Amber. R. Solangi***, S. Ameen, A. Fatima, J. A. Buledi, A. Mallah, S. Q. Memon, F. Sen, F. Karimi, and Y. Orooji, "A new electrochemical method for the detection of quercetin in onion, honey and green tea using Co₃O₄ modified GCE," *Journal of Food Measurement and Characterization*, pp. 1-11, 2021 (IF: 3.4)
42. H. Bakhsh, J. A. Buledi, N. H. Khand, B. Junejo, **Amber. R. Solangi***, A. Mallah, and S. T. H. Sherazi, "NiO nanostructures based functional none-enzymatic electrochemical sensor for ultrasensitive determination of endosulfan in vegetables," *Journal of Food Measurement and Characterization*, pp. 1-10, 2021. (IF: 3.4)
43. Nida Shams Jalbani, **Amber R Solangi***, Shahabuddin Memon, Ranjhan Junejo, Asif Ali Bhatti, Selective Removal of Hg²⁺ Ions from Water Using Calix[4]arene Modified Silica Resin: Equilibrium, Thermodynamics and Kinetic Modelling Studies', *J. Chem. Soc. Pak*, Volume 43, No. 04, August 2021. (IF: 0.698)
44. N. H. Khand, I. M. Palabiyik, J. A. Buledi, S. Ameen, A. F. Memon, T. Ghumro, and **Amber. R. Solangi***, "Functional Co₃O₄ nanostructure-based electrochemical sensor for direct determination of ascorbic acid in pharmaceutical samples," *Journal of Nanostructure in Chemistry*, pp. 1-14, 2021. (IF: 10.1)
45. J. A. Buledi, A. H. Pato, A. H. Kanhar, **Amber. R. Solangi***, M. Batool, S. Ameen, and I. M. Palabiyik, "Heterogeneous kinetics of CuO nanoflakes in simultaneous decolorization of Eosin Y and Rhodamine B in aqueous media," *Applied Nanoscience*, vol. 11, pp. 1241-1256, 2021). (IF: 3.869)
46. Sidra Amin, Aneela Tahira, **Amber R. Solangi***, Ayman Nafady, and Zafar Hussain Ibupoto, MoS_x-Co₃O₄ Nanocomposite for Selective Determination of Ascorbic Acid, *Journal of Nanoscience and Nanotechnology*, Vol. 21, 1-9, 2021. (IF: 1.13).
47. Dilawar Hassan, Hadi Bakhsh, Asif M. Khurram, Shakeel A. Bhutto, Nida S. Jalbani, Tania Ghumro, **Amber R. Solangi***, Fluorescent nanotechnology: an evolution in optical sensors, A Review: *Current Analytical Chemistry*, Vol. 17, page 1-10, 2021. (IF: 2.374)
48. Sagar Kumar, Jamil A. Buledi, Dadu Mal, **Amber R. Solangi***, Importance and Analytical Perspective of Green Synthetic Strategies of Copper, Zinc, and Titanium Oxide nanoparticles and their applications in Pathogens and Environmental Remediation, A Review: *Current Analytical Chemistry*, 2021, 17, 1-13. (IF 2.374)
49. Jamil A. Buledi, Zia-ul-Hassan Shah, Arfana Mallah, **Amber R. Solangi***, Current perspective and developments in electrochemical sensors modified with nanomaterials for environmental and pharmaceutical analysis, A Review: *Current Analytical Chemistry*, 2021, 17, 1-4. (IF 2.374)
50. Nida S. Jalbani, **Amber R. Solangi***, Muhammad Yar Khuhawar, Shahabuddin Memon, Ranjhan Junejo, And Ayaz Ali Memon, "Gas Chromatographic and Spectrophotometric Determination of

Diclofenac Sodium, Ibuprofen, and Mefenamic Acid in Urine and Blood Samples” *Turk J Pharm Sci.* 2020 Oct; 17(5): 465–473. doi: 10.4274/tjps.galenos.2019.42243 (IF: 1.80)

51. Hadi Baksh, Jamil A. Buledi , Nadir H. Khand , **Amber R. Solangi*** , Arfana Mallah , Syed Tufail Sherazi, M. Ishaque Abro, Ultra-selective determination of carbofuran by electrochemical sensor based on nickel oxide nanoparticles stabilized by ionic liquid, *MONATSHEFTE FUR CHEMIE – Chemical Monthly*, 2020 (IF: 1.8)
52. Saba Ali, Dilawar Hassan, Jamil Buledi, **Amber R. Solangi***, Saima Q. Memon, Ismail M. Palabiyik, Plant material protected cobalt oxide nanoparticles: Sensitive electrocatalyst for tramadol detection, *Microchemical Journal*, 159 (2020) 105480. (IF-5.304)
53. Safia S. Memon, Sirajuddin, Ayman Nafady, **Amber R. Solangi**, Muhammad R. Shah, Jan Nisar, Tufail H. Sherazi, Shahabuddin Memon, and Muhammad I. Abro, “Cephadrine-Capped Gold Nanoparticle Modified Glassy Carbon Electrode for Trace Level Sensing of Triphenyltin Hydroxide, *Journal of The Electrochemical Society*, 2020 167 137503. (IF: 3.9)
54. Sana Ahmed, Huma Shaikh, **Amber Solangi**, Jiri Barek, Sirajuddin, Adil Denizli, Muhammad H Agheem, A composite of imprinted polypyrrole beads and reduced graphene oxide for specific electrochemical sensing of atrazine in complex matrices, *MONATSHEFTE FUR CHEMIE – Chemical Monthly*, 2020 (IF: 1.8)
55. Amin, S.; Tahira, A.; **Solangi, A. R.**; Mazzaro, R.; Ibupoto, Z. H.; Fatima, A.; Vomiero, A., Functional Nickel Oxide Nanostructures for Ethanol Oxidation in Alkaline Media. *Electroanalysis*, 32 (5), 1052-1059, 2020. DOI: 10.1002/elan.201900662) (IF: 3.0)
56. Buledi, J.A., Ameen, S., Khand, N.H., **Solangi, A.R***, Taqvi, I.H., Agheem, M.H. and Wajdan, Z., CuO Nanostructures Based Electrochemical Sensor for Simultaneous Determination of Hydroquinone and Ascorbic Acid. *Electroanalysis*, 2020. DOI:10.1002/elan.202000083 (IF: 3.0)
57. Buledi, J.A., Amin, S., Haider, S.I., **Amber R. Solangi***, “A review on detection of heavy metals from aqueous media using nanomaterial-based sensors. A Review: *Environmental Science and Pollution Research*, 2020. DOI: 10.1007/s11356-020-07865-7 (IF: 5.8)
58. Amin, S.; **Solangi, A***; Hassan, D.; Hussain, N.; Buledi, J.; Bakhsh, H., Recent Trends in Development of Nanomaterials Based Green Analytical Methods for Environmental Remediation. A Review: *Current Analytical Chemistry* 2020. (IF 2.374)
59. Tania Ghumro, Bindia Junejo, Saima Q Memon, **Amber Solangi**, Removal of Formaldehyde from Aqueous Solution by Polymeric Resin, *Pakistan Journal of Analytical & Environmental Chemistry*, 161-168, 2019. (IF: 0.6)
60. Almas F. Memon, Ismail M. Palabiyik, **Amber R. Solangi,*** Saima Q. Memon & Arfana B. Mallah, Large Volume Sample Stacking (LVSS) in Capillary Electrophoresis (CE) with Response Surface Methodology (RSM) for the Determination of Phenolics in Food Samples, *Analytical Letters*, 52:18, 2853-2867, 2019. DOI: 10.1080/00032719.2019.1624371.(IF: 2.267)
61. Dilawar Hassan, Sidra Amin, **Amber R. Solangi*** and Saima Q. Memon. Book Chapter “Focused Ion Beam Tomography”, Ion Beam Techniques and Applications, Ishaq Ahmad and Tingkai Zhao, *IntechOpen*, November 13th 2019. DOI: 10.5772/intechopen.88937.

62. Amin, Sidra; Tahira, Aneela; **Solangi, Amber**; Beni, Valerio; Morante, Joan; Liu, Xianjie; Fahlman, Mats; Mazzaro, Raffaello; Vomiero, Alberto, Ibupoto, Zafar; “A sensitive enzyme-free lactic acid sensor based on NiO nanoparticle for practical applications”, *Analytical Methods* –vol. 11, 3578, 2019. (IF: 3.1)
63. Dilawar Hassan, Ali Talha Khalil, **Amber R. Solangi**, Ahmed El-Mallul, Zabta Khan Shinwari, Malik Maaza, Physiochemical properties and novel biological applications of *Callistemon viminalis* mediated α -Cr₂O₃ nanoparticles, *Appl. Organometallic Chem*, 33, e5041-2019. (IF: 3.9)
64. Amin Sidra; Tahira Aneela; **Solangi Amber**; Beni Valerio; Morante Joan; Liu Xianjie; Fahlman Mats; Mazzaro Raffaello; Ibupoto Zafar, Vomiero Alberto, A practical non-enzymatic urea sensor based on NiCo₂O₄ nanoneedles” *RSC Adv.*, 2019, 9, 14443–14451. (IF: 3.9)
65. Raja K. Bux, Bindia Junejo, **Amber R. Solangi***, Syed Iqleem Haider, Potential Risk assessment of selected polyaromatic hydrocarbons in vegetables grown in polluted and non polluted areas of Sindh, Pakistan. *Pak. J. Anal. Environ. Chem.* Vol 19 No.2 (2018) 128 – 134. (IF: 0.6)
66. Memon Almas F., **Solangi Amber R***, Memon Saima, Mallah Arfana, Memon Najma. Quantitative Separation of hesperidin, chrysin, epicatechin, epigallocatechin gallate, and morin using ionic liquid as a buffer additive in Capillary Electrophoresis. *Electrophoresis*, 2018, 39, 1606–1612. (IF: 2.9)
67. Safia S. Memon, Ayman Nafady, **Amber R. Solangi**, Abdullah M. Al-Enizi, Sirajuddin, Muhammad R. Shah, Syed T.H. Sherazi, Shabuddin Memon, Munazza Arain, Muhammad I. Abro, Manzoor I. Khattak, “Sensitive and selective aggregation based colorimetric sensing of Fe³⁺ via interaction with acetyl salicylic acid derived gold nanoparticles”, *Sensors and Actuators B*. 259 (2018) 1006–1012. (IF: 8.4)
68. Raj [Kumar](#), [Sirajuddin](#); **Amber R. Solangi**; Sidra [Amin](#), [Ali Muhammad](#); [Muhammad Ishaque](#); [Tayyaba](#) Shaikh; [Syed Muhammad Usman Ali](#); [AneelaTahira](#); [Zafar Hussain](#) Ibupoto., Synthesis of Sheet Like Morphology of NiO for Sensitive and Selective Determination of Urea, *Sensor Letters*, Volume 15, Number 10, October 2017, pp. 803-810(8). (IF: 0.694)
69. Tasawar A. Chandio, M. N Khan, **Amber R. Solangi**, Samia Siddiqui, Tayyaba Shaikh, “Quantitative Voltammetric Determination of Cephadrine in Biological Fluids and in Pharmaceutical Products”, *Sensor Letters* 15 (2), 2017, 142-148. (IF: 0.694)
70. Ruqaya Shaikh, Najma Memon, **Amber R Solangi**, Huma I Shaikh, M.Hassan Agheem, Syed Abid Ali, M. Raza Shah, Aftab Kandhro, “2, 3-Pyridine dicarboxylic acid functionalized gold nanoparticles: Insight into experimental conditions for Cr³⁺ sensing. *Spectrochimica Acta- Part A*: Volume 173, (15) 2017, 241–250. (IF: 4.4)
71. Almas F. Memon, **Amber R. Solangi***, Saima Memon, Arfana Mallah, Najma Memon, Ayaz A. Memon, “ Simultaneous determination of quercetin, rutin, naringin and naringenin in different fruits by capillary zone electrophoresis” *Food Analytical Methods*, 10 (1), 2017, 83-91 (IF: 2.9)
72. Sidra Amin, A. Hameed, Najma Memon, **Amber R. Solangi**, M. Aslam, Sirajuddin, M. Tahir Soomro, The efficacy of the Nafion[®] blended CTAB protected Au nanoparticles for the

electrochemical detection of tramadol in wastewater: A parametric investigation. *Journal of Environmental Chemical Engineering*-Volume 4, Issue 4, Part A, December 2016, Pages 3825–3834. (IF: 7.7)

73. Umair A. Qureshi, Ilkay Hilal Gubbuk, Mustafa Ersoz, **Amber R. Solangi**, Syed I.H. Taqvi, Saima Q. Memon, “A comparative study and evaluation of magnetic and non magnetic hydrogels towards mitigation of di butyl and di ethyl hexyl phthalate” *Journal of the Taiwan Institute of Chemical Engineers* - [Volume 59](#), February 2016, Pages 578–589. (IF: 5.7)
74. Umair A. Qureshi, Ilkay Hilal Gubbuk, Mustafa Ersoz, **Amber R. Solangi**, Syed I.H. Taqvi, Saima Q. Memon, “Preparation of Polyaniline Montmorillonite Clay Composites for the Removal of Diethyl Hexyl Phthalate From Aqueous Solutions” *Separation Science and Technology* –Vol 51, No.2. Pages 214-228, 2016. (IF: 2.799)
75. Almas F. Memon, **Amber R. Solangi***, Saima Memon, Arfana Mallah, Najma Memon, “MEKC method for naringenin from natural and biological samples” *Analytical Methods*, 2015, vol. 7. Page 4521-4527. DOI: 10.1039/C5AY00632E. (IF: 3.1)
76. Anita A. Memon, **Amber R. Solangi**, Shahabuddin Memon, Asif Ali Bhatti, Ashfaque Ali Bhatti “Highly Selective Determination of Perchlorate by a Calix[4]Arene Based Polymeric Membrane Electrode,” *Polycyclic Aromatic Compounds* 2015, page 1-14 . (IF: 2.195)
77. Sirajuddin, Syeda S Hassan, Ayman Nafady, **Amber R Solangi**, Muhammad S Kalhoro, Muhammad I Abro, Tufail.H.Sherazi, “Ultra-trace level electrochemical sensor for methylene blue dye based on nafion stabilized ibuprofen derived gold nanoparticles” *Sensors & Actuators: B. Chemical*, Vol. 208, 2015, Pages 320–326. (IF: 8.4)
78. Umair A. Qureshi, **Amber R. Solangi**, Saima Q. Memon, S. Iqleem H. Taqvi, “Utilization of Pine Nut Shell derived Carbon as an efficient alternate for the sequestration of Phthalates from aqueous system” *Arbian J. Chem*- Vol 7, issue 6, 2014, pages 1166 – 1177. (IF: 6)
79. Sidra Amin, Tahir Soomro, Najma memon, **Amber R. Solangi**, Tahira Qureshi “Disposable Screen Printed Graphite Electrode for the Direct Electrochemical Determination of Ibuprofen in Surface Water” *Environmental Nanotechnology, Monitoring & Management*. Vol. 1-2, 2014, pages 8 – 13. (IF: 0.86)
80. Asif A. Jamali, **Amber R. Solangi**, Najma Memon, S.M. Nizamani, “Current Scenario of pesticides practices among farmers for vegetable production: A case study in lower Sindh, Pakistan”, *Int. J. Dev. Sust.* Vol 3, No.3. 2014, page no. 493-504. (IF: 0.06)
81. Arfana Mallah, Saima Memon, **Amber R. Solangi**, Abdullah Khan, Muhammad. Y. Khuhawar, M. I. Bhangar,” Separation and Determination of Chromium (III), Chromium (VI), Gold (III) and Arsenic (V) by Capillary Zone Electrophoresis using 2-Acetylpyridine-4-phenylthiosemicarbazone as Complexing Reagent” *J. Chem. Soc. Pak.* - Vol. 36, No. 2. 2014, pages 255- 262. (IF: 0.698)
82. Syeda Sara Hassan, Yuping Liu, Sirajuddin, **Amber R. Solangi**, Alan M. Bond, Jie Zhang, “Phosphomolybdate-doped-poly(3,4-ethylenedioxythiophene) coated gold nanoparticles: Synthesis, characterization and electrocatalytic reduction of bromated”. *Anal. Chim. Acta*, [Volume 803](#), 25 November 2013, Pages 41–46. (IF: 6.2)

83. Arfana Mallah, **Amber R. Solangi**, Najma Memon, Rabia A. Memon, Muhammad. Y. Khuhawar, "Reverse Phase Liquid Chromatographic Separation and Determination of Ni (II), Cu (II), Pd (II) and Ag (I) Using 2-Pyrrolicarboxylaldehyde-4-Phenyl Semicarbazone as Complexing Reagent" **J. Chem.** Vol. **2013**, Article ID **184356**, 5 pages. <http://dx.doi.org/10.1155/2013/184356>. (IF: 3.0)
84. Mohammad W. Ashraf, Syed Iqleem H. Taqvi, **Amber R. Solangi** and Umair A. Qureshi, "Distribution and Risk Assessment of Polycyclic Aromatic Hydrocarbons in Vegetables Grown in Pakistan", **J. Chem.** Vol. **2013**, Article ID **873959**, 5 pages. DOI 10.1155/2013/873959. (IF: 3.0)
85. Syeda S. Hassan, Siraj uddin, **Amber R. Solangi**, Tasneem G. Kazi, Muhammad S. Kalhoro, Yasmeen Junejo, Zulfiqar A. Tagar, Nazar H. Kalwar, "Nafion stabilized ibuprofen-gold nanostructures modified screen printed electrode as arsenic(III) sensor", **J. Electroanal.Chem.** vol. 682 (2012) 77–82 (IF: 4.5)
86. Arfana Mallah, Saima Memon, **Amber R. Solangi**, Najma Memon, Kulsoom Abbassi and Muhammad Y. Khuhawar, "A Novel Micellar Electrokinetic Chromatographic Method for Separation of Metal-DDTC Complexes," **The Scientific World JOURNAL** (Anal. Chem), Volume **2012**, Article ID 743407, 8 pages.doi:10.1100/2012/743407).
87. Najma Memon, Saima Memon, **Amber R. Solangi**, Rubina Soomro and Rabel Soomro "Single-Channel Flow Injection Spectrophotometric Determination of Nickel Using Furildioxime in Micellar Solution," **The Scientific World JOURNAL** (Anal. Chem), Volume **2012**, Article ID 418047, 5 pages doi:10.1100/2012/418047.
88. Najma Memon, Huma I. Shaikh and **Amber R. Solangi**, "Selectivity of Brij-35® in Micellar Liquid Chromatographic Separation of Positional Isomers," **Chromatography Research International**, Volume 2012 pp 1-6 doi:10.1155/2012/458153. (IF: 1.8)
89. Umair A. Qureshi, **Amber R. Solangi**, Saima Q. Memon, S. Iqleem H. Taqvi, Najma Memon, "Ionic Liquid Modified Resin for the Adsorptive Removal of Dibutyl Phthalate: Equilibrium, Kinetic and Thermodynamic Study", **CLEAN - Soil, Air, Water**, Volume 40, Issue 6, **June 2012**, Pages 630-639. DOI: 10.1002/clen.201100287. (IF: 1.95)
90. **Amber R. Solangi**, Alan M. Bond, Iko Burgar, Anthony F. Hollenkamp, Michael D. Horne, Thomas R  ther, Chuan Zhao, Comparison of Diffusivity Data Derived from Electrochemical and NMR Investigations of the $\text{SeCN}^-/(\text{SeCN})_2/(\text{SeCN})_3^-$ System in Ionic Liquids, **The J. Phys. Chem B.** 115, pp 6843–6852, **2011**. (IF: 3.466)
91. **Amber R. Solangi**, Saima Q. Memon, Arfana Mallah, Najma Memon, M. Y. Khuhawar and M. I. Bhangar, Development and implication of a capillary electrophoresis methodology for ciprofloxacin, paracetamol and diclofenac sodium in pharmaceutical formulations and simultaneously in human urine samples, **Pak. J. Pharm. Sci.** Vol.24, No.4, pp.539-544, October **2011**. (IF: 0.8)
92. S. Sara Hassan, Sirajuddin, **Amber R. Solangi**, Ultra-fast catalytic reduction of dyes by ionic liquid recoverable and reusable mefenamic acid derived gold nanoparticles, **J. Hazard. Mater.** 190, pp1030–1036, **2011**. (IF: 13.6)

93. Arfana Mallah, Saima Q. Memon, **Amber R. Solangi**, M.Y. Khuhawar and M.I. Bhanger, Micellar Electrokinetic Chromatographic Separation/Determination of thorium, Uranium, Gold and Mercury from Environmental Ore samples, *Acta Chromatographica*, Vol. 23(1), pp 69-80, 2011. (IF: 1.94)
94. **Amber R. Solangi**, Saima Q. Memon, Arfana Mallah, Najma Memon, M. Y. Khuhawar and M. I. Bhanger, Determination of Ceftriaxone, Ceftizoxime, Paracetamol and Diclofenac Sodium by Capillary Zone Electrophoresis in Pharmaceutical formulations and in Human Blood Serum, *Turkish J. Chem*, Vol. 34, pp 921-933, 2010. (IF: 1.4)
95. **Amber R. Solangi**, Saima Q. Memon, M. Y. Khuhawar and M. I. Bhanger, Arfana Mallah, "A Capillary Zone Electrophoretic Method for Simultaneous Determination of Seven Drugs in Pharmaceuticals and in Human Urine", *JAOAC International*, Vol. 92 (5), pp 1382-1389, 2009. (IF: 1.6)
96. **Amber R. Solangi**, Saima Q. Memon, M. Y. Khuhawar and M. I. Bhanger, Arfana Mallah, "Quantitative separation of oxytocin, norfloxacin and diclofenac sodium in milk samples using capillary electrophoresis" *Biomedical Chromatography*, Vol. 23 (9), pp 1007-1013, 2009. (IF: 1.8)
97. **Amber R. Solangi**, Arfana Mallah, M. Y. Khuhawar and M. I. Bhanger, "Cathodic Stripping Voltammetry of Pipemidic Acid and Ofloxacin in Pharmaceutical Dosages and Human Urine", *J. Iran. Chem. Soc.*, Vol. 6, (1), 71 – 76, 2009. (IF: 2.4)
98. Saima Q. Memon, Najma Memon, **Amber R. Solangi**, Jamil-ur-Rehman Memon, "Sawdust: A green and economical sorbent for thallium removal". *Chemical Engineering Journal*, Vol. 140, 235 – 240, 2008. (IF: 15.1)
99. **Amber R. Solangi**, Saima Q. Memon, M. Y. Khuhawar and M. I. Bhanger, "A Quantitative Capillary Zone Electrophoretic Method for Determination of Eight Cephalosporin Antibiotics in Pharmaceuticals and in Urine Samples", *Acta Chromatographica* Vol. 19, 81 – 96, 2007. (IF: 1.94)
100. **Amber R. Solangi**, Arfana Mallah, M. Y. Khuhawar and M. I. Bhanger, "Cathodic Stripping Voltammetric Determination of Cefadroxil in Pharmaceutical Preparations and in Blood Serum", *Pak. J. Anal. Envir. Chem.* Vol.7, Issue 2, 107 – 111, 2006. (IF: 0.6)
101. **Amber R. Solangi**, M. Y. Khuhawar and M. I. Bhanger, "Adsorptive Stripping Voltammetric Determination of Fluoroquinolones in Pharmaceuticals", *J. Food. Drug Anal.*, Vol. 13, No. 3, 201 – 204, 2005. (IF: 3.6)
102. **Amber R. Solangi**, A. W. K. Khanzada, "Potentiometric determination of Potassium using indigenously fabricated coated wire ion selective electrode", *Pak. J. Anal. Chem.* – Vol. 5. Issue 2, 88 – 90, 2004. (IF: 0.6)
103. Shama A. Pathan, M. H. Phulpoto, **Amber R. Solangi**, A. W. K. Khanzada, "Solvent Dependent ¹³C NMR Chemical Shifts in 6-Methylquinoline and 8-Methylquinoline", *J. Chem. Soc. Pak.*, Vol.25, No. 3, Sep- 2003. (IF: 0.698)

104. **Amber R. Solangi** and AWK Khanzada, “A Simple and Low Cost Set-up for Surface Tension Measurement of Highly Viscous Liquids” *J. Chem. Soc. Pak.*, Vol.25, No. 1, March-2003. **(IF: 0.698)**
105. **Amber R. Solangi**, Saima Q. Memon, A. W. K. Khanzada, “Determination of Chlorides in matchsticks”, *Pak. J. Anal. Chem.* – Vol. 3. Issue 2, 129 – 131, 2002. **(IF: 0.6)**

INTERNATIONAL TRAININGS ATTENDED

1. International Training Workshop on “**Sustainable Economic Growth through Establishing Science and Technology Parks**” jointly organized by IRIS and UNESCO at Isfahan Science and Technology Town, Iran from 27 -29 November, 2023.
2. International training on “**Developing Female leadership in Higher Education in Pakistan**” online program delivered by Michigan State University in collaboration with U.S Department of State since March 2023. “**Women Leadership Summit**” in Islamabad from October 8-12, 2023.
3. Training course on “**Ph.D Supervisors Capacity Building Program**” offered by NAHE-HEC, **Islamabad** (sponsored by British Council), **from 19-23 June (Cohort-1)** and **from 31 July to 4 August (Cohort-2), 2023.**
4. International Training Course on “**Environmental Toxicology and Health**” **from June 15 – 20, 2022** Organized by **Chulabhorn Research Institute, Bangkok, Thailand.**
5. Training workshop on “**Women Leadership Program**” offered by NAHE-HEC, **Islamabad** (sponsored by British Council), **from 29 November to 4th December, 2021.**
6. International Training School on the Theory and Experiment of Modern Electroanalytical Chemistry **from August 29 to September 12, 2019 being held at** Changchun Institute of Applied Chemistry, Chinese Academy of Sciences 5625 Renmin Street, Changchun, Jilin, China.
7. International Training Course on “**Detection of environmental pollutants and monitoring of health effects**” **from February 05 – 16, 2018** Organized by **Chulabhorn Research Institute, Bangkok, Thailand.**
8. International Training Course on “**Principles of Toxicology, Toxicity Testing and Safety Evaluation**” **from February 07 – 22, 2017 in Bangkok, Thailand** Organized by Chulabhorn Research Institute, nominated by Ministry of Economic Affairs Division, Islamabad.
9. **11th Science, Technology and Innovation Management Training Course for Researchers in OIC Countries**” organized by Malaysian Technical Cooperation Program from **4 - 13 October 2015, Kuala Lumpur, Malaysia, nominated by Ministry of Economic Affairs Division, Islamabad.**

CONFERENCES & SEMINARS ORGANIZED

1. Focal Person at One day “**Workshop on Scientific Writing and Research Management**” **May 2nd, 2023** at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro.
2. **Resource Person** at Two days workshop on “**PATENT & RESEARCH PAPER WRITING from 30th& 31st May 2016** at Hotel Elites, Nathiagali, Pakistan, organized by National Center of Excellence in Physical Chemistry, University of Peshawar, Peshawar, Pakistan.
3. Organizing Committee member/Stage secretary at “**11th International Symposium on Analytical & Environmental Chemistry**”, **March 07-08, 2016**, held at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro.
4. Organizing Secretary of three days workshop on “**Applications of Chromatographic Techniques in Residue Analysis**” from **Feb 18-20, 2013**, held at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro.
5. Organizing Secretary of “**10th International Symposium on Analytical & Environmental Chemistry**”, **Dec 02-04, 2013**, held at National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro.
6. Resource Person at 3-days Training Workshop on “Analytical Techniques in Soil and water Analysis” June 15 – 17, **2010** held at **Sindh Agricultural University, Tando Jam- Pakistan**.

PAPER PRESENTED AT INTERNATIONAL CONFERENCES & SEMINARS

1. Invited lecture at “**9th IUPAC International Conference on Green Chemistry**” from 5-9 September, **2022** being held at **Athens, Greece**.
2. Invited lecture at “**18th International Symposium on Electro-Analytical Chemistry**” from August 25 to 27, **2021** being held at Changchun Institute of Applied Chemistry, Chinese Academy of Sciences 5625 Renmin Street, Changchun, Jilin, China.
3. **17th International Symposium on Electro-Analytical Chemistry and 3rd International meeting on electrogenerated chemiluminescence** from August 22 to 25 **2019** being held at Changchun Institute of Applied Chemistry, Chinese Academy of Sciences 5625 Renmin Street, Changchun, Jilin, China.
4. Invited lecture at **NANO SMAT-Africa-2018** held at Lord Charles Hotel, Cape Town, South Africa from 19 – 23 November, **2018** organized by UNISA and iThemba Labs, South Africa.
5. Invited lecture at **4th International Turk-Pak Conference on Chemical Sciences** from October 26-28, **2017** at Selçuk University, Konya, Turkey.
6. **9th International Conference and Exhibition on “Chemistry and Industry (CHEMINDIX-2013)”** held at *Gulf International Convention Center, Gulf Hotel, Manama, Kingdom of Bahrain*, from November 04 – 06, **2013**.

7. “The 3rd PAK-TURK Conference on Chemical Sciences” 13-15 September, **2012**, held in **Bursa, Turkey**.
8. 2nd International Laboratory Technology Conference & Exhibition (**LAB-TECH 2011**)” October 8-12, **2011** at Ritz Carlton Hotel, **Doha, Qatar**.
9. 25th National Chemistry Congress with International participation”, June 27 – July 02, **2011** at Ataturk University, Erzurum, **Turkey**.
10. International Conference of Chemistry on “Green and Sustainable Chemistry in Developing Countries” March 03 – 06 , **2008**, at *Department of Chemistry, Cairo University, Cairo, Egypt*.
11. Pure and Applied International Chemistry Conference”, Jan 30 to Feb 01, **2008**, at *Kasatsart University, Bangkok, Thailand*.
12. 12th Asian Chemical Congress (12ACC) 2007, from August 23-25, **2007** held at *Putra World Trade Center, Kuala Lumpur, Malaysia*.
13. Asian Conference on Laboratory Biosafety and Biosecurity, from 17-19 April **2007**, held at *Marriot Hotel, Bangkok, Thailand*.
14. 7th International Conference and Exhibition on “Chemistry and Industry (CHEMINDIX-2007)” held at *Gulf International Convention Center, Gulf Hotel, Manama, Kingdom of Bahrain*, from 26- to 28 March, **2007**.
15. 5th Aegeon Analytical Days 2006, October 5 – 9, **2006**, *Laboratory of Analytical Chemistry, University of Aristotle, Thessaloniki, Greece*.
16. 40th IUPAC Congress on Innovations in Chemistry, August 13 – 19, **2005**, **Beijing, China**.

PAPER PRESENTED AT NATIONAL CONFERENCES & SEMINARS

1. Invited lecture at “**National Conference on Chemical Sciences: A Multidisciplinary Approach (ICCS-MA)-2022**” held on **29-31 March 2022** at Shah Abdul Latif University (SALU), Khairpur Mir’s, Sindh-Pakistan.
2. Invited lecture at “**19th International and 31st National Conference on Emerging Trends in Chemistry (2ndCCUMT)**” held on **December 16-18, 2021** at University of Management and Technology (UMT) Lahore, Pakistan.
3. Invited lecture at “2nd International Conference of Chemistry and its role in Science” under the theme “Chemistry Today” to be held on **August 2nd – 4th, 2019** at Department of Chemistry University of Karachi, Karachi, Pakistan.
4. Oral presentation at “International School on Physics and allied Disciplines –**March 2019**, being held at National Center for Physics, Islamabad.

5. Invited lecture at International Conference on “**Recent Trends in Chemistry**” organized by Department of Chemistry, Allama Iqbal Open University, Islamabad, Pakistan from **7-8 November, 2018**.
6. Oral presentation at 28th National and 16th International Chemistry Conference” held at Federal Urdu University of Arts, Science and Technology, Karachi from **November 20-22, 2017**.
7. Invited lecture at International Conference on “**Current Research in Chemical & Pharmaceutical Sciences**” organized by Department of Chemistry, Forman Christian College (A Chartered University), Lahore, Pakistan from **18-20 Jan, 2017**.
8. **Key note lecture** at 27th National and 15th International Chemistry Conference” held at University of Malakand, from August 22-25, **2016**.
9. 25th National and 13th International Chemistry Conference” held at University of the Punjab, Lahore from October 20-22, **2014**.
10. 2nd International Conference on Environmental Horizon” held at University of Karachi, Karachi from Jan 1 – 3, **2014**.
11. “International Conference on Physical & Environmental Chemistry” held at Baragali Campus, University of Peshawar, from 09-11 September, **2013**.
12. International Conference on “Current Technologies in Oils & Fats”, March 21-23, **2011** at *NCEAC, University of Sindh, Jamshoro, Pakistan*.
13. 1st National Conference on Physical & Environmental Chemistry”, 27-29 September, **2010** at Baragali Campus, University of Peshawar, **Pakistan**.
14. Pak-Turk Seminar on Chemical Sciences”, Feb 11-13, **2010** at NCEAC, University of Sindh, *Jamshoro, Pakistan*.
15. 1st National Symposium on Analytical, Environmental and Applied Chemistry, 24 – 25 October, **2008** at *SAL University, Khairpur Mir’s, Sindh, Pakistan*.
16. 1st Regional Workshop on Urban Water Demand Management, August 27-28, **2008**, at *NCEAC, University of Sindh, Jamshoro, Pakistan*.
17. 2nd International Seminar on Analytical Sciences, Sep 6 – 8, **2007**, **NCEAC, University of Sindh, Jamshoro, Pakistan**.
18. 9th International Symposium on Analytical and Environmental Chemistry, July 24– 26, **2006**, *Institute of Chemical Sciences, University of Peshawar, Pakistan*.
19. International Training Workshop on Patent System, December 02 – 04, **2005**, *NCEAC, Jamshoro, Pakistan*.
20. 8th International Symposium on Analytical and Environmental Chemistry, Feb. 07 – 08, **2005**, *NCEAC, Jamshoro, Pakistan*.

21. National Seminar on Environmental, Social and Cultural impact of water scarcity in Sindh, January 15-16, **2004**, *M.A. Kazi Institute of Chemistry, University of Sindh, Jamshoro – Pakistan.*
22. Pakistan-Bangladesh-Iran International Seminar on Analytical Sciences, 8-9 December **2003**, *NCEAC, Jamshoro, Pakistan.*
23. 7th National Symposium on Analytical and Environmental Chemistry, 4-5 March **2003**, *NCEAC, University of Sindh, Jamshoro, Pakistan.*
24. 2nd International and 12th National Chemistry Conference, 4-6 February, **2002**, *NCEAC, University of Sindh, Jamshoro, Pakistan.*
25. 7th Eurasia Conference on Chemical Sciences, 09-12 March, **2002**, *HEJ Research Institute of Chemistry, Karachi, Pakistan.*
26. Seminar on University- Industry Interaction, 13th November **2001**, *NCEAC, University of Sindh, Jamshoro, Pakistan.*
27. 1st International and 11th National Chemistry Conference, 12 April **2001**, *University of Peshawar, Pakistan.*
28. 10th National Chemistry Conference, October **1999**, *Quaid –i-Azam University, Islamabad, Pakistan.*

MEMBERSHIP

- ❖ **Fellow** *Chemical Society of Pakistan* (and Life time member)
- ❖ Soil Science Society of Pakistan
- ❖ American Chemical Society (ACS), USA
- ❖ American Society for Microbiology, USA
- ❖ International Society for Development & Sustainability, Japan

REFERENCES

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