

# Curriculum Vitae

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**Imran Ali**

Ph.D., FRSC, C. Chem, London (UK)

Thomson Reuters Highly Cited Researcher

Stanford Univ. Survey Rank: 01 Indian & 24 Global (Anal. Chem.)

Professor of Chemistry

Department of Chemistry

Jamia Millia Islamia (A Central University)

New Delhi -110025

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## Websites:

Home Page: <http://jmi.ac.in/iali2>

Public URL: <https://scholar.google.co.in/citations?user=ukpmKoQAAAAJ&hl=en>

Orcid: <https://orcid.org/0000-0001-6511-8374>

Publons: <https://publons.com/researcher/1436587/prof-dr-imran-ali/>

Researcher ID: F-7710-2010

## Education:

- **Ph.D. (Chemistry) - 1990:** Department of Chemistry, University of Roorkee, now Indian Institute of Technology Roorkee, Roorkee, India.
- **M.Sc. (Chemistry) - 1986:** Department of Chemistry, University of Roorkee, now Indian Institute of Technology Roorkee, Roorkee, India.
- **B.Sc. (Chemistry, Botany and Zoology) – 1983:** Meerut University, India.

## Area of Expertise:

Innovative teaching, Technology in the classroom, Drug discovery and development, Multistep organic synthesis, Pharmaceutical analysis by chromatography and capillary electrophoresis, Sample preparation, Miniaturization in separation science, Simple and chiral separations, Chiral pollutants, Water treatment by new generation nano-adsorbents, Water splitting by nano-materials, Surfactant and Colloidal Chemistry, Executive Leadership.

### **Summary of the Expertise and Interest:**

- Over 25 years of research and teaching experience (including online) at various universities.
- Over 10 years of industrial consultant experience.
- Proven leadership skills in education, research & development. Mentored and trained undergraduate, graduate and doctorate students. Secured funding to sustain research.
- Served on various administrative committees to enhance the institutions plans and vision.
- Published more than 450 peer-reviewed articles including patents (1 approved & 4 under consideration), books (5), books and encyclopedia chapters, research papers, technical reports and conference presentations.
- Editor-in-Chief, Editor and associate editor for several journals.
- Water treatment by new generation nano-adsorbents (nanotechnology).
- Anticancer and chiral drug discovery and development.
- Pharmaceutical analysis (simple and chiral separations by chromatography and capillary electrophoresis).
- Miniaturization in sample preparation, chromatography and capillary electrophoresis.

### **Outstanding Achievements:**

- h-index 82, i10-index 259, total citations: 25500.
- Books are published with various publishers located in the USA, UK, and The Netherlands.
- Papers are published with American Chemical Society, Royal Society of Chemistry, Elsevier, Wiley & Sons, Springer, Taylor & Francis, etc. publishers.
- Papers in high impact Journals like Nature Protocol, Chemical Reviews (IF: 52).
- Chartered Chemist (C. Chem), Royal Society of Chemistry, London, UK.
- Fellow of Royal Society of Chemistry (FRSC), Royal Society of Chemistry, London, UK.
- The leading researcher in the world in the area of chiral pollutants.
- International research collaborations with leading researchers in 12 countries.

- Visited the USA, Russia, Germany, UK, Switzerland, France, Belgium, Malaysia, Saudi Arabia, Oman, UAE, Egypt, Kuwait and Nepal.

### **Teaching Disciplines:**

General, Analytical, Medicinal, Environmental Chemistry and Nanotechnology.

### **Academic Experience:**

<b>2012-Present</b>	Professor, Department of Chemistry, Jamia Millia Islamia (Central University), New Delhi -110025.
<b>2009-2012</b>	Associate Professor, Department of Chemistry, Jamia Millia Islamia (Central University), New Delhi -110025.
<b>2006-2009</b>	Reader, Department of Chemistry, Jamia Millia Islamia (Central University), New Delhi -110025.
<b>1997-2005</b>	Scientist, National Institute of Hydrology, Roorkee, India.
<b>1993-1995</b>	Post Doctoral Fellow, National Institute of Hydrology, Roorkee, India.
<b>1990-1993</b>	Post Doctoral Fellow, Department of Chemistry, Roorkee University, Roorkee, India.

### **Abroad Academic Experience:**

Scientist at King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia, 2000-2001.

Visiting Scientist at King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia, 2002-2006.

Visiting consultant AT Sultan Qaboos University, Muscat, Oman, 2009.

Visiting consultant AT Sultan Qaboos University, Muscat, Oman, 2011.

Visiting Professor at King Saud University, Riyadh, Saudi Arabia, 2013-conti...

Visiting Professor at the University of Technology, Johar Bahru, Malaysia, 2014.

## **Editorial and Advisory Services:**

### **Editor-in-Chief:**

- Current Chromatography, Bentham Science Publisher.
- Nanomedicine and Drug Delivery, Clausius Scientific Press.

### **Editor:**

- Journal of Taibah University for Science, Taylor & Francis.
- Advanced Materials & Technologies, Tambov State Technical University, Tambov, Russia.

### **Associate and Section Editor:**

- Associate Editor, Analytical Chemistry Letters, Taylor & Francis.
- Associate Editor, Fine Chemical Engineering, Universal Wiser Pub., Singapore.
- Section Editor, Current Drug Therapy, Bentham Science Publishers.
- Guest Editors of various Journals for special issues.

### **Editorial Board Member:**

- Separation & Purification Review, Taylor and Francis.
- Advanced Analytical Chemistry, Scientific & Academic Publishing, USA.
- Journal of Cancer Therapy & Research, iProbe Group, Virginia, USA.
- World Journal of Clinical Oncology, Baishideng Publishing Group Inc., USA.
- Journal of Molecular & Applied Bioanalysis, Chicago, USA.
- SM Analytical & Bioanalytical Techniques, Dover, USA.
- International Journal of Hydrocarbons, Open Access Pub, USA.
- Trends in Horticulture, EnPress Publisher, USA.
- Pharmaceuticals and Pharmacology, Global Science Library, USA.
- Annals of Biomedical Technology & Engineering, Remedy Publications, USA.
- Journal of Solid Tumors, Science Education Press, Canada.
- Current Analytical Chemistry, Medford Publisher, Canada.

- Environmental Science & Pollution Research, Springer.
- International Journal of Pharmaceutical Science, Acta Scientifica, Bulgaria.
- Biomedical Engineering, AMG Transcend Association from Romania.
- Gazi University Journal of Science, Gazi University, Turkey.
- Combinatorial Chemistry & High Throughput Screening, Bentham Science Publisher.
- Letters in Functional Foods, Bentham Science Publisher.
- Journal of Medicines Development Sciences, Whioce Publishing Pvt. Ltd., Singapore.
- Big Data & Cloud Innovation, Whioce Publishing Pvt. Ltd., Singapore.
- Hydro Science & Marine Engineering (HSME), Bilingual Publishing Co., Singapore.
- Journal of Advanced Biotechnology & Bioengineering, Synergy Publishers, UAE.
- Journal of Natural Products Research Updates, Chulalongkorn University, Thailand.
- Egyptian Pharmaceutical Journal, Academy of Scientific Research & Technology, The National Centre for Information & Documentation, Dokki, Cairo, Egypt.
- International Journal Traditional Medicine, Association of Genuine Traditional Medicine South Korea.
- Electronic Science Technology & Applications (ESTA), Universe Scientific Publisher, China.
- International Journal of Environmental Research, University of Tehran, Iran.
- International Journal of New Chemistry, South Abouzar street, Piroozi street, Tehran, Iran.
- Journal of Chemistry Letters, Iranian Chemical Science and Technologies Association, Iran.
- Journal of Ultra Chemistry, BDA Colony Kohe Fiza, Madhya Pradesh 462001, India, Bhopal, India.
- Asian Journal of Oncology, Thieme Medical and Scientific Publishers Pvt. Ltd., A-12, 2<sup>nd</sup> Floor, Sector 2, Noida, Uttar Pradesh, India.
- International Journal Water Resource & Environmental Engineering, Victoria Island, Lagos, Nairobi.
- Medical Practice Reviews, 73023 Victoria Island, Lagos, Nairobi.

- Journal of Advanced Biotechnology & Bioengineering, Synergy Publishers, UAE.

### **Peer Reviewing Services:**

- Grant reviewer for many funding agencies (national and International).
  - External reviewer for academic tenure and promotion.
  - External reviewer for master dissertation and Ph.D. evaluation for many Universities and Institutes.
  - Book Reviewer for many publishers.
  - Reviewer for more than 100 International Journals for American Chemical Society (ACS), Royal Society of Chemistry (RSC), Elsevier, Wiley, Springer, Taylor & Francis, Bentham Science, Multidisciplinary Digital Publishing Institute (MDPI) and other publishers.
  - Top Reviewer Award by Publon.
- Top reviewer in Environment and Ecology - September 2019.  
 -Top reviewer in Cross-Field - September 2019.  
 -Top reviewer in Chemistry - September 2019.

### **Honors, Scholarships and Recognition Awards:**

- Chartered Chemist (C Chem) of Royal Society of Chemistry, London, UK.
- Fellow of Royal Society of Chemistry (FRSC), London, UK.
- Brand Ambassador of Bentham Science Publisher.
- Quarterly Franklin Membership, Membership ID#XH75973; Given by the Editorial Board of London Journals Press (2020).
- Khosla Research Award-1987 by University of Roorkee, Roorkee.
- Research Advisor, American Biographical Institute, Inc., USA (2006-2012).
- Expert for evaluation of research projects, UCOST, Dehradun (From 2006-2008).
- Expert for the selection committee of SRF and RA. CSIR, New Delhi.

### **Memberships and Services in Scientific Societies:**

- American Chemical Society (ACS), USA.
- American Nano Society, USA.
- Royal Society of Chemistry, UK.
- Indian Science Congress Association, India.
- Indian Society of Analytical Scientists, India.
- Chromatographic Society of India, India.
- Indian Association for Cancer Research, India.

### **Research Grants and Contracts (Peer Reviewed):**

- 2017.....Evaluation of Aftimoon (*Cuscuta Reflexa* Roxb.) Plant and its Seeds on Different Human Cancer (Sartan) Cell Lines, AYUSH, New Delhi (September 2107 to March 2019).
- 2017.....Chiral chromatography of compounds with two asymmetric centers, DST, New Delhi, India and RFBR, Russia (From October 2017 to March 2019).
- 2013.....Mechanisms of retention and enantio-separation of chiral quinolines on enantioselective adsorbents under liquid chromatographic conditions, DST, New Delhi, India and RFBR, Russia (From October 2013 to September 2015).
- 2007.....Racemization of antifungal agents enantiomers with a benzylic proton at physiological pH - Uttrakhand State Council for Science & Technology, Dehradun (From to Jan 2007- July 2009).
- 2011.....Monitoring of arsenic in groundwater of Ballia district, Uttar Pradesh using remote sensing and GIS techniques - Ministry of Environment & Forests, New Delhi (From to Feb 2011- July 2013).
- 2005.....Assessment of water quality of 22 metropolitan cities of India - CPCB, New Delhi.(From to Jan 2005- July 2007).

### **Conferences Organized:**

- Co-Chairman, 3rd International Scientific-Practical Conference Graphene and Related Structures: Synthesis, Production, and Application (GRS-2019), 11-13 Nov., 2019, Tambov State Technical University, Tambov, Russia.
- Organizing Committee Member, National Conference on Advanced Functional Materials-2019, November 20-21, 2019, Jamia Millia Islamia Central University, New Delhi, India.
- Organizing Committee Member, 7th National Symposium and Conference on Solid State Chemistry and Allied Areas, November 24-26, 2011, Jamia Millia Islamia Central University, New Delhi, India.

### **Sessions Chaired:**

- Current regulations on herbal drugs and food supplements, Jami Hamdard University, New Delhi, India, May 16, 2017.
- Recent Advances in Chemistry, Jamia Millia Islamia, April 25, 2016, New Delhi, India.
- Second International Research Conference, 28-29 Oct. 2015, Dubai.
- India Water week 2016, April 6, 2016, New Delhi India.

### **Invited Talks:**

- Graphene is a Miracle Material for 21st Century, 3rd Intl. Scientific-Practical Conference Graphene and Related Structures: Synthesis, Production, and Application (GRS-2019), Nov. 11-13, 2019, Tambov State Technical University, Tambov, Russia, 2019.
- Origin of chirality, King Saud University, Saudi Arabia, Oct. 10, 2018.
- Social impact of chirality, King Saud University, Saudi Arabia, Oct. 10, 2018.
- How to publish papers in high impact factor Journals? Islamic Azad University, Avantipura, Srinagar, J & K, August 10, 2018.
- Future need and demand for column operations for water treatment using nanomaterials, 2nd International Scientific-Practical Conference Graphene and related structures: Synthesis, production, and application, Tombav, Russia, Nov. 15-17, 2017.
- Nano Separations, 6th International Chemistry Conference, King Saud University, Riyadh, Saudi Arabia, Nov. 8-10, 2016.
- A successful career in science: Need of the present and next centuries, University Technology Malaysia, Johor Bahru, Malaysia, Nov. 7, 2016.
- 16<sup>th</sup> Asia pacific international symposium on microscale separations and analysis, University Technology Malaysia, Johor Bahru, Malaysia, Nov. 8-11, 2016.



- Chiral drugs development by HPLC, Dubai Pharmacy College, UAE, Sept. 24, 2016.
- Need of chiral drugs and their development by HPLC, New paradigm in chemical science: Synthetic and Analytical Perspectives-2016, Punjabi University, Patiala, Punjab, India, Feb. 4-5, 2016.
- Future and prospective of smart materials, Smart Materials: Advances in Research and Techniques (SMART-2015), Solan, Nov. 27-28, 2015.
- Cancer scenario in Gulf countries and the future of nano anti-cancer drugs, Second International Research Conference, Dubai, Oct. 28-29, 2015.
- Art of publication in high impact factor Journals, Ibnai Suna Institute of Technology, University Technology Malaysia, Johor Bahru, Malaysia, Nov. 23, 2014.
- Core-shell technology, for ultra-fast separations, Department of Chemistry, University Technology Malaysia, Johor Bahru, Malaysia, Nov. 24, 2014.
- Advanced water treatment methods, Department of Chemistry, University Technology Malaysia, Johor Bahru, Malaysia, Nov. 25, 2014.
- New generation adsorbents for water treatment, NANOCAT, University of Malay, Kula Lumpur, Malaysia, Nov. 28, 2014.
- Pesticides in the environment and their analyses, Academic College, Jamia Millia Islamia, New Delhi, India, Oct. 15, 2014.
- Ultra-fast HPLC on superficially porous columns for pharmaceutical analyses, International Symposium on Current Trends and Future Prospects in Pharmaceutical Sciences, Pokhara University, Nepal, July 6-7, 2014.
- Nano-chromatography and nano-capillary electrophoresis: Current developments and need of future, Quest Pharm. Ltd., Birgang, Nepal, July 8, 2014.
- Pesticides havoc and analysis, Department of Education, Jamia Millia Islamia, New Delhi, India, May 13, 2014.
- Analyses of pesticides by advanced methods, Academic College, Jamia Millia Islamia, New Delhi, India, Dec. 2, 2013.
- Chiral drugs analyses by HPLC, Emerging trends in analytical science, IICT, Hyderabad, Nov. 27, 2013.
- Innovative technologies for fast HPLC analyses, Mahatma Gandhi University, Kottayam, Kerala, India, Nov. 5, 2013.
- Role of chromatography in separation science, Mahatma Gandhi University, Kottayam, Kerala, India, Aug. 27, 2013.

- Food: Loss, wastage and security, Environmental Day, Dr. R.M.L. Lohia University, Faizabad, June 5, 2013.
- Recent trends in ultrafast HPLC, Arab Lab., UAE, March 10-13, 2013.
- Chiral drugs development: Need of the present century, UAE University, Al-Ain, UAE, March 11, 2013.
- Nano anti-cancer drugs: Future magic medication, UAE University, Al-Ain, UAE, March 11, 2013.
- Pesticides and water quality, India water week, CWC, New Delhi, India, April 10-14, 2012.
- Smart applications of chromatography and capillary electrophoresis, Part – I, King Saud University, Saudi Arabia, June 22, 2011.
- Role of HPLC in chiral drugs development, Indian Drugs Manufacturers Association (IDMA) and Association of Pharmaceutical Analysts (APA), 11<sup>th</sup> Pharmaceutical Analysts Convention, Hyatt Regency, Mumbai, Oct. 11, 2008.
- Chiral chemistry, Dr. D.N. Patkar Memorial Seminar, University of Mumbai, Mumbai, India, Oct. 10, 2008.
- Liquid chromatography – Tool for Chiral Assessment, Dr. D.N. Patkar Memorial Seminar, University of Mumbai, India, Mumbai, Oct. 10, 2008.
- An introduction of capillary electrophoresis, Workshop on Chromatographic Techniques, Department of Chemistry, Jamia Millia Islamia (Central University), New Delhi, India, Sept. 10, 2007.
- Scientific education: A sustainable future to develop India, N.S.S. Workshop, Mussoorie, Sponsored by Uttarakhand State Science Congress, Dehradun, Aug. 11, 2007.
- In vitro and in vivo racemization of optically active drugs, First Uttarakhand State Science Congress, Dehradun, Water quality and health: An urgent need for awareness, at several villages of District Hardwar, Uttarakhand, Nov. 10-11, 2006).
- Analysis of pesticides in water, National Institute of Hydrology, Roorkee, India, April 15, 2004.
- Health and metal ion speciation, National Symposium on advanced instrumental methods of analysis, Dehradun, India, December 18-19, 2004.
- Advances in metal ion speciation by capillary electrophoresis, National Institute of Hydrology, Roorkee, India, March 10, 2003.
- Chirality: A challenge to the environmental scientists, National Symposium on advanced instrumental methods of analysis, Dehradun, India June 7-8, 2002.

### **International Collaborations:**

- Syed A. A. Rizvi, Department of Pharmaceutical Sciences, Kittrell Hall, Hampton University School of Pharmacy (HUSOP), 121 William R. Harvey Way, Hampton, VA 23668, USA.
- Leonid Asnin, Department of Chemistry and Biotechnology, Perm National Research Polytechnic University, Komsomolsky Av. 29, Perm 614990, Russia.
- M.G. Schmid, Institute of Pharmaceutical Chemistry, Karl-Franzens University of Graz, Universitätsplatz, Graz, Austria.
- G. Gubitz, Department of Analytical Chemistry, Janus Pannonius University, Ifùsàg ùtca 6, H-7624 Pècs, Hungary.
- G. Bazylak, Department of Pharmaco-Bromatology & Molecular Nutrition, Faculty of Pharmacy, Collegium Medicum, Nicolaus Copernicus University, Bydgoszcz, Poland.
- Marcello Locatelli, Department of Analytical and Bioanalytical Chemistry, University G. d'Annunzio of Chieti-Pescara; Department of Pharmacy, Via dei Vestini, 31; 66100 Chieti, Italy.
- Diana Wesselinova, Institute of Parasitology and Experimental Pathology, Bulgarian Academy of Sciences - 1113, Sofia, Bulgaria.
- Hassan Y. Aboul-Enein, Department of Pharmaceutical and Medicinal Chemistry, The National Research Centre, Dokki, Cairo – 12622, Egypt.
- Mohammed Alzabbi, Department of Pharmacology and Clinical Pharmacy, Sultan Qaboos University, Muscat, Oman.
- Mohd Marsin Sanagi, Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia, Malaysia.
- Zeid A. Al-Othman, Department of Chemistry, College of Science, King Saud University, Riyadh, Saudi Arabia.
- Norikaju Nagae, ChromaNik Technologies Inc., 6-3-1 Namiyoke, Minato-ku, Osaka, Japan.
- Ming-Fa Hsieh, Department of Biomedical Engineering, Chung Yuan Christian University, 200 Chung Pei Rd, Chung Li, Taiwan.

### **Ph.D. Work Supervised (19):**

- Mohd Farooq Naqshbandi, A Study on Novel Unani Medicinal Plants in Search of Anticancer Activities on Different Human Cancer cell lines, 2020.
- R. Vadivelan, Synthesis, characterization and biological studies of some heterocycles and their complexes, 2018.
- Mohammad Nadeem Lone, DNA binding and anticancer studies of some nitrogen and sulfur heterocyclic compounds, 2018.
- Kamlesh Kumar Dutta, Development of HPLC and UFLC methods using core-shell columns for analyses of antidiabetic, antihistamine and cardiac drugs, 2018.
- Dnyaneshwar K. Nighot, Coupling of haloarenes with terminal alkynes by using copper complexes, 2018.
- Umma Kulsum, Development of SPE-HPLC methods for analyses of  $\beta$ -blockers, profens and vitamin B complex in human plasma using new generation columns, 2016.
- Ashanul Haque, Isolation, characterization, and applications of anticancer compounds from medicinal plants, 2014.
- Saif Ali, Removal of toxic metal ions from water by using low-cost adsorbents, 2014.
- Syed Dilshad Alam, Development of SPE-HPLC methods for analyses of simple and chiral drugs in human plasma, 2014.
- Mohd. Asim, Development of electrochemical methods of arsenic removal from groundwater, 2013.
- Waseem Ahmad Wani, Syntheses, characterization and anti-cancer profiles of glutamic acid derivatives and their metal ion complexes, 2013.
- Afzal Hussain, Evaluation of chromatographic methods for analyses of simple and chiral drugs in human plasma, 2010.
- Iqbal Hussain, Development of liquid chromatographic methods of simple and chiral drugs in biological samples, 2010.
- Bhavtosh Sharma, Studies on racemization of anti-fungal agents enantiomers with a benzylic proton at physiological pH, 2010.
- Shilpi Aggarwal, Chromatographic methods development for analysis of amino acids and their PTH- and DNP-derivatives, 2009.
- Uma Negi, Chromatographic analyses of some drugs in biological samples, 2009.
- Archana Badoni, Analysis of water pollutants using chromatographic techniques, 2008.

- V.K. Saini, Removal of some toxic substances from wastewater using inexpensive alternatives to carbon, 2007.
- H.V. Pant, Analysis of some drugs in wastewater using chromatographic techniques, 2004.

#### **Master Dissertation Supervised (30):**

- Alla Elmi, Preparation of iron oxide nano-adsorbent by green technology for the removal of a toxic metal ion in water, 2019.
- Shalu Aggarwal, Synthesis of benzimidazole derivatives, characterization, molecular modeling, and DNA binding studies, 2017.
- Shikha Mankotia Synthesis, characterization, DNA binding and docking studies of Knoevenagel condensates of curcumin, 2017.
- Shabbir Ahmed Khan, Determination of contraceptives in human plasma by nano-particles based dispersive sample preparation method and high-performance liquid chromatography, 2017.
- Shalu Aggarwal, Synthesis of benzimidazole derivatives, characterization, molecular modeling, and DNA binding studies, 2017
- Khalid Naeem, Synthesis, characterization, physio-chemical properties and docking studies of pyrazoaldehydes, 2016.
- Akram Hussain, Synthesis, characterization, physio-chemical properties and docking studies of aromatic isothiocyanates, 2016.
- Asif Khan, Synthesis and application of nanocomposite adsorbent for sample preparation of quinolones antibiotics for HPLC analysis, 2016.
- Asif Khan, Synthesis and application of nanocomposite adsorbent for sample preparation of quinolones antibiotics for HPLC analysis, 2016.
- Jabeen Abbasi, Development of solid-phase membrane micro tip extraction and HPLC methods for analyses of cardiovascular drugs, 2015.
- Deepika Rani, Synthesis, characterization and utilization of nanocomposite adsorbent for sample preparation of anti-arthritis drugs for HPLC analysis, 2015.
- Imranul Haque, Separation and identification of phenolics in anti-obesity drugs by HPLC, 2014.
- Safiullah Fetrat, Synthesis, purification, and characterization of copper(II) and nickel(II) complexes of a pyrazoline based ligand, 2014.
- Shehnaz Ali, Enantiomeric resolution of atenolol and propranolol by diastereoisomeric salt formation, 2014.

- Shilpi Aggarwal, Chiral separations of salbutamol and pheniramine drugs by diastereoisomeric salts formation, 2014.
- Nidal M.I. Al-Bau, Monitoring of  $\beta$ -blockers in tablets by HPLC 2013.
- Farha, Synthesis, characterization and physico-chemical properties of pyrazolealdehydes, 2013.
- Sofi Danish Mukhtar, Synthesis, characterization, physico-chemical properties and DNA docking studies of Schiff's bases of pyrazolealdehydes, 2013.
- Mohamad Nadeem Lone, Synthesis, purification, and characterization of copper(II) and nickel(II) complexes of a pyrazoline based ligand, 2012.
- Mohd. Shabbir Synthesis, purification, and characterization of some chalcone derivatives. 2012.
- Mani Shankar Pandey, Synthesis and structure elucidation of macrocyclic complexes of Cu(II), Ni(II) and Zn(II) bearing amphiphilic arms, 2011.
- Mohd. Asad, Validation of HPLC method for analysis of triprolidine, phenylephrine and paracetamol in pharmaceutical dosages, 2010.
- Parul Goel Quality control of Profens by TLC on plain and impregnated silica gels. 2010.
- Md. Rehan, Synthesis and study of N,N'-bis (salicylidene) ethylenediamine and its metal ion complexes, 2010.
- Mohammad Tanweer, Thin layer chromatographic study of vitamin B complex in dosage formation. 2009.
- Nazia Anwar Synthesis, characterization and biological activities of anti-cancer drugs, 2008.
- Niraj Singh, Synthesis, characterization and biological activity of antiviral drugs, 2008.
- Ashraf Rather, Homochiral drug designing by racemization, 2007.
- Md. Shaukat Raza, Role of HPLC in drug development, 2007.

#### **Administrative Experience:**

- Laboratory in-charge, National Institute of Hydrology, Roorkee.
- Teacher in-charge of Laboratories, Department of Chemistry, JMI.
- Officiated as Head, Department of Chemistry, JMI.
- Assistant Superintendent of the entrance examinations, JMI.

- Member of Ph.D. and master course development committee.
- Member of the admissions committee of Ph.D. student selection committee.

### **Social Service:**

- Created awareness among public for food habits to combat cancer.
- Created awareness among public for water quality awareness and homemade water treatment in urban and rural areas.
- Delivered several lectures in meetings and conferences on awareness of cancer disease and its control in urban and rural areas.
- Donated blood on several occasions in blood donation camps.

### **Publications:**

#### **Patents:**

1. **Imran Ali** and V.D. Gaitonde, Smart solvent saving HPLC reservoir, **Patent No. 295484, IPO, New Delhi (2012).**
2. **Imran Ali**, Vinay D. Gaitonde and M.V. Narendra Kumar Talluri, Integrated through bore direct-coupled low volume HPLC guard and preparative columns unit, **IPO, New Delhi, 547/DEL/2013.**
3. A.K. Jain and **Imran Ali**, A new process for the preparation of keto oxazoline, **IPO, New Delhi, 57251/DEL/2017.**
4. A.K. Jain and **Imran Ali**, A Highly efficient synthesis for the preparation of Novel 9H-purin-2-amine derivatives **IPO, New Delhi, 45429/DEL/2018.**
5. **Imran Ali** and A.K. Jain, New process for the preparation of Novel uracil derivatives and its docking study, **IPO, New Delhi, 45408/DEL/2018.**

#### **Books:**

6. Kallenborn R., Hühnerfuss H, H. Y. Aboul Enein and **Imran Ali**, Chiral environmental pollutants, Trace analysis and ecotoxicology, **2<sup>nd</sup> Edition, Springer, Germany, In Press (2021).**
7. **Imran Ali**, Hassan Y. Aboul-Enein and V.K. Gupta, Nano Chromatography and Capillary Electrophoresis, Pharmaceutical and Environmental Analyses, **Wiley & Sons, Hoboken, USA (2009), ISBN: 978-0-470-17851-5.**
8. V.K. Gupta and **Imran Ali**, Environmental water, Advances in treatment, remediation, and recycling, **Elsevier, The Netherlands, (2012). ISBN: 978-0-444-59399-3.**

9. **Imran Ali** and Hassan Y. Aboul-Enein, Instrumental methods in metal ions speciation, Chromatography, Capillary Electrophoresis, and Electrochemistry, **Taylor & Francis Ltd., New York, USA (2006): ISBN, 0-8493-3736-4.**
10. **Imran Ali** and Hassan Y. Aboul-Enein, Chiral pollutants, Distribution, toxicity and analysis by chromatography and capillary electrophoresis, **John Wiley & Sons, Chichester, UK, (2004), ISBN: 0-470-86780-9.**
11. Hassan Y. Aboul-Enein and **Imran Ali**, Chiral separations by liquid chromatography and related technologies, **Marcel Dekker, Inc., New York, USA (2003), ISBN: 0-8247-4014-9.**

### **Chapters in Books and Encyclopaedia:**

12. **Imran Ali**, Zeid A. Alothman, Abdulrahman and Amal Mohammed Al-Mohameed, Removal of metal ions using graphene-based adsorbents, In Nanostructured materials for treating aquatic pollution, Edited by Gil Gonçalves, **Springer (2019).; DOI: 10.1007/978-3-030-33745-2\_1**
13. **Imran Ali**, Zeid A. Alothman, Abdulrahman Alwarthan and Hassan Y. Aboul-Enein, Applications of Ionic Liquids in Chemical Science, In Recent Advances in Analytical Techniques, Vol. 2, 382-412, **Bentham Science (2018)., ISSN: 978-1-68108-575-3.**
14. **Imran Ali**, Asif Ali Qureshi, Zeid A. Alothman, Abdulrahman Alwarthan, Removal of dyes from water by adsorption using nano adsorbents, **Kirk-Othmer Encyclopedia of Chemical Technology, John Wiley and Sons, Inc., USA, 1-15 (2017)., ISBN: 9780471238966; DOI: 10.1002/0471238961**
15. **Imran Ali**, Zeid A. AL-Othman, Abdulrahman Alwarthan and Hassan Y. Aboul-Enein, Capillary electrophoresis, An versatile technique in pharmaceutical analysis, In Capillary electrophoresis, Recent developments and trends in Pharmaceutical research (Edts. Suvardhan Kanchi, S., Bisetty, K., Sabala, M.I.), **The Pan Stanford Publications, Singapore (2016)., Hard copy ISBN: 10, 981477412X and Electronic copy ISBN: 13, 978-9814774123.**
16. **Imran Ali**, Iqbal Hussain, Mohd Marsin Sanagi and Hassan Y. Aboul-Enein, Chiral separation of some classes of pesticides by HPLC method, In Analytical separation Science (Eds. J.L. Anderson, A. Berthod, V.P. Estevez, A.M. Stalcup), **Vol. 2, 321-369 (2015), CRC Press Taylor and Francis, USA, ISBN: 978-1-4665-6881-5.**
17. Kishwar Saleem, Waseem A. Wani, Ashanul Haque, Archana Milhotra and **Imran Ali**, Nanodrugs, Magic Bullets in Cancer Chemotherapy, **Topics in Anti-Cancer Research, Vol. 2, 2013, 437-494., ISBN: 978-1-60805-139-7.**
18. **Imran Ali**, Afzal Hussain, Umma Kulsum and Kishwar Saleem, Chiral Pollutants, **Kirk-Othmer Encyclopedia of Chemical Technology, 1-19 (2013).**
19. **Imran Ali**, Zeid A. Al-Othman, Hassan Y. Aboul-Enein, Chiral separations by HPLC on immobilized polysaccharides CSPs, In Chiral Separations, Methods and protocol, Series, Methods in Molecular Biology, 2<sup>nd</sup> Edtn, Vol. 970 (edited by K.E. Scriba), **Humana Press, USA, Vol. 970, 127-135 (2012)., ISBN: 978-1-62703-262-9.**



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