Curriculum Vitae

Of

Dr. Syed Muzaffar Ali Andrabi

Professor and Head
Department of Applied Sciences
Institute of Technology
University of Kashmir,
Zakura Campus, Srinagar

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Born: August 14, 1968
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Qualification

- Ph.D. Chemistry, December 1995, Aligarh Muslim University, Aligarh, India
- M.Sc. Chemistry, Specialization Analytical Chemistry, August 1992, Aligarh Muslim University, Aligarh (Secured 78% marks and second position in order of merit)

Specialization

Teaching

- Spectroscopic Techniques
- Chromatographic techniques
- Other Instrumental methods of chemical analysis

Research

- Pharmaceutical Analysis
- Treatment of metal ions pollution and Bioremediation
- Non-conventional adsorbents of plant origin for metal ion adsorption.

Experience (Administrative)

- Have served as Director, University Science Instrumentation Center, University of Kashmir from 29th June 2013 to 28th June 2016

- Have served as a member of Screening Committee for the appointment of teachers in the University for many years.
- Have been a member of Central Purchase Committee of the University for many years.
- Have been Incharge of Sophisticated Analytical Instrumentation Center, USIC for the last twenty years.
- Have served as Coordinator for PGDIT (Post Graduate Diploma in Instrumentation Technology) since its inception at USIC in 2009
- Have Served as Nodal Officer for DIQA for three years from 2007 to 2010.
- Was Incharge of all the sections of USIC namely Analytical, Mechanical, Electronics, Electric and Glass blowing sections of the Center for many years.
- Conducted (as coordinator) the first ever training programme in USIC, on the repairs and maintenance of electric and electronic gadgets. held from 15th Nov. 1999 to 15th March 2000 in USIC in collaboration with Center for Adult Continuing and Extension Education, University of Kashmir.

Experience (Academic)

- July 1995 - Dec. 1996: Lecturer, Govt. College for Women, Anantnag, Kashmir.
- March 1997 – March 2006: Assistant Professor, USIC, University of Kashmir
- March 2006 – March 2012: Associate Professor, USIC, University of Kashmir.
- March 2012 - July 2017: Professor, USIC, University of Kashmir.
- Since July 2017: Professor, Deptt. Of Applied Sciences, Institute of Technology, Zakura Campus.
- Registered Research Guide in Chemistry since 1998.

Experience (Project)

- Completed as a Principal Investigator a project sanctioned by UGC (Grant amount Rs. 9.21 Lakh) entitled "Development of environment friendly, cost-effective, sustainable and locally available adsorbents of plant origin for the treatment of industrial wastewaters in Kashmir Valley".

- Currently working as a Principle Investigator on a project entitled "Spatial Distribution of groundwater quality in the Kashmir Valley with special emphasis on the heavy metal mapping" sanctioned by Science and Engineering Research Board (SERB), DST, Govt. of India on Feb 6, 2018 (proposed Grant 77 lakh).

Research Scholars guided

Ph.D./ M.Phil. 2
Ph.D./M.Phil. (presently under supervision) : 5

Member of Professional Associations/Society

Life member of

- The Indian Science Congress Association
- Indian Chemical Society,
- Indian Society of Analytical Scientists

On the panel of reviewers of the following international journals.

- Water Environment Research, Published by Water Environment Federation, Alexandria, VA, USA
- Journal of Hazardous Materials, Published by Elsevier
- African Journal of Environmental Science and Technology, Published by Academic Journals
- South African Journal of Chemistry, Published by the South African Chemical Institute
- Chinese Journal of Chemistry, Published by Chinese Academy of Sciences.
- International Journal of Phytoremediation, Published by Taylor and Francis, UK)

Conferences attended (recent ones)

- Presented a paper entitled "Kinetic spectrophotometric determination of an important pharmaceutical compound, α-methyldopa" in 46th Annual Convention of Chemists2009 and International Conference on recent research trends in chemicals sciences organized by The Indian Chemical Society, Kolkata and Vellore Institute of Technology University Vellore, TN at Vellore between 2 - 6th Dec 2009.

- Presented a paper entitled "Selective removal from aqueous solution of polyhydric phenols with hydroxyl groups on adjacent positions by adsorption on ferric antimonate in H^+ form" in International Conference on emerging trends in chemistry organized by Department

of Chemistry, University of Pune, MS between 5 - 7th Jan. 2010)

- Presented a paper entitled "Selective separation/ preconcentration of Cr, Cd, Hg and Pb from some transition metal ions on a modified inorganic ion exchange material in 6th JK Science Congress, 2010 organized by University of Kashmir And Department of Science and Technology, Govt. of Jammu and Kashmir

- Presented a paper entitled "Chelation ion chromatography on PAN loaded stannic silicate- selective separation of Cd, Hg and Pb from some transition metal ions" in International Analytical Science Congress 2010 organized by Indian Society of Analytical Scientists between 24 - 27th Nov. 2010) held at Cochin, Kerala.

- Presented a paper entitled "Potential of Dithizone sorbed titanium phosphate in the selective separation of Cr, Cd and Pb from some transition metal ions in Annual convention of Chemists and International Conference on recent advances in chemical sciences organized by The Indian Chemical Society Kolkata and School of Studies in Chemistry, P. R. S. University, Raipur, Chhattisgarh between 23-27th Dec. 2010 at Raipur.

- Presented a paper entitled "Chromatographic separation of some toxic metal ions on complexone sorbed titanium phosphate" in International Symposium on recent advances in green chemistry and chromatographic sciences organized by Indian Society of Analytical Scientists-Delhi Chapter and Manav Rachna International University, Faridabad between 12 - 14th Jan. 2012.

- Presented a paper entitled "Metal ion pollution treatment by adsorption and ion-exchange" in a UGC sponsored National Workshop on waste water treatment effluent management and its recycling organized on March 30, 2013 by Department of Chemistry, Ghandhi Memorial College, Srinagar.I also chaired a technical session in the workshop.

- Chaired a session in Two Days National Seminar on "Scope, Importance & Future Perspectives of Nanotechnology. Organized by Department of Physics, Govt. College for Women, Anantnag, Kasjmir. Funding by: J&K Higher Education Department & J&K State Science, Technology & Innovation Council Srinagar/Jammu, 18 - 03-2016 to 19-03-2016

- Delivered a lecture in Two Days National Seminar on "Scope. Organized by Department of Physics, Govt. College for Women, Anantnag, Kasjmir. Funding by: J&K Higher Education Department & J&K State Science, Technology & Innovation Council Srinagar/Jammu, 18 - 03-2016 to 19-03-2016

- Chaired a session in Ist international Conference on Recent developments in Science, Humanities and Management-2018, organized by Amar Singh College, Cluster University Srinagar, 17-04-2018 to 18-04-2018

Research Publications (in indexed and refreed journals with impact factors)

- Charge- transfer bands of some polynitroaromatics-diphenylamine systems.
  Spectrochimica Acta, 51A (1995) 733
  (Published by Elsevier Science, U.K.)

- Method for the selective spectrophotometric determination of 2,6-lutidine.
  Analytical Proceedings, 31 (1994) 361
  (Published by Royal Society of Chemistry, U.K.)

- Kinetic method of analysis for an important pharmaceutical 2, 4 dinitrophenylhydrazine.
  Analytical Proceedings, 32 (1995) 61
  (Published by Royal Society of Chemistry, U.K.)

- Determination of some polynitroaromatic compounds.
  Analytical Proceedings, 32 (1995) 223
  (Published by Royal Society of Chemistry, U.K.)

- Field method for the determination of an important pharmaceutical 2,4-dinitrotoluene.
  Analytical Proceedings, 32 (1995) 273
  (Published by Royal Society of Chemistry, U.K.)

- Analysis of an important pharmaceutical 2,4-dinitrophenylhydrazine-2, A kinetic method for specific determination.
  Analytical Proceedings, 32 (1995) 431
  (Published by Royal Society of Chemistry, U.K.)

- Solvent polarity as a function of R_f in TLC of selected nitro functions.
  Journal of Chromatographic Science., 34 (1996) 376
  (Published by Oxford University Press, UK))

- Flavonoids from *Biota semipervirens*
  Indian Journal of Heterocyclic Chemistry, 11 (2001), 87

- Effect of solvent polarity on the association constant of the charge-transfer complex between 2,4-dinitrotoluene and diphenylamine.
  Asian Journal of Chemistry 14 (2002) 1077

- A spectroscopic study of the charge-transfer complexes of nitromethane with aniline and N-alkylanilines.
  Indian Journal of Chemistry, 41A (2002) 2310
  (Published by the National Institute of Science Communication and Information Resources (NISCAIR), Council of Scientific and industrial Research (CSIR), N. Delhi, INDIA).

- Flavonoid Glucosides from *Biota semipervirens*
  Asian Journal of Chemistry, 3-4 (2002) 1627

- Synthesis, anti-inflammatory, analgesic and antioxidant properties of some tetra-substituted thiophenes.
  Journal of enzyme inhibition and medicinal chemistry, 23(6) 2008) 829 - 838
  (Published by Taylor and Francis, UK)

- Evaluation of the association constants of molecular complexes by Electronic and NMR spectroscopy -- First evidence for association constants measured by NMR spectroscopy being independent of the methods used.
  Journal of Indian Chemical Society, 86 (2009) 826-831
  (Published by the Indian Chemical Society, Kolkata, India)

- A study of kinetics of adsorption of lead and nickel ions on the sawdust of *Cordia africana*
  Journal of the Indian Chemical society, 87 (2010) 963.
  (Published by the Indian Chemical Society, Kolkata, India)

- Sawdust of lam tree (C*ordia africana*) as a low-cost, sustainable and easily available adsorbent for the removal of toxic metals like Pb(II) and Ni(II) from aqueous solution.
  European Journal of Wood and Wood Products (Holz als Roh-und Werkstoff), 69 (2011) 75.
  (Published by Springer Germany)

- Chelation Ion Chromatography on 1-(2-Pyridylazo)-2-naphthol Sorbed Stannic Silicate: Selective Separation of Cd^{2+}, Hg^{2+} and Pb^{2+} from some Transition Metal Ions
  Ion Exchange Letters, 4 (2011) 25-31
  (Published by Department of Power Engineering, Institute of Chemical Technology, Prague, Czech Republic)

- Chelation Ion Chromatography on Alizarin Red-S loaded Stannic Silicate: Selective separation of Cd^{2+} and Pb^{2+} from some Transition Metal Ions
  Indian Journal of Chemical Technology, 19 (2012) 71-74
  (Published by the National Institute of Science Communication and Information Resources (NISCAIR), Council of Scientific and Industrial Research (CSIR) N. Delhi, in association with the Indian National Science Academy).

- Kinetic Spectrophotometric Determination of An Important Pharmaceutical Compound, A-Methyldopa.
  Journal of The Indian Chemical Society, 89 (2012) 247-251
  (Published by the Indian Chemical Society, Kolkata, India)

- Selective Removal of Some Polyhydric Phenols from Aqueous Solution by Ferric Antimonate
  Water Environment Research, 84(5) (2012) 417-423
  (Published by Water Environment Federation, Alexandria, Virginia, USA)

- Metal Ion Chelation Chromatography on Dithizone loaded Stannic Silicate: Selective separation of some toxic metal ions from Fe3+ and Al3+.
  Journal of The Indian Chemical Society, 90 (2013) 87-91
  (Published by the Indian Chemical Society, Kolkata, India)

- Kinetic spectrophotometric determination of an important pharmaceutical compound, Pregabalin.
  Journal of Analytical Science and Technology, 4 (2013) 22
  (Published by Springer Korea)

  Removal of Cadmium from Aqueous Solutions by Poplar Sawdust: Equilibrium and Thermodynamic Studies.
  Research and Reviews: Journal of Chemistry, 3(4) (2014) 9 -17

- Phytoremediation Potential of Phragmites australis in Hokersar wetland- a Ramsar Site of Kashmir Himalaya.
  International Journal of Phytoremediation, 16 (2014) 1183-1191.

(Published by Taylor and Francis, UK)

- "A Study of Catalyst Preparation Methods for Synthesis of Carbon Nanotubes" Chemical Science Transactions, 5(1) (2016)

- Heavy metal sequestration by Potamogeton natans and Ceratophyllum dermersum in a Himalayan Ramsar site: management implications.
  Wetland ecology and management, 24(4) (2016) 469-475
  (Published by Springer Netherlands)

- Removal of Cu(II), Zn(II) and Cd(II) ions from aqueous solution by adsorption on walnut shell-equilibrium and thermodynamic studies; Treatment of effluents from electroplating industry.
  Desalination and Water Treatment, 57(56) (2016) 27363-27373
  (Published by Taylor and Francis, Italy)

- Adsorption capability of sawdust of Populus alba for some toxic metal ions from aqueous solution: Treatment of effluents from cement industry.
  Desalination and Water Treatment, 57(59) (2016) 29019-29035
  (Published by Taylor and Francis, Italy)

- Synthesis of Carbon Nanotubes for device applications" Asian Journal of Chemistry, 29(4) (2017) 879 -881

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