

CURRICULUM-VITAE

Dr. Abdul Moheman

Assistant Professor

Department of Chemistry, Gandhi Faiz-E-Aam College
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Teaching Experience U.G. & P.G.

~06 Years

Research Experience (After Ph. D.)

~13 Years

Research Areas of Interest

- ✓ Fabrication of electrospun polymer based nanofibers and their use as stationary phases in ultra thin layer chromatography (UTLC)
- ✓ Identification and quantitative estimation of organics/ inorganics with preliminary separation by TLC/HPTLC/UTLC
- ✓ Surfactants/biosurfactants as separation promoters in thin layer chromatography
- ✓ Development of green thin layer chromatographic system
- ✓ Synthesis and kinetic studies of organometallic complexes
- ✓ Soil analysis
- ✓ Soil as layer material in thin layer chromatography
- ✓ Evaluation of impact of pollutants (heavy metals and pesticides) on plant growth and Nutrient uptake
- ✓ Surfactants in plant growth and nutrient uptake

Teaching Experience

- Assistant Professor; October 08, 2015 – to date; Department of Chemistry, Gandhi Faiz-E-Aam College, Shahjahanpur, U.P., India.

Fellowships Availed

- UGC-Dr. D. S. Kothari Post Doctoral Fellow; October 15, 2012 to October 07, 2015; Department of Chemistry, Faculty of Science, Jamia Hamdard, New Delhi, India.
- Post Doctoral Research Associate (CSIR); April, 2009– March, 2012; Department of Chemistry, Aligarh Muslim University, Aligarh, U.P., India.
- UGC fellowships during Ph. D. course.

Education

- Ph. D. (Applied Chemistry) 2008; Aligarh Muslim University, Aligarh, U.P., India.
- M. Phil (Applied Chemistry) 2005; Aligarh Muslim University, Aligarh, U.P., India.
- M. Sc. (Chemistry) Specialization in **Organic Chemistry**; 2000; I Division; M. J. P. Rohilkhand University, Bareilly, U.P., India.
- B. Sc. (Chemistry, Zoology, Botany) 1997; I Division, M. J. P. Rohilkhand University, Bareilly, U.P., India.

Title of M. Phil and Ph.D.: "Interaction and Mobility of Pollutants with Crops and Soils of Aligarh District"

Refresher/Orientation/Workshop/Short Term Courses

- Online **Subject Refresher Course** in Environmental Studies (open to all) from 03/09/2020 – 18/09/2020 with **A** grade, UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh.
- **Subject Refresher Course** in Human Rights (Interdisciplinary) from 11/06/2019– 23/06/2019 with **A** grade at UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh.
- **Orientation Programme-CXLV** from 20 Feb 2017 to 21 March 2017 with **A** grade at UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh.
- Online **Workshop** on MOOCs Development and Delivery from 05 February 2021 to 11 February 2021 organized by UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh.
- Online **Faculty Development Programmes** on Digitalisation of Education Content Through Open Source Tools from 06/08/2020 to 10/08/2020, Department of Commerce, Aligarh Muslim University, Aligarh.
- Online **Workshop** in E-content Development and Online Pedagogy from 12/12/2020 to 18/12/2020, UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh.
- **STEM Teacher Training Workshop on Research-Based Pedagogical Tools (Level 1)** Jointly sponsored by the Department of Biotechnology (DBT), Govt. of India; The British Council; Centre of Excellence in Science and Mathematics Education, IISER Pune (Supported by MHRD, Govt. of India) from 28/09/2018– 01/10/2018 at Jaipur, Rajasthan.

Administrative Post/Departmental Duties

- Member of Departmental Seminar Library from 2015-2017.
- Member of Admission Committee from 2016-till date.
- President of College Volley Ball Team (Men's and Women's) from 2016-2018.
- Member of Career Counselling and Guidance Cell from 2016-2021.
- In-charge of Departmental Seminar Library from 2017-till date.
- Member of Science Exhibition Committee from 2017-2020.
- Member of M. J. P. R. U. Flying Squad Team for Session 2017-2018.
- President of College Volley Ball Team (Men's) from 2018-2019.
- Assistant Superintendent of M.J.P. Rohilkhand University Examination-2020, Gandhi Faiz-E-Aam College, Shahjahanpur for Session 2020-2021.
- Member of National Education Policy (NEP) Cell from 2021-till date.
- Member of Research Committee from 2021-till date.

Professional Recognition/Awards and Fellowships Received

- Worked as joint organizing secretary in National Conference on Recent Advances in Nanoscience and Green Chemistry (RDNGC 2020) held on Feb 1-2, 2020 organized by Gandhi Fiaz-E-Aam College, Shahjahanpur.
- Member in Poster evaluation committee of National conference, "Nanopolysaccharides for Environmental Sustainability" organized by Department of Chemistry, Jamia Millia Islamia, New Delhi on 25 September 2019.
- Chaired session in an International Seminar, "Recent Advances on Chemical Sciences and Allied Areas (RACS2A-2018) & the 55th Annual Convention of Chemists 2018" organized by Indian Chemical Society, Kolkata at G. B. College, Naugachia (T. M. Bhagalpur University), Bhagalpur, Bihar on December 28-30, 2018.
- Certificate of recognition (2016) for paper published in impact factor >3, Jamia Hamdard, New Delhi.
- Worked as an organizing member in 4th National Symposium on Recent Advances in Analytical Sciences and Applications held on Feb 9-10, 2015 at Jamia Hamdard, New Delhi organized by Department of Chemistry, Jamia Hamdard, New Delhi, Department of Chemistry, Kashmir University, Srinagar in association with Indian Society of Analytical Scientists (Delhi Chapter).

- Awarded certificate of merit – “Dr. P. D. Sethi annual award for best paper in pharmaceutical analysis” 2012.
- Awarded Dr. D. S. Kothari Postdoctoral Fellowship (2012), UGC, New Delhi (India).
- Awarded Research Associateship (2009) in the project entitled, “Interaction of Modulated Polyaza Macrocyclic complexes with DNA: An Invitro Study, CSIR, New Delhi (India).
- Worked as Managing Editor (2008-2009) of an International Journal “Chemical and Environmental Research” published by the Muslim Association for the Advancement of Science, Aligarh, India.
- Acted as a referee to review the research papers submitted for publication in reputed journals (Arabian Journal of Chemistry, Separation Science and Technology, Journal of Surfactants and Detergents, Journal of Drug Delivery Science and Technology Chiang Mai Journal of Science etc.)

Scientific Society Membership

- ✓ Life membership of Indian Council of Chemists
- ✓ Life membership of Asian polymer association

Courses Taught

▪ Post Graduate

M. Sc. (P) : Nature of Bonding in Organic Molecules, Aromatic Electrophilic Substitution, Aromatic Nucleophilic Substitution, NMR Spectroscopy and Lab Course (Inorganic Chemistry)

M. Sc. (F) : Organic Synthesis II and Lab Course

▪ Graduate

B. Sc. (I & II) : Organic Chemistry and Lab Course

List of Publications in Reputed Journals

1. S. Yadav, **A. Moheman**, Abhinav Kumar, Rajendra Prasad and K. S. Siddiqi " Conformational isomers of dichloro *bis*(1,3-diaminopropane) copper(II): Synthesis, characterization and DFT modeling" *Arabian Journal of Chemistry* **10**: S1435-S1444 (2017).
2. **A. Moheman**, M Sarwar Alam, A. Gupta, S. R. Dhakate, A Kumar and A. Mohammad "Fabrication of electrospun nanofiber stationary phases from chopped

- polyacrylonitrile co-polymer microfibers for use in ultrathin layer chromatography of amino acids" *RSC Advances* **6**: 90100-90110 (2016).
3. S. Yadav, **A. Moheman** and K.S. Siddiqi "Synthesis and characterization of heterobimetallic complexes of the type $[Cu(pn)_2][MCl_4]$ where M = Co(II), Ni(II), Cu(II), Zn(II), Cd(II), and Hg(II)" *Arabian Journal of Chemistry* **9**: S1747-S1754 (2016).
 4. **A. Moheman**, M Sarwar Alam and A. Mohammad "Recent trends in electrospinning of polymer nanofibers and their applications in ultra thin layer chromatography" *Advances in Colloid and Interface Science* **229**: 1-24 (2016).
 5. A. Mohammad, Asma Siddiq, **A. Moheman** and Gaber E. El-Desoky "Ethyl acetate—propionic acid as green mobile phase system for selective densitometric identification of maltose with preliminary separation on silica HPTLC plates" *Journal of Planar Chromatography* **27**: 19-22 (2014).
 6. A. Mohammad, Asma Siddiq, **A. Moheman** and Gaber E. El-Desoky "On-plate identification of amino acids with preliminary separation using green solvents" *Journal of Liquid Chromatography & Related Technology* **37**: 829-840 (2014).
 7. A. Mohammad, Asma Siddiq, **A. Moheman** and Gaber E. El-Desoky "Green analytical method for identification of amino acids, vitamins and sugars with preliminary separation on HPTLC plates" *Indian Journal of Chemical Technology* **20**: 180-184 (2013).
 8. A. Mohammad, Asma Siddiq, **A. Moheman** and Gaber E. El-Desoky "Aqueous urea solution promoted resolution of five- component mixture of amino acids on silica TLC plates" *Journal of Planar Chromatography* **36** (1): 31-36 (2013).
 9. A. Husain, Mark M. Turnbull, Shahab A. A. Nami, **A. Moheman** and K. S. Siddiqi, "Synthesis, crystal structure and magnetic properties of single end-to-end azido bridged 1D chain coordination polymers of Cu(II)." *Journal of Coordination Chemistry* **65** (15): 2593-2611 (2012).
 10. **A. Moheman** and K.S. Siddiqi "Kinetics and mechanism of nucleophilic substitution in $SnR_2Cl_2 \cdot 2DMSO$ by chloride ions in micellar microenvironment". *Tenside: Surfactants Detergents* **49** (4): 284-287 (2012).

11. A. Husain, **A. Moheman**, S.A. Nami and K.S. Siddiqi, "Fourteen membered hexaaza copper macrocycle: synthesis, characterization, crystal structures and the consequence of anion coordination." *Inorganic Chimica Acta* **384**: 309-317(2012).
12. A. Mohammad, **A. Moheman** and Gaber E. El-Desoky "Amino acid and vitamin determination by TLC/HPTLC- review of the current state" *Central European Journal of Chemistry*, **10**(3): 731-750 (2012).
13. A. Mohammad, Arshi Amin and **A. Moheman** "Chromatographic behaviour and separation of pesticides on thin silica gel layers impregnated with cationic micelles". *Journal of Planar Chromatography* **25** (2): 101-107 (2012).
14. A. Mohammad and **A. Moheman**, "A new spray reagent for selective detection and determination of dichlorvos (2, 2'-dichlorovinyl, O, O-dimethyl phosphate) in bluish tinged maize grains by TLC-spectrophotometry". *Journal of Planar Chromatography*, **24** (2): 113-115 (2011).
15. **A. Moheman**, A. Husain and K.S. Siddiqi, "Biosurfactant in Plana Chromatography of Transition Metal Ions: Mixed Micelles Activated Separations". *Tenside: Surfactants Detergents*, **48** (4): 275-280 (2011).
16. A. Mohammad, S. Habib and **A. Moheman**, "Some observations on the migration behavior of pesticides on soil and soil-silica flat beds". *Annals of Agrarian Science*, **9**(1): 00-00 (2011).
17. A. Mohammad and **A. Moheman**, "Adsorption of zinc(II) and cadmium(II) on soil layers in TLC in the presence of surfactant-containing Mobile phase". *Journal of Planar Chromatography*, **23** (1):28-34 (2010).
18. A. Mohammad, S. Hena and **A. Moheman**," Micellar TLC of inorganic ions: Simultaneous separation of co-existing Pb(II) , Zn(II), and Co(II) and spectrophotometric determination of zinc(II)". *Journal of Planar Chromatography* **23** (2): 162-165 (2010).
19. A. Mohammad, S. Khatoon, A.M.T. Khan and **A. Moheman**, "Synthetic and chromatographic studies on silica polyaniline: A new approach" *Archives of Applied Science Research* **2** (2): 233-240 (2010).
20. A. Mohammad, S. Laeeq and **A. Moheman**, "Sodium deoxycholate micelles activated separation of coexisting five-nucleobases by high performance thin- layer chromatography". *Journal of Bioanalysis & Biomedicine*, **2**(2): 055-59, (2010).

21. A. Mohammad and **A. Moheman**, "The effects of cadmium and zinc interactions on the accumulation and tissue distribution of cadmium and zinc in tomato (*Lycopersicon esculentum*)". *Archives of Agronomy and Soil science*, 56 (5): 551-561 (2010).
22. A. Mohammad and **A. Moheman**, "Adsorption studies of chromium(VI) and molybdenum(VI) through soil static phase. *Australian Journal of Basic and Applied Sciences*, 4 (8): 3635-3642 (2010).
23. A. Mohammad, **A. Moheman** and Seema, "The influence of single and multiple soil contamination of cadmium with lead and zinc on growth, chlorophyll contents, uptake and translocation of cadmium in tomato plants". *Archives of Agronomy and Soil Science*, 55 (4): 407-413 (2009).
24. A. Mohammad, **A. Moheman** and Seema, "Studies on ionic surfactants assisted soil: Growth and nutrient uptake efficiency of wheat plants" *Annals of Agrarian Science*, 6 (2): 20-25 (2008).
25. A. Mohammad, **A. Moheman** and Seema, "Growth and nutrient uptake efficiency of wheat from non-ionic surfactant amended soil". *Annals of Agrarian Science*, 6 (3): 7-14 (2008).
26. A. Mohammad, **A. Moheman** and Seema, "Soil layer chromatographic studies of pesticides". *Acta Universitatis Cibiniensis Seria F Chemia*, 11(1): 15-27, (2008).
27. A. Mohammad, **A. Moheman** and Seema, "Planar chromatography of heavy metals on soil as stationary phase with amino acid-containing mobile phases". *Journal of Planar Chromatography*, 21 (6): 453-460 (2008).
28. S.U. Khan and **A. Moheman**, "Effect on heavy metals (cadmium & nickel) on the seed germination, growth and metals uptake by chilli (*Capsicum frutescence*) and sunflower (*Helianthus annuus*) plants". *Pollution Research*, 25 (1) 99-104 (2006).
29. A. Mohammad and **A. Moheman**, "Influence of dimethoate on some available nutrients of fertilized soil, seed germination, growth and nutrients uptake by wheat (*Triticum aestivum*)". *Annals of Agrarian Science*, 4 (1): 21-28 (2006).
30. Samiullah Khan and **A. Moheman**, "Effect of some anions on the mobility of amino acids in soils by thin layer chromatography". *Journal of Environmental Science & Engineering*, 47 (4): 310-315 (2005).

31. A. Mohammad and **A. Moheman**, "Study of the effect of molybdenum on growth and nutrients concentration of tomato (*Lycopersicum esculentum*) and black gram (*Phaseolus mungo*) plants". *Annals of Agrarian Science*, **3** (4): 22-26 (2005).

Book Chapters

1. **A. Moheman**, Showkat Ahmad Bhawani and Abu Tariq (2021) "Aerogels for Waterborne Pollutants Purification" pp. 109-124, in *Advances in Aerogel Composites for Environmental Remediation* (Eds. Aftab Khan, Mohammad Ansari, Anish Khan, Abdullah Asiri), ISBN: 9780128207321, Elsevier.
2. Abu Tariq, Showkat Ahmad Bhawani , Khalid Mohammed Alotaibi and **Abdul Moheman** (2021). *Smart Biopolymers and their Applications* pp. 145-167, in *Smart Polymer Nanocomposite*, (Eds. Showkat Ahmad Bhawani, Anish Khan and Mohammad Jawaid), 978-0-12-819961-9 published by Elsevier.
3. **Abdul Moheman** and Mohd. Asif Hasan (2020) "Impact of Covid-19 pandemic on Indian Economy"pp. in *Social and Community Aspects of Covid-19 Pandemic* (Arun Pratap Sikarwar and Vindhya Chal Yadav), ISBN: 978-93-81247-85-3, Shriyanshi Prakashan, Agra, India.
4. **Abdul Moheman** (2020) "Use of Surfactants as Eluents in Soil Thin Layer Chromatography of Heavy Metals: A Green Approach to Chromatography in Recent Developments in Nanoscience and Green Chemistry (Ed. Naeem Uddin Siddiqui), ISBN: 81-88962-83-X, Neel Kamal Prakashan, Delhi, India.
5. Abu Tariq, Showkat Ahmad Bhawani and **Abdul Moheman** (2019). *Nanoparticles for Drug Delivery* pp. 175-196, in *Nanomaterials for Healthcare, Energy and Environment*, (Eds. A. H. Bhat et al.), 978-981-13-9833-9 published by Springer Singapore.
6. Showkat Ahmad Bhawani, Abu Tariq, **Abdul Moheman** and Zainab Ngaini (2019). "Functionalized Graphene Nanocomposites for Water Treatment" pp. 91-102, in *Functionalized Graphene Nanocomposites and Their Derivatives* (Eds. Mohammad Jawaid, Rachid Bouhfid and Abu el Kacem Qaiss); ISBN: 978-0-12-814548-7 published by Elsevier.

7. Showkat Ahmad Bhawani, **Abdul Moheman**, Amr A. Yakout and Mohammad Nasir Mohammad Ibrahim (2019). "Nanostructured Biopolymers for Applications as Drug-Delivery Vehicles" pp. 189-201, in Nanostructured Polymer Composites for Biomedical Applications es (Eds. Sarat Kumar Swain and Mohammad Jawaaid; ISBN: 978-0-12-816771-7 published by Elsevier.
8. **A. Moheman**, S. A. Bhawani, A. Husaini, M. S. Alam and A. Tariq, "Fingerprinting Techniques in Food Authentication and Traceability of Marine Species" pp. 397-411 in Fingerprinting Techniques in Food Authentication and Traceability (Eds. K. S. Siddiqi and Leo M.L. Nollet; eISBN: 9781315277219), **CRC Press, Taylor and Francis Group**, (2018).
9. Abu Tariq, Showkat Ahmad Bhawani, Ahmad Husaini, **Abdul Moheman** (2018). "Authentication and Traceability of Rice" pp. 383-391 in in Fingerprinting Techniques in Food Authentication and Traceability (Eds. K. S. Siddiqi and Leo M. L. Nollet); ISBN: 9781138197671 published by CRC Press, Taylor and Francis Group.
10. **A. Moheman**, "Scientific publications and their ethical issues: An overview" pp. 130-137, in Proceedings of the National Seminar on Promotion of Ethics and Human (Ed. M. Tayyab; ISBN: 81-88891-60-6), **Darul Eshaat-e-Mustafi, Lal Kuan, Delhi-6**, (2016).
11. **A. Moheman**, Md. Musawwer Khan and K.S. Siddiqi, "Organoleptical Methodology" pp. 95-107, in Hand Book of Water Analysis, 3rd edition (Eds. Leo M L Nollet, Leen S P De Gelder; ISBN: 9781439889640; eISBN: 9781439889664) **CRC Press**, (2013).
12. A. Mohammad and **A. Moheman**, "Cation-exchanged silica gel based thin layer chromatography of organic and inorganic compounds" pp. 391-411, in Ion Exchange Technology II: Applications (Eds. Inamuddin and Mohammad Luqman; ISBN: 978-94-007-4025-9; eISBN: 978-94-007-4026-6) **Springer Heidelberg Dordrecht London New York** (2012).
13. A. Mohammad and **A. Moheman**, "Effect of anionic and non-ionic surfactants in soil-plant system under pot culture" Chapter 55, pp. 261-264, in Chemistry of Phytopotentials: Health, Energy and Environmental perspectives (Eds. L D Khemani,

M M Srivastava and Shalini Srivastava; ISBN: 978-3-642-23393-7; eISBN 978-3-642-233944-4) *Springer Heidelberg Dordrecht London New York* (2012).

14. A. Mohammad and **A. Moheman**, "Biphasic layer materials in thin layer chromatographic analysis of inorganic and organic matrices" Chapter 15, pp. 437-463, in *Advanced Organic-Inorganic Composites: Materials, Devices and Allied Applications* (Ed. Inamuddin; ISBN: 978-1-61324-264-3) **Nova Science Publishers, Inc., USA** (2011).
15. A. Mohammad and **A. Moheman**, "TLC/HPTLC in biomedical applications" Chapter 10, pp. 151-178 in *High Performance Thin Layer Chromatography (HPTLC)* (Ed. M.M. Srivastva; ISBN: 978-3-642-14024-2; eISBN: 978-3-642-14025-9) **Springer Heidelberg Dordrecht London New York** (2011).

Conference Proceedings

1. Challenges for Biotechnology in Agriculture and Drug Development (2020) Edited by S. Yadav, M. S. Akhtar and **A. Moheman**, Diksha Prakashan, Delhi, p. 63 (ISSN: 978-93-90756-27-8).

Abstracts in National/International Conferences

1. Y. Ali, M. S. Alam and **A. Moheman** (2020). Attenuation of inflammatory Modiators and Toxic Risk Assessment of Curcuma zedoaria Root Extract. 20 June, 2020, p. 41 in International E-Conference on Challenges for Biotechnology in Agriculture and Drug Development, Department of Biotechnology and Microbiology, Gandhi Faiz-e-Aam College, Shahjahanpur, UP, India.
2. A. Gupta, S. R. Dhakate and **A. Moheman** (2020). Electrospun nanofibers mats as promising ultrathin chromatography plates (WMP 4). 1-2 February, p. 11 in National Conference on Recent Developments in Nanoscience and Green Chemistry (RDNGC-2020), Department of Chemistry, Gandhi Faiz-e-Aam College, Shahjahanpur, UP, India, 2020.
3. S. Khatoon, M. Shahzad, M. A. Usmani and **A. Moheman** (2020). Impact of Micro and Nanoplastics on Ecosystem (NN19). 1-2 February, p. 25 in National Conference on Recent Developments in Nanoscience and Green Chemistry (RDNGC-2020), Department of Chemistry, Gandhi Faiz-e-Aam College, Shahjahanpur, UP, India, 2020.
4. **A. Moheman** (2019). Fabrication of electrospun PAN copolymer nanofibers for use

- in ultra thin layer chromatography. 25 September, OP 12 in National Conference on Nano-polysaccharides for Environmental Sustainability Department of Chemistry, Jamia millia Islamia, New Delhi, India.
5. **A. Moheman** (2019). Analytical potential of mixed surfactants as eluent in thin layer chromatography of transition metal ions on soil amended cellulose layers. 9-10 March, 2019, p. 19 in National Conference on Advanced Technologies and Environmental Safety (ATES-2019) IFTM University, Moradabad, UP, India.
 6. **A. Moheman** (2018). Surfactants supported soil thin layer chromatography in evaluation of transportability of heavy metals. 28-30 December, p. 65 in International Conference on Recent Advances on Chemical Sciences and Allied Areas (RACS2A-2018) & the 55th Annual Convention of Chemists 2018 Indian Chemical Society, Kolkata, India.
 7. **A. Moheman** (2017). Influence of some anions on the migration behavior of amino acids by soil thin layer chromatography. March 19-20, CCEPH: 08, p. 106-107; 2. Use of Surfactants as mobile phase on the adsorption and migration of selected organic pesticides in soil by thin layer chromatography. CCEPH: 10, p. 107 in *National Conference on "Bio-degradation of wildlife, Environment and Biodiversity (B-WEB-2017)*, Gandhi Faiz-e-Aam College, Shahjahanpur, India.
 8. **A. Moheman**, Seema and A. Mohammad (2016). Growth, cadmium, lead and zinc uptake of tomato (*Lycopersicum esculentum*) as influenced by level of single and multiple contamination of soil: Cadmium. November 26-27, p. 95-96 in *National Seminar on Advances in Plant Science Frontier: Development & Environment (APSF-2016)*, Gandhi Faiz-e-Aam College, Shahjahanpur, India.
 9. **A. Moheman**, A. Gupta, S. R. Dhakate, M. S. Alam and A. Mohammad (2016). Development of electrospun polyacrylonitrile nanofibers based ultra thin layer chromatographic plates for on plate identification and monitoring the migration behavior of amino acids. March 12-15, PO-03 p. 50 in *International Conference on Nanotechnology & STEM-ER*, Aligarh Muslim University, Aligarh, India.
 10. **A. Moheman** and A. Mohammad (2016). Competitive adsorption behavior of Cr(VI) and Mo(VI) through six types of soil beds. February 12, p. 7, in *2nd International Conference on Innovations in Chemical, Biological & Environmental Sciences (ICBCES)*, Swami Sukdevanand PG College, Shahjahanpur, India.

11. **A. Moheman**, A. Mohammad, Seema and M. S. Alam (2015). Soil thin layer chromatography in the analysis of heavy metal cations and pesticides: A new analytical approach. Feb 9-10, OP. 3, p. 13-14, in *4th National Symposium on Recent Advances in Analytical Sciences and Applications*, Jamia Hamdard, New Delhi, India.
12. M. S. Akhtar, K. R. Hakeem, M. K. Swamy, S. N. A. Abdullah, **A. Moheman**, J. Panwar (2015). Biosynthesis of silver nanoparticles using *Cassia didymobotrya* leaf extracts and their antibacterial activity against multidrug resistant human pathogenic bacterial strains. Feb 9-10, OP. 7, p. 15-16, in *4th National Symposium on Recent Advances in Analytical Sciences and Applications*, Jamia Hamdard, New Delhi, India.
13. **A. Moheman** and A. Mohammad (2013). Adsorption Studies of Hexavalent Chromium and Molybdenum on Soil Static Flat Bed by Thin Layer Chromatography. March 2-3, ID. 151, in *International Conference on Chemistry: Frontiers and Challenges* Department of Chemistry, Aligarh Muslim University, Aligarh, India.
14. **A. Moheman** and K.S. Siddiqi (2012). Kinetics and mechanisms of ligand-exchange of Cu(methionine)₂ by polyamines. March 2-3, ID. 236, p.47, in '*National Conference on New Vistas in Chemistry*', Department of Chemistry, Aligarh Muslim University, Aligarh, India.
15. Seema Yadav, **A. Moheman** and K.S. Siddiqi (2012). Synthesis, characterization and spectroscopic investigation of mixed ligand Schiff base complexes of copper (II) with amino pyridine and sodium diethyldithiocarbamate March 2-3, ID. 234, p. 39, in '*National Conference on New Vistas in Chemistry*', Department of Chemistry, Aligarh Muslim University, Aligarh, India.
16. **A. Moheman** and K.S. Siddiqi (2011). Kinetics and mechanism of nucleophilic substitution in SnR₂Cl₂. 2DMSO by chloride ions in micellar microenvironment. Dec. 28-30, IO, 10. P. 63, in '*Indian Council of Chemists (ICC)*' Osmania University, Hyderabad.
17. A. Mohammad, **A. Moheman**, S. Laeeq (2011). A novel HPTLC method for the separation of coexisting purines and pyrimidines. In '*HPTLC Symposium*', P. 61, Basel Switzerland.
18. A. Mohammad, **A. Moheman**, and Saba Habib (2011). Separation and migration behavior of some pesticides on transition metal ions impregnated soil and soil-silica layer materials. March 5-6, AP-20, p.49 in '*International Conference on Chemistry:*

Frontiers and Challenges' Department of Chemistry, Aligarh Muslim University, Aligarh, India.

19. A. Husain, **A. Moheman**, and K.S. Siddiqi (2011). Fourteen membered hexaaza copper macrocycle: synthesis, characterization, crystal structures and the consequence of anion coordination. March 5-6, IP-20, p.97 in '*International Conference on Chemistry: Frontiers and Challenges*' Department of Chemistry, Aligarh Muslim University, Aligarh, India.
20. **A. Moheman**, A. Husain, M.S. Akhtar, K.S. Siddiqi (2011). Assessment of efficacy of biosurfactant for separation and mobility of heavy metals in soil by thin layer chromatography: A New Approach. February 19th, p .6 in '*National Seminar on Sustainable Agriculture and Environmental Health: Problem and Solution*' Department of Botany, RS Government College, Shivrajpur, Kanpur, India.
21. .A. Mohammad and **A. Moheman** (2011). Cadmium and zinc interactions and their transfer in soil-plant system under pot experiment. February 22, P. 48, p. 50, in '*National Symposium on Current Trends in Biochemical, Biomedical and Environmental sciences*' Department of Biochemistry, Aligarh Muslim University, Aligarh, India.
22. M.S. Akhtar, **A. Moheman**, Y.S. Yun, H.M. Jais (2011). Effect of mycorrhizal fungus *Glomus mosseae* on the growth and metal accumulation changes in *Brassica juncea*. February 19th 5 p. in '*National Seminar on Sustainable Agriculture and Environmental Health: Problem and Solution*' Department of Botany, RS Government College, Shivrajpur, Kanpur, India.
23. M.S. Akhtar, **A. Moheman**, Z.A. Siddiqi, and Y.S. Yun (2011). Plant growth promoting bacteria: A paradigm for removal of heavy metal from soil. February 19th 19 p. in '*National Seminar on Sustainable Agriculture and Environmental Health: Problem and Solution*' Department of Botany, RS Government College, Shivrajpur, Kanpur, India.
24. A. Mohammad, **A. Moheman** (2010). TLC-spectrophotometric detection reagent for dichlorovos (DDVP) in bluish tinged grains. December 19-21 in '*XXIX Annual Conference Indian Council of Chemists*' Department of Chemistry, OP-02: p. 129, Punjab University, Chandigarh, India.
25. A. Mohammad, Arshi Ameen, and **A. Moheman** (2010). Separation of pesticides on cationic micelles impregnated silica layers by thin layer chromatography. December

19-21 in 'XXIX Annual Conference Indian Council of Chemists' Department of Chemistry, AO -35, p. 253, Punjab University, Chandigarh, India.

26. A. Mohammad, and **A. Moheman** (2009). Use of surfactants as mobile phase on the adsorption and migration of zinc(II) and cadmium(II) in soil-systems. December 17-19 in Recent Advances in Environmental Protection (RAEP), Eco-Agriculture Section, p. 156, St. John's College, Agra, India.
27. S.U. Khan, and **A. Moheman** (2004). Effect of heavy metals.....sunflower plants (*Helianthus annuus*). 28 Febuary, in 'Seminar on Environmental Vision: Retrospect & Prospect' Baba Saheb Dr. B. R. Ambedkar College of Agril. Engg. & Technology, C. S. Azad University of Agriculture & Technology Campus, Etawah, India.

Invited Talks

- **A. Moheman** (2018). Delivered an Invited Lecture entitled "*Surfactants supported soil thin layer chromatography in evaluation of transportability of heavy metals*" AEC (IL)-11: on 28-30 December, in International Seminar on Recent Advances on Chemical Sciences and Allied Areas (RACS2A-2018) & the 55th Annual Convention of Chemists 2018 Organized by Indian Chemical Society at G. G B. College, Naugachia (T. M. Bhagalpur University) Bhagalpur, Bihar, India.

Participated Seminar/ Conferences/Symposium

1. **One-Day National Webinar on Research Innovation and Ranking** suggested by UGC, organized by Karm Kashetra Mahavidyalaya, Etawah, UP, India on 16 August, 2021.
2. **National Webinar on Repurposing or Synthesis? Challenges in Drug Discovery against Covid-19**, organized by Department of Chemistry, T.N.B. College Bhagalpur, Bihar, India on 21 May, 2020.
3. **International E-Conference on Challenges for Biotechnology in Agriculture and Drug Development (CBADD-2020)**, organized by Department of Biotechnology and Microbiology, Gandhi Faiz-e-Aam College, Shahjahanpur, UP, India, 20 June, 2020.
4. **National Conference on Recent Developments in Nanoscience and Green Chemistry (RDNGC-2020)**, organized by Department of Chemistry, Gandhi Faiz-e-Aam College, Shahjahanpur, UP, India, 1-2 February, 2020.
5. **National Conference on Nano-polysaccharides for Environmental**

- Sustainability*, organized by Department of Chemistry, Jamia millia Islamia, New Delhi, India on 25 September, 2019.
6. ***National Conference on Advanced Technologies and Environmental Safety (ATES-2019)***, organized by IFTM University Moradabad, UP, India on 9-10 March, 2019.
 7. ***International Conference on Advances in Polymer Science & Technology***, organized by IIT Delhi, SBAOI-Delhi in association with Indo Italian Forum on Biomaterials and Tissue Engineering on 23-25 November, 2017.
 8. ***International Conference on Nanotechnology & STEM-ER***, held at Aligarh Muslim University, Aligarh, UP, India on 12-15 March, 2016.
 9. ***National Seminar on Advances in Plant Science Frontier: Development & Environment 'APSF-2016'***, held at Gandhi Faiz-e-Aam College, Shahjahanpur, UP, India on 26th & 27th November, 2016.
 10. ***2nd International Conference on Innovations in Chemical, Biological & Environmental Sciences (ICBCES)***, held at Swami Sukdevanand PG College, Shahjahanpur, UP, India on 12th February, 2016.
 11. ***National Seminar on Promotion of Ethics and Human Values***, at Gandhi Faiz-e-Aam College, Shahjahanpur, UP, India on 1st February 2016.
 12. ***4th National Symposium on Recent Advances in Analytical Sciences and Applications***, held at Jamia Hamdard, New Delhi, India on 9-10 Feb 2015.
 13. ***National Workshop on Advances in Polymeric Materials***, held at Department of Applied Chemistry, Aligarh Muslim University, Aligarh, India on 21-22 Sept. 2013.
 14. ***International Conference on Chemistry: Frontiers and Challenges***, held at Department of Chemistry, Aligarh Muslim University, Aligarh, India on 2-3 March 2013.
 15. ***National Conference on New Vistas in Chemistry, held at Department of Chemistry***, Aligarh Muslim University, Aligarh, India on 2-3 March 2012.
 16. ***International Conference in Chemistry of Phytopotentials: Health, Energy and Environmental perspectives (CPHEE)***, held at Dayalbagh educational Institute Dayalbagh, Agra, India on 4-6 Nov. 2011.
 17. ***National Symposium on Current Trends in Biochemical, Biomedical and Environmental Sciences***, held at Department of Biochemistry, Aligarh Muslim University, Aligarh, India on Feb. 22, 2011.

18. **International Conference on Chemistry: Frontiers and Challenges**, held at Department of Chemistry, Aligarh Muslim University, Aligarh, India during 5-6 March, 2011.
19. **National Seminar on Sustainable Agriculture and Environmental Health: Problem and Solution**, held at R. S. Government College, Shivrajpur, Kanpur on 19 Feb 2011.
20. **International conference & Exhibition on Recent Advances in Environmental Protection**, held at St. John's College, Agra during Dec. 17-19, 2009.
21. **All India Seminar on Advances in Environmental Science and Technology**, held at Z.H. College of Engineering and Technology, Aligarh Muslim University, Aligarh on 15-16 February, 2008.
28. **Seminar on Environmental Vision: Retrospect & Prospect'**, organized by Baba Saheb Dr. B. R. Ambedkar College of Agril. Engg. & Technology, C. S. Azad University of Agriculture & Technology Campus, Etawah, Feb. 28, 2004.

Details of Journals in which Papers Published

| S. No. | Journal Name | UGC Care List, India | ISSN No. | Impact Factor | No. of Paper |
|--------|---|----------------------|--------------------------------------|---------------|--------------|
| 1. | Advances in Colloid and Interface Science | Yes | 0001-8686 | 12.984 | 1 |
| 2. | Arabian Journal of Chemistry | Yes | 1878-5352 | 5.165 | 2 |
| 3. | RSC Advances | Yes | 2046-2069 | 3.36 | 1 |
| 4. | Archives of Agronomy and Soil Science | Yes | Print: 0365-0340 Online:1476-3567 | 3.092 | 2 |
| 5. | Inorganic Chimica Acta | Yes | 0020-1693 | 2.545 | 1 |
| 6. | Journal of Coordination Chemistry | Yes | Print:0095-8972 Online:1029-0389 | 1.751 | 1 |
| 7. | Central European Journal of Chemistry | Yes | Print: 18951066 Online:16443624 | 1.389 | 1 |
| 8. | Journal of Liquid Chromatography & Related Technology | Yes | Print:1082-6076 Online:1520-572X | 1.312 | 1 |
| 9. | Tenside: Surfactants Detergents | Yes | Online:2195-8564 Print: 0932-3414 | 1.049 | 2 |

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|-------------------|--|-----|---|-------|---|
| 10. | Journal of Planar Chromatography | Yes | Print:0933-4173 Online:1789-0993 | 0.856 | 8 |
| 11. | Indian Journal of Chemical Technology | Yes | Print: 0971-457X Online:0975-0991 | 0.57 | 1 |
| 12. | Journal of Environmental Science & Engineering | Yes | Print: 0367 - 827X Online:2582- 8460 | — | 1 |
| 13. | Australian Journal of Basic and Applied Sciences | Yes | Print:1991-8178 Online:2309-8414 | — | 1 |
| 14. | Pollution Research | Yes | 0257-8050 | — | 1 |
| 15. | Journal of Bioanalysis & Biomedicine | Yes | Print: 1948-593X Online:1948-593X | — | 1 |
| 16. | Archives of Applied Science Research | No | 0975-508X | — | 1 |
| 17. | Annals of Agrarian Science | No | 1512-1887 | — | 4 |
| 18. | Acta Universitatis Cibiniensis Seria F Chemia | No | 1583-5030 | — | 1 |
| Total = 31 | | | | | |

Dr. Abdul Moheman