

# Curriculum Vitae



**Specialized in:**

Analytical Chemistry, Environmental Chemistry, Food, Pharmaceutical & Nano-Chemistry



**Professor Dr. M. Jamaluddin Ahmed, FRSC**

M.Sc.(BD), PhD (India), Post Doc.(China, Greece, Australia & UK)

Chartered Scientist (EU), Chartered Chemist (UK)

**Professor (L.P.R)**

**Department of Chemistry, University of Chittagong**

**Chittagong - 4331, Bangladesh**

► **Permanent Address (Residence):**



**Professor Dr. M. Jamaluddin Ahmed, FRSC**

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 **Webpage: [https://www.cu.ac.bd/public\\_profile/index.php?ein=2087](https://www.cu.ac.bd/public_profile/index.php?ein=2087)**

 **Webpage.htm : <https://www.sites.google.com/site/jamaluddincu/>**

# Brief Curriculum Vitae

## Prof. Dr. M. Jamaluddin Ahmed, CSci. CChem. FRSC



Expertise in research based, problem based, analogy based teaching, labs, and quality assurance

Prof. Dr. M. Jamaluddin Ahmed is Professor at the Department of Chemistry, University of Chittagong (CU) since early 1981. He has bright academic and professional career. He is the former Chairman of the Department of Chemistry, CU and the former Visiting Professor at the Center of Excellence in Analytical Chemistry; University of Sindh produced 4 PhD under MoU. His main field of work is in **Analytical Chemistry, Environmental Chemistry, Food, Pharmaceutical & Nano-Chemistry**. He obtained his PhD in Analytical Chemistry from Jadavpur University, India in 1990 and worked as postdoctoral researcher in several European, Australian and Asian Universities, including Loughborough University, UK; University of Ioannina, Greece, The Queensland University, Australia and University of Chinese Academy of Sciences, Beijing. He supervised research works of more than 100 post-graduate students (12 PhD, 8 M. Phil & 90 MS students) at home & abroad. His research activities over last 40 years resulted over 180 publications in leading International Journals including 175 research publications in Peer Reviewed Journals, 1 patent, and 8 research books published by major European Presses with total impact factor 318.6, number of citations 5615, h-index 35 and i10 index 155 (Web of Science). He has participated several International and National Conferences at home and abroad and presented 61 research articles as Theme, Plenary, Keynote and Invited Lectures & Conducted the 30 Technical Sessions as Chair. Prof. Ahmed has been honored many Fellowships and Awards including elected Fellow -- Life Member of Royal Society of Chemistry (FRSC), elected Life Member (honorary) of American Chemical Society, Elected Member of Analytical Division of IUPAC, ACS and RSC. He was Awarded Chartered Scientist (CSci.) by European Science Council (EU) in 2003 and Chartered Chemist (CChem.) by Royal Society of Chemistry (UK) in 1993.

## At a Glance

### Latest Achievements:



Elected as a Fellow Life Member of Royal Society of Chemistry (UK), 2020,  
Became Chartered Chemist. FRSC (UK) since 2001



Elected as a Life Member (honorary) of American Chemical Society (USA), 2019



Elected Member of COMSTech of OIC in 2020



ACS



Elected Member of Analytical Division of IUPAC in 2018 and ACS in 2019, respectively.



Appointed Executive Editor of "The Chittagong University J. of Science" for 2018 - 2019 by



University of Chittagong in 2018, Editor: J. of "Eurasian Chemical Communications" in 2020

### Quick Links:



Linkedin: <https://bd.linkedin.com/in/prof-m-jamaluddin-ahmed-2bbb4432> ;



Recharchgate: [https://www.researchgate.net/profile/M\\_Ahmed10/publication](https://www.researchgate.net/profile/M_Ahmed10/publication);



Publons: <https://publons.com/researcher/1334835/m-jamaluddin-ahmed/>



Facebook: <https://www.facebook/public/drmjahmed83@gmail.com> ;



Orchid: <https://orcid.org/0000-0002-3765-066x>



Google Scholar: <https://scholar.google.com/citations?hl=en&user=76vdY9AAAAAJ> ;



PA:Kudos: [https://www.growkudos.com/profile/prof.\\_dr.\\_m.\\_jamaluddin\\_ahmed](https://www.growkudos.com/profile/prof._dr._m._jamaluddin_ahmed)



Webpage: [https://www.cu.ac.bd/public\\_profile/index.php?ein=2087](https://www.cu.ac.bd/public_profile/index.php?ein=2087)



: <https://www.sites.google.com/site/jamaluddincu/>



### Publications:

Published 175 quality research papers in Peer Reviewed along-with High Impact Journals and 8 Books Published in Foreign Publishers and delivered more than 61 Plenary, Keynote & Invited Lectures in several international conferences at home and abroad

### Scientific Facts:

- Citations – 5615
- h – Index -- 35
- i10 – Index -- 155
- Scopus Author ID -- 82479794137
- Total Impact Factor – 318.6
- Average I. F. = 2.55

### Professional Career

- Lecturer in Chemistry at CU – 1981 – 1984 = 3.8 years
- Assistant Professor at CU – 1985 – 1992 = 7.2 years
- Associate Professor at CU – 1992 – 1995 = 3.0 years
- Professor of Chemistry at CU – 1995 – 2020 = 25 years

► Total Teaching & Research Experiences from 1981-2020 = 40 years

# A Detailed Curriculum Vitae

## Personal Biodata:

1. **Name** : **Professor Dr. Md. Jamaluddin Ahmed, BSc MSc PhD CSci. CChem. FRSC.**
2. **Surname** : **AHMED**
3. **Father's Name** : Late Md. Dogan Ali
4. **Date of Birth** : May 24, 1955, Birth Place: Brahmanbaria, Bangladesh
5. **Nationality & ID No.** : Bangladeshi (by birth)
6. **National ID Card # No.** : **2832264242 (Smart NID)**
7. **Passport Number** : BY 0986284, Date & Place of Issue: 14.07.2019, Chittagong. Bangladesh
8. **Marital Status** : Married with 2 Daughters (Dr. Antara & Dr. Ananna; Grandson: Ahyaan)
10. **Language** : Fluent in Oral and Written English,  
Posses' working knowledge of Hindi, Urdu, Greek, Chinese and Arabic.
11. **Religion** : Islam. Sex : Male (Sunni)
12. (a) **Permanent Address** : Professor Dr. M. Jamaluddin Ahmed  
G-4, Keri Elysium, Parade Corner,  
Chawkbazar, Chittagong-4203, Bangladesh  
Fax: +88-031-2606014, Telephone:+88-031-618236, Cell No.:+88- 01715001800  
E-mail : [pmjahmed55@gmail.com](mailto:pmjahmed55@gmail.com)  
[drmjahmed83@gmail.com](mailto:drmjahmed83@gmail.com)  
Webpage: <https://www.sites.google.com/site/jamaluddincu/>
- (b) **Present Address** : C/o. Dr. Asma Jamal Antara, Flat No. 104, Bhaban No.3, NAM Garden Govt.  
Officer's Quarters, Mirpur – 13, Dhaka – 1216, Bangladesh, Cell: 01717587933
13. **Office Address** : Professor (L. P. R.), Department of Chemistry  
University of Chittagong, Chittagong - 4331  
Bangladesh, Phone : +88-031-2606001-10 Ext. : 4302(Off), 618236(Res.)  
Fax : 880-31-2606014, Mobile : +88 01715 001800

## 14. Academic Careers:

Degree	Year of Passing	Board / University	Division / Class / Award
S. S. C. (Science)	1970	Comilla Board	First Division with Star Marks (Distinction in Math. Phys. Chem. )
H. S. C. (Science)	1972	Comilla Board	First Division with Star Marks (Distinction in Math. Phys. & Chem.)
B. Sc. (Honors)	1976 (held in 1978)	Chittagong University	Second Class Honors: <b>Chemistry</b> , Minor: Phys. & Math.
M. Sc. (Thesis)	1977 (held in 1980)	Chittagong University	First Class (2 <sup>nd</sup> Position) (Physical-Inorganic Branch)
Ph. D. (Science)	1990 (1986 - 1986)	Jadavpur University, Calcutta, <b>India</b>	Awarded in Analytical Chemistry, Title of Thesis: "Spectrofluorimetric Determination of Some Toxic & Geno-toxic Inorganic" <b>Govt. of India Scholar.</b>
Post Doctoral Fellow	2000-2001=1year	Loughborough University, <b>UK</b>	Title: Separation Sciences: "Separation and Determination of Glycosides, Amino acids and Protein by HPLC" as a <b>Commonwealth Fellow</b> (Supervisor: Prof. R. M. Smith)
Post Doctoral Fellow	1995-1996=1year	University of Ioannina, Ioannina, <b>Greece</b>	Title: "Simultaneous Determination of Speciation of Some Toxic and Heavy Metals by FIA Using Photometric & Fluorimetric Detectors" as a <b>Greek Govt. Fellow</b> (Supervisor: Prof. M.I. Karayannis)
Chartered Chemist & Fellow	2001	Royal Society of Chemistry ( <b>UK</b> )	Admitted ( <b>Elected</b> ) as a <b>CChem. FRSC (UK)</b> <b>Fellow-Life Member of RSC(London)</b>
Chartered Scientist	2003	European Science Council of European Union ( <b>EU</b> )	Admitted ( <b>Elected</b> ) as a <b>Chartered Scientist (CSci.)</b>

## 15. Scholarships and Fellowships:

1. Merit Scholarship from University of Chittagong during B. Sc.(Honours) and M.Sc. Classes during 1973-1977.
2. Govt. of India Scholarship for pursuing PhD Course at **Jadavpur University, India** during 1986-1989.
3. S.S.F. of Greece Fellowship for pursuing Post Doctoral Research at **University of Ioannina, Greece** during 1995 – 1996.
4. Commonwealth Science Council Fellowship for pursuing Post Doctoral Research at **The Queensland University, Australia** in 1997
5. UNESCO Fellowship to pursue Training Program on the Field Oriented Analytical Chemistry at IIT Madras, **India** in 1999
6. Commonwealth Commission Fellowship for pursuing Post Doctoral Research at **Loughborough University, UK** during 2000 - 2001
7. TWAS Fellowship for pursuing Post Doctoral Research at University of Chinese Academy of Sciences, **Beijing**, in 2006
8. TWAS Fellow Ship for pursuing Post Doctoral Research at University of Chinese Academy of Sciences, **Beijing** in 2009



## 16. Employment History

Post	Institution	Period(From – To)	Nature of Duties
Lecturer	Department of Chemistry University of Chittagong	1 April, 1981 -29 Dec. 1984 = <b>3.75 years</b>	Teaching of Chemistry at under- and Post-graduate Levels. Supervising the Research Works of M.Sc. research students
Assistant Professor	Department of Chemistry University of Chittagong	30,Dec. 1984 -24 June, 1992 = <b>8.00 years</b>	Teaching of Chemistry at under- and Post-graduate classes. Supervising the Research Works of postgraduate students and Administrative works.
Associate Professor	Department of Chemistry University of Chittagong	25 June.1992 -22 Nov, 1995 = <b>3.5 years</b>	Establishment of Analytical Lab for Post-graduate Research. Teaching , Research and Administration
Professor	Department of Chemistry University of Chittagong	23 Nov. 1995 – till June, 2020 = <b>25 years</b> <b>Total= 3.75+8.00+3.5+25</b> = <b>40.25 years</b>	Theoretical & Practical Teaching of Analytical & Environmental Chemistry at under- and Post-graduate Levels. Supervising the Research Works of PhD, M. Phil & MS. research students and several Administrative Works.
Professor and Chairman	Department of Chemistry University of Chittagong	6 June, 2010 – 5 June, 2013 = <b>3 (Three) years</b>	Establishment of Advanced Chemistry Research Laboratories Using JDCF Project of Govt. of Bangladesh BD Taka 80 million for Post-graduate Research. Construction of 4 Storied Building for Advanced Chemistry Research Labs by BD Taka 25 million and Purchasing Sophisticated Instruments by BD Taka 55 million & Administrative Works in different Forums of the University.
Visiting Professor (honorary)	Center of Excellence in Analytical Chemistry, University of Sindh, Pakistan	July, 2003 - June, 2013 = <b>10 years</b>	During his visits there he has actively participated in postgraduate research in Analytical Chemistry which included lectures and supervision of PhD research Fellows and produced 4 PhD with several International Publications to his credit.
Professor (L.P.R.)	Department of Chemistry University of Chittagong	24 May, 2020 -- Up-to-date	-----

## 17. Foreign Scientific Training:

Period From - To	Name and place of Institution	Purpose of Stay	Finance by	Name and Address of Supervisor
January,1986 – October, 1989 = 3.5 years	Jadavpur University Calcutta, <b>India</b>	For pursuing PhD Course	Govt. of India Scholarship	Prof. B.K. Pal, Dept. of Chemistry , <b>Jadavpur University</b> , Calcutta -32, <b>India</b>
February1995 – February,1996 =1 (One) year	University of Ioannina, Ioannina, <b>Greece</b>	For pursuing Postdoctoral Research	S.S.F. of Greece Fellowship	Prof. M.I. Karayannis, Dept. of Chemistry , <b>University of Ioannina</b> , <b>Greece</b>
Mar–Aug,1997 = 6 months	The Queensland University, Brisbane, <b>Australia</b>	Pursuing Postdoctoral Research	Commonwealth Science Council Fellowship, UK	Prof. M. R. Moore, Director, National Research Centre for Environmental Toxicology. <b>The Queensland University</b> , <b>Australia</b>
Nov.-Dec.1999 = 2 months	IIT, Madras, <b>India</b>	Academic Visitor	UNESCO Fellowship	Prof. N. Balasubramanian, Dept. of Chemistry, <b>IIT, Madras</b> , <b>India</b>
October,2000 – September2001 = 1(One) year	Loughborough University, <b>U.K.</b>	For pursuing Postdoctoral Research	Commonwealth Commission Fellowship ,UK	Prof. R. M. Smith, Dept. of Chemistry, <b>Loughborough University</b> , <b>U.K.</b>
April-June,2006 = 3 (Three) months	Institute of Chemistry, CAS, Beijing, <b>China</b> .	For pursuing Postdoctoral Research	TWAS Fellowship, Trieste, Italy	Prof. Yi Chen, Institute of Chemistry, <b>University of Chinese Academy of Sciences</b> , Beijing, <b>China</b>
April-June,2009 3 (Three) months	Research Center Eco-Environmental Sciences, <b>China</b>	For pursuing Postdoctoral Research	TWAS Fellowship, Trieste, Italy	Prof. Liang-Hong Guo, Research Centre for Eco-Environmental Sciences <b>University of Chinese Academy of Sciences</b> , Beijing, <b>China</b>
February,1995 = 1 (One) month	National Physical Laboratory, CSIR, New Delhi, <b>India</b>	"Asian Workshop & Training Course on Methane Studies"	Commonwealth Science Council Fellowship, UK (Under CREN)	Dr. D. C. Parashar, Deputy Director, <b>National Physical Laboratory</b> , <b>CSIR</b> , Pusha, New Delhi-110012,, <b>India</b>

► Prof. Ahmed has attended and gained knowledge form more than a dozen Workshops, Short course & Training programs at home and abroad (Please see the Appendix – 3)

## 18. Skills and Expertise in following Instrumental Techniques:

(i) UV-Vis Spectrophotometry (ii) Spectrofluorimetry (iii) F-AAS, GF-AAS & AHG-AAS (iv) ICP-OES (v) ICP-AES (vi) ICP-MS (vii) <sup>1</sup>HNMR & <sup>13</sup>NMR (viii) FTIR (ix) GC-FID & GC- MS (x) HPLC (xi) HPCE (xii) LC-MS/MS (xiii) Normal & Pluse Polarography, ASV, DSV & Cyclic Voltammetry (xiv) Flow Injection Analysis(FIA) (xv) Thermal Analysis(DTA)

## 19. Scientific Achievements of Prof. Dr. M. Jamaluddin Ahmed, CSci. CChem. FRSC



Expertise in research based, problem based, analogy based teaching, labs, and quality assurance

- Prof. Ahmed has 40 years *Teaching and Research Experience*. He supervised Research works of more than 100 post-graduate students (12 PhD, 8 MPhil & 85 MS students) at home & abroad. (Please see the Appendix-4). Department of Chemistry, CU has several MOU (Memorandum of Understanding) with National and International Organizations and Universities under his leadership to enhance the research scope and make expertise.

- **Teaching Expertise:**

For more than forty (40) years Prof. Ahmed has trained more than 5000 students in home and abroad lecturing and demonstrating at under- and postgraduate levels on all fields of Analytical Chemistry (Qualitative-, Quantitative- and Instrumental Analysis), Method Development and Validation using Modern Spectroscopic Techniques (AAS, ICP-MS, ICP-OES, Spectrophotometry, Spectrofluorimetry, FIA, etc.). Separation Sciences (separation and determination of toxic metals, carbohydrates, glycosides, amino acids and protein by HPLC, HPCE, GC-MS and LC-MS/MS). Arsenic contamination in groundwater of Bangladesh: causes, effects & remedy. Environmental Analytical Methods, Statistical Methods of Analysis, Sampling and Sample Preparation Techniques, Electro-analytical Techniques. Automated and Automatic Analysis. Thermal Analysis, Food Safety and Nutrient Analysis and Nanotechnology. Laboratory Accreditation ISO 17025, Quality Assurance and Quality Control and Inter-laboratory Studies.

- **Research Expertise:**

(i) Prof. Ahmed worked for more than 40 years on the Development, of new Analytical Methods based on Modern Spectroscopic Techniques (AAS, ICP-MS, ICP-OES, Spectrophotometry, Spectrofluorimetry, FIA, etc.), Electroanalytical (normal & pulse Polarography, Cyclic Voltammetry, ASV with glassy carbon electrode, etc.) , Bioanalytical and Kinetic Methods for Trace and Ultra-trace Determination of Essential, Toxic and Heavy metals in different Matrices ii) Introduction of suitable new analytical reagents thorough novel reaction techniques iii) Introduction of suitable surfactants in Analytical Chemistry. iv) Separation Sciences: Analytical method development for emerging contaminants in different foodstuffs using GC-MS, LC-MS/MS, HPLC, HPCE, etc. v) Physicochemical assessment of surface- and groundwater resources of Bangladesh vi) Chemical assessment of gaseous pollutants, particulate matters and trace- metals in the air of major cities of Bangladesh vii) Development of Photoelectrochemical Sensors for the Detection of DNA Damage Induced by Some Nano-particles, viii) Food, Pharmaceutical and Environmental Analysis at Femto- & Atto-trace Levels. Green and Nano-Chemical Analysis. His research was supported and funded by many European and National sources

- **Publications:**

More than 175 **Research papers** have been published in International peer reviewed Journals of Analytical Chemistry, Environmental Chemistry and pharmaceutical Chemistry and of high Impact numbers. He has participated several International and National Conferences, Seminar, Symposiums and Workshops at home and abroad and presented 61 research articles as Theme, Plenary, Keynote and Invited Lectures & Conducted the 30 Technical Sessions as Chair (Please see the Appendix-2). He is author of **Seven** Research Books have been published by Lap Lambert, Academic Publisher. Saarbrücken, **Germany, Brussels, EU** and Book Publishers International, London, **UK**, respectively and **one country paper** has been published in the Book entitled "Nutrient Analysis in Water and Wastewaters", Ross Sadlers and Dan Wruck (Eds.). Published by Commonwealth Science Council, London, **2001**. **3 more books** under in Process for Publications. His research work was cited by the more than 5000 other Scientists and 25,000 readers (Please see the List of most recent and frequently Cited Papers in the Appendix-I).

- **Patent:**

Ahmed, MJ. and Smith, RM. "Extraction of Stevioside from Stevia Rebaudiana Bertoni: An alternative Sugar Replacer", **British Patent No. GB 2352435**.

- **Books Published:**

1. M. Jamaluddin Ahmed and Shaifa Abrarin, "**Vanadium: Chemistry, Biochemistry, Toxicology and Its Analytical Chemistry**", Ludmila Manev (Editor), ISBN-13: 978-620-2-79809-9, ISBN-10: 6202679809, EAN: 9786202798099, **LAP LAMBERT Academic Publishing, Brussels, Belgium, European Union, 2020**, pp.1 -169
2. M. Jamaluddin Ahmed and Tasnima Zannat, "**Spectrophotometric Determination of Some Essential and Toxic Elements**" Reinis Rauda (Editor), ISBN -13: 978-620-2-79545-6, ISBN-10: 620279545X, EAN: 9786202795456, **LAP LAMBERT Academic Publishing, Brussels, Belgium, European Union, 2020**, pp.1 -282
3. M. Jamaluddin Ahmed and Ayesha Afrin, "**Spectrofluorimetric Determination of Some Toxic and Geno-toxic Inorganic**" Ludmila Manev (Editor), ISBN -13: 978-620-2-67537-6, ISBN-10: 6202675373, EAN: 9786202675376, **LAP LAMBERT Academic Publishing, Nordersted, Germany, European Union, 2020**, pp.1 -208

4. **M. Jamaluddin Ahmed** and S. Rahinum Nahar, “**Theory and Application of Chemistry**” **Dr. Syed A. A. Rizvi (Editor)**, ISBN: 978-93-89246-09-4 & eISBN: 978-93-89246-52-0, **Book Publisher International**, Reagent Park, London, WIB 3HH, UK, 2019, pp. 1 – 255
5. **M. Jamaluddin Ahmed** and M. Khorshed Ali, “**Air Quality in the Chittagong City – An Integrated Assessment**”, **Editor: Martin Brooks**, ISBN: 978-3-659-94207-5, **LAP LAMBERT Academic Publishers**, 66121 Saarbrücken, Germany, 2016, pp. 1-338.
6. **M. Jamaluddin Ahmed** and M. Nazrul Islam, “**The Most Dangerous Job on the Planet – Ship-breaking in Bangladesh**”, **Editor: Martin Brooks**, ISBN:978-3-659-91868-1, **LAP LAMBERT Academic Publishers**, 66121 Saarbrücken, Germany, 2016, pp. 1-202.
7. **M. Jamaluddin Ahmed** and M. Reazul Hoque, “**Physicochemical Assessment of Surface and Groundwater Resources in the Division of Chittagong - Bangladesh**”, **Editor: Alexander Boubetrin**, ISBN:978-3-8484-9482-8, **LAP LAMBERT Academic Publishers**, 66121 Saarbrücken, Germany, 2012, pp. 1-263.
8. **M. Jamaluddin Ahmed**, “**Non-extractive Spectrophotometric Determination of Nutrients in Water and Wastewater Samples**”, In **Nutrient Analysis in Water and Wastewater**, Ross Sadler and Dan Wruck (Eds.), ISBN: 978-3-659-91868-1; Number: 141196, **Commonwealth Science Council, Commonwealth Secretariat, London, UK**, 2001, pp. 81 – 90

## 20. Current Research Interest:

- i) Introduction of suitable new analytical reagents thorough novel reaction techniques
- ii) Development of new analytical methods for the trace and ultra-trace determination of essential, toxic, genotoxic, heavy and carcinogenic elements and substances in environmental, biological, soil, food & pharmaceutical samples using manual and automated instrumental techniques (e.g. ICP-OES & ICP-MS, AAS, FIA, Spectrofluorimeter, UV/Vis-Spectrophotometer, Anodic Stripping Voltammeter, etc)
- iii) Introduction of suitable surfactants in Analytical Chemistry to avoid tedious and time-consuming solvent extraction procedures(e.g.to avoid toxic and carcinogenic organic solvents)
- iv) Separation Sciences(separation and determination of toxic metals, carbohydrates, glycosides, amino acids and protein by HPLC, HPCE , GC, GC-MS and LC-MS/MS )
- v) Physicochemical assessment of surface- and groundwater resources of Bangladesh(by AAS, ICP-MS)
- vi) Chemical assessment of gaseous pollutants, particulate matters and trace- metals in the air of major cities of Bangladesh (using Spectrophotometry, Spectrofluorimetry, GC-MS, AAS, etc.)
- vii) Food Safety and Security Analysis and Managements by maintaining International Standard ISO -17025.
- viii) Quality Control and quality assurance of Pharmaceutical analyses at Femto- & Atto-trace Levels by ISO-17025
- ix) Measurement of methane emission from wet-land and paddy field of Bangladesh (by GC, GC-MS).

## 21. Honours and Awards:

- Prof. Ahmed got prestigious “**best paper BAAS Award**” from **President of Bangladesh** in **1994** & “**Certificate of Merit Award**” in “*The 18th Asian Chemical Congress (18<sup>th</sup> ACC)*” which was held at **Taipei, Taiwan** in **2019**
- Nominated as a Country Representative to attend and delivered Country Paper in the “*International Workshop on Nutrient Analysis in Water and Wastewater*” at **Brisbane, Australia** by the Ministry of Science & Technology, Govt. of Bangladesh during 11-17 March, **1997**.
- Nominated as a Country Representative to attend the “Asian Workshop & Training Course on Methane Studies” under CREN Project at National Physical Laboratories, CSIR, **New Delhi, India** by the Ministry of Science & Technology, Govt. of Bangladesh during 1-28 February, **1995**.
- Nominated as a Country Representative to attend the “UNESCO Training Course on Analytical Chemistry” at **IIT Madras, India** by the Ministry of Science & Technology, Govt. of Bangladesh & UNESCO, Dhaka during November – December, **1999** in **India**
- He was awarded for “**The CSIR best Paper Award**” in the *International Conference on Environmental Science* Organized by Regional Research Laboratory (CSIR), **Trivandrum, India**, December 2-4, **1998**.
- Prof. Ahmed got “**RSC best Paper Award**” at **Birmingham** in **2001**. He got best awards for the best research Paper Presentations from **India, Turkey, Pakistan, Nepal, Sri Lanka and Taiwan** in **1999, 2012, 2014 & 2018, 2018, 2018, 2019**, respectively.
- “**The Most Cited Article Award**” in April, **1995**, **Talanta**, Elsevier and in August, **2020**, **American Journal of Analytical Chemistry**, Scientific Research Publishing (USA), number of Citations was **486**.
- He was Awarded for best Researcher by the **Analytical Division of Royal Society of Chemistry, UK** during **2003 - 2005 & 2008 - 2010** for the Development of Personal Researches.





## 22. Testimonials from Eminent Scientists in Analytical Chemistry (Referees):

Professor M. Jamaluddin Ahmed is one of the World-wide leading Scientists in Analytical Chemistry. He has received great remarks from following Eminent Scientists in the field of Analytical Chemistry.

<p><b>1. Professor Roger M. Smith</b> Emeritus Professor of Analytical Chemistry</p>  <p>Loughborough University, Loughborough Leicestershire, LE11 3TU, UK E;mail: <a href="mailto:R.M.Smith@lboro.ac.uk">R.M.Smith@lboro.ac.uk</a> Phone: +44 (0) 1509222550</p>	<p><b>2. Professor M. I. Karayannis</b> Emeritus Professor of Analytical Chemistry</p>  <p>University of Ioannina Ioannina – 45 110, Greece E-mail: <a href="mailto:mkaragia@cc.uoi.gr">mkaragia@cc.uoi.gr</a> Mobile: +30 6977476655</p>
<p><b>3. Prof. Osman Yavuz Ataman</b> Emeritus Professor of Analytical Chemistry</p>  <p>Department of Chemistry Middle East Technical University, Ankara, Turkey. E-mai: <a href="mailto:ataman@metu.edu.tr">ataman@metu.edu.tr</a> Phone: +90 -312-210200</p>	<p><b>4. Professor Dr. Michael Ritchie Moore</b> Emeritus Professor of Chemical Toxicology</p>  <p>National Research Center for Environmental Toxicology The University of Queensland 39 Kassel Road, Cooper Plains Brisbane-4108, Australia Phone: +61-7-33651111 / 34432443 E-mail: <a href="mailto:m.moore@uq.edu.au">m.moore@uq.edu.au</a></p>
<p><b>5. Prof. M. Iqbal Bhangar</b> Professor &amp; Ex-Director</p>  <p>Center of Excellence in Analytical Chemistry University of Sindh, Jamshoro, Pakistan E-mail: <a href="mailto:dbhangar2000@gmail.com">dbhangar2000@gmail.com</a> Mobile: +92-3332724217</p>	<p><b>6. Dr. D. C. Parashar</b> Emeritus Scientist of Environmental Chemistry</p>   <p>National Physical Laboratory, CSIR Dr. K.S. Krishnan Marg, Pusha New Delhi – 110012, India Phone: +91-11-45609301, Fax: +91 11 45609310 E-mail: <a href="mailto:dcparashar@nplindia.org">dcparashar@nplindia.org</a></p>
<p><b>7. Professor Dr. Yi Chen</b> Professor and Chair Department of Analytical Chemistry</p>  <p>College of Chemistry University of Chinese Academy of Sciences Beijing-100049, P. R. China E-mail: <a href="mailto:chenyi@iccas.ac.cn">chenyi@iccas.ac.cn</a> Mobile: 010-6268240</p>	<p><b>8. Prof. Dr. Ling-Kang Liu</b> Emeritus Professor of Analytical Chemistry</p>  <p>Academia Sinica National Taiwan University Taipei, Taiwan E-mail: <a href="mailto:liuu@chem.sinica.edu.tw">liuu@chem.sinica.edu.tw</a> Mobile: +886-2-27831237</p>

## 22(a). Local Referees:

<b>1. Prof. Dr. Mohammad Alauddin</b> Jessore University of Science & Technology Ex-Vice Chancellor of Islami University, Kustia -7003 & Ex-Professor of Chittagong University (Direct Teacher) Freedom Fighters Bir Protik Bangladesh E-mail: <a href="mailto:malauddin.kst@gmail.com">malauddin.kst@gmail.com</a> Cell No.: +8801740981666	<b>2. Chowdhury M. Zakaria</b> Pro-Vice Chancellor University of Rajshahi Rajshahi – 6205, Bangladesh E-mail: <a href="mailto:chowdhuryzakaria@yahoo.com">chowdhuryzakaria@yahoo.com</a> Cell: +8801710968638	<b>3. Prof. Dr. Altaf Hussain</b> Academic Advisor Bangabandhu Sheik Mujibur Rahman Maritime University, Plot-14/06, 14/23 Pallabi, Mirpur-12, Dhaka-1216 Professor (Retired) Department of Chemistry University of Dhaka, Bangladesh E-mail: <a href="mailto:adviser.ac@bsmrmu.edu.bd">adviser.ac@bsmrmu.edu.bd</a> Cell:+8801552421909
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## 23. Professional Responsibilities (Editorial Positions, Reviewers & PhD Examiners):

- ▶ **Executive Editor:** The Chittagong University Journal of Science during 2018 – 2020 (Publish by CU)
- ▶ **International Editor:** Pakistan Journal of Analytical and Environmental Chemistry since 2004 (NCEAC)
- ▶ **International Editor:** J. of "Eurasian Chemical Communications" from 2020 up-to-date (Published by Iran)
- ▶ **International Editor:** International Research Journal of Chemistry and Environment (Published by MP, India)
- ▶ **International Editor:** Chemical and Environmental Research (Published by AMU, India) since 1992
- ▶ **International Editor:** Journal of Pakistan Chemical Society (Published by Chemical Society of Pakistan)
- ▶ **Editor (Member of Editorial Board):** Journal of Bangladesh Chemical Society (Published by BCS) since 2016
- ▶ **Reviewers:** Analytical Chemistry, Analytica Chimica Acta, Talanta, Analyst., Analytical Method, RSC Advances, Analytical Sciences, Analytical Chemistry, etc.
- ▶ **M. Phil. and PhD Examiners:** CU, DU, RU, JU and CoU of Bangladesh: DU, MU, AMU, BHU, TU and Jad. U. of India; SU, KU, BZU, KAU, PU and PoU of Pakistan; KAU and KFU of Saudi Arabia.

## 24. Research Grants and Awards:

- Prof. Ahmed has successfully completed the **Several Research Projects of Ministry of Science and Technology in 2002, 2009, 2011 & 2013**, respectively and **Established an Excellent Analytical Laboratory for Postgraduate Research.**
- He has completed several Research Projects of **UGC and University of Chittagong in 2005, 2007, 2011 & 2015.**
- Awards:** He has successfully completed the **Research Fund Grants of Royal Society of Chemistry Awarded in 2003 -2005 & 2008 - 2010 for the development of personal research of him.**
- Prof. Ahmed has successfully completed **JDCF Project of BDT 8 Cores from Ministry of Education, Govt. Of Bangladesh** for the "Modernization of Laboratories for Advanced Research in Chemistry" Established well Equipped Modern Advanced Research Laboratories by purchasing Sophisticated Instruments.

## 25. Administrative Responsibilities:

- Chairman, Department of Chemistry, University of Chittagong from 6 June, 2010 to 5 June, 2013**  
Total=3 years, **Administrative Works of different Forums of Chittagong University. Constructed a 4(four) storied Building** for Laboratories for Advanced Research in Chemistry and by purchasing Sophisticated Instruments using BD Taka 5.5 cores.
- Academic Council Member of Chittagong University since 1995 and Member of faculty of Science since 1992.
- Planning and Academic Committee Member since 1981,
- Chairman and Member of different Examination Committees of Under- and Post-graduate Examinations.
- Branch Head of Inorganic Chemistry Branch since 1915** and senior most teacher in Chemistry since 1915
- Member of the Selection Committees:** CU, CUET, KU, AMU, Jad.U.MU, SU, KU, BZU,PU and KAU.
- Acting Dean and Provost for several periods in the Faculty of Science and Shahjalal Hall, respectively.
- House Tutor of Shahjalal Hall from 1981 to 1992 (except 1986-1989).

## 26. Member of Learned Societies:

- Elected as a Fellow Life Member (FRSC) of Royal Society of Chemistry since 2001
- Elected as a Life Member (honorary) of American Chemical Society, 2019
- Elected Fellow Life Member of World Researchers Association (FWRA) since, 2000
- Elected Members of Analytical Division of IUPAC, RSC and ACS, respectively since 2016
- Elected Fellow life Member Institute of Instrumental Engineers and Technologists of India, since 1990
- Elected Fellow of TWAS & UNESCO since 1999
- Elected Life Member of National Institute of Technologists in Universities in Bangladesh (NITUB) since 2017
- Elected Life Member of Bangladesh Chemical Society (BCS) since, 1985
- Elected Life Member of Bangladesh Association for Advancement of Sciences (BAAS) since 1990
- Elected Life Member of Bangladesh Computer Association (BCA) since 1991
- Elected Life Member of Bangladesh Society for Biochemistry and Molecular Biology (BSBMB) since 2010
- Elected Life Member of Bangladesh Biodiversity Society (BBS) since, 2016
- Elected Life Member of Bangladesh Environmental Science Society (BSS) since, 2012



## 27. Courses Taught:

Analytical, Bio-analytical, Environmental, Pharmaceutical, Green, Clinical, Food, Industrial, Inorganic, Physical, Organic, Materials, Marine-, Bio- & Nano-Chemistry at undergraduate and postgraduate levels.

## 28. Organizer of the Following National and International Conferences/ Workshops/Olympiads:

- **Organizing Secretary:** “Bangladesh - Iran - Pakistan- International Conference on Analytical Sciences,” which was held at the Centre of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, **Pakistan** during 8 - 9 December, **2003**.
- Organizer of 38<sup>th</sup> Annual Conference of Bangladesh Chemical Society which was held at Chittagong Port Building on 31 March, 2017 as a **General Secretary, Bangladesh Chemical Society-Chittagong Region(BCS-CR)**.
- **Convener, Organizing Committee of Bangladesh Chemistry Olympiad of Chittagong Region.** For Organizing Bangladesh Chemistry Olympiad of Chittagong Region to Popularize Chemistry at Higher Secondary Levels since 2009.

## Appendix – I

### ► List of Recent and Frequently Cited Papers:

1. **M. Jamaluddin Ahmed**, Ayesha Afrin and M. Emdadul Hoque, “A Highly Sensitive and Selective Spectrofluorimetric Method for the Determination of Molybdenum at Pico-trace Levels in some Real, Environmental, Biological, Food and Soil Samples Using 2-( $\alpha$ -Pyridyl)-thioquinaldinamide”, *European Journal of Chemistry*, **2020**, 12 (In Press)  
I. F. = 1.55
2. **M. Jamaluddin Ahmed**, “Sustainable Water Management in Developing Countries—A Case Study of Bangladesh”, *Israel Journal of Chemistry*, **2020**, 60 (8-9), 907 - 934  
DOI: <https://doi.org/10.1002/ijch.202000075> I. F. = 3.23
3. **M. Jamaluddin Ahmed**, Shaifa Abrarin “A Highly Sensitive and Rapid Spectrophotometric Method for the Simultaneous Determination of Vanadium(IV) and Vanadium(V) at Nano-trace Levels in Some Real, Environmental, Biological, Food and Soil Samples Using Salicylaldehydebenzoylhydrazone”, *European Journal of Chemistry*, **2020**, 12 (In Press) I. F. = 1.55
4. **M. Jamaluddin Ahmed**, M. Anisul Islam and M. Edris Ali, “Physicochemical Assessment of Water Quality of the Karnafuli River and Its Impact on the Environment of Chittagong, Bangladesh” *North American Academic Research*, **2020**, 3 (7), 110 – 152. DOI : <https://doi.org/10.5281/zenodo.3940714> I. F. = 1.75
5. **M. Jamaluddin Ahmed**, Ayesha Afrin and Esham Mahmood, “A Simple Spectrophotometric Method for the Determination of Zinc at Nano-trace Levels in Some Real, Environmental, Biological, Food, Soil, Pharmaceutical and Milk Samples Using 2-Hydroxynaphthaldehyde-benzoylhydrazone”, *European Journal of Chemistry*, **2020**, 11(2), 160 – 167.  
DOI: <https://10.5155/eurjchem.11.2.160-167.1987> I. F. = 1.55
6. **M. Jamaluddin Ahmed**, Ayesha Afrin, M. Ohi Uddin, “A Highly Sensitive and Rapid Spectrophotometric Method for the Determination of Molybdenum at Nano-trace Levels in Some Real, Environmental, Biological, Food and Soil Samples Using Salicylaldehydebenzoylhydrazone”, *European Journal of Chemistry*, **2020**, 11(1), 37 – 49 .  
DOI: <https://10.5155/eurjchem.11.1.37-49.1923> I. F. = 1.55
7. **M. Jamaluddin Ahmed**, Ahmed Jubaer, Md. Khorshed Ali, Md. Aminul Ahsan “Assessment of the Status of Urban Air Pollution and its Impact on Human Health in the City of Chittagong”, *North American Academic Research*, **2020**, 3 (2), 398 – 417. DOI : <https://doi.org/10.5281/zenodo.3678993> I. F. = 1.75
8. **M. Jamaluddin Ahmed**, Ayesha Afrin and M. Imran Hossain Molla, “A Simple, Highly Selective Spectrophotometric Method for the Simultaneous Determination of Arsenic (III) & Arsenic (V)) at Nano-trace Levels in some Groundwater, Real, Biological, Food and Soil Samples Using 2-Hydroxy-1-naphthaldehyde-orthoaminophenol” *International Journal of Current Research*, **2020**, 12(2), 10363 – 10379.  
DOI: <https://doi.org/10.24941/ijcr.38058.02.2020> I. F. = 1.65
9. **M. Jamaluddin Ahmed**, Faisal Hossain, Shahanaz Begum and Israt Jahan, “A Rapid Spectrofluorometric Method for the Determination of Aluminum at Nano-trace Levels in some Real, Environmental, Biological, Hemodialysis, Food, Pharmaceutical, and Soil Samples Using 2',3,4',5,7-4pentahydroxyflavone, *Analytical Sciences*, **2020**, 36(1), 1-26  
DOI: <https://doi.org/10.2116/analsci.19P443> I. F. = 2.15
10. **M. Jamaluddin Ahmed**, M. Tazul Islam and Fahima Farhana, “A Highly Sensitive and Selective Spectrofluorimetric Method for the Determination of Cerium at Pico-trace Levels in some Real, Environmental, Biological, Soil, Food and Bon Samples Using 2-( $\alpha$ -Pyridyl)-thioquinaldinamide”, *RSC Advances*, **2019**, 9, 25609 – 25626. .  
DOI: <https://doi.org/10.1039/c9ra02850a> I. F. = 3.25

## Continued Appendix - I

11. **M. Jamaluddin Ahmed**, Abdul Hakim, Faisal Hossain<sup>1</sup>, and Israt Jahan<sup>1</sup>, , “A Simple Spectrofluorimetric Method for the Determination of Cadmium at Ultra-trace Levels in some Real, Environmental, Biological, Tobacco, Food, Fertilizer, and Soil Samples Using 2', 3, 4', 5, 7-pentahydroxyflavone”, *North American Academic Research*, **2019** 2 (10), 145 – 175. DOI: <https://doi.org/10.5281/zenodo.3519939> I. F. = 1.75
12. **M. Jamaluddin Ahmed**, Ayesha Afrin and M. Manirul Islam “A Simple and Selective Spectrophotometric Method for the Determination of Uranium at Nano-trace Levels in some Real, Environmental, Biological, Food and Soil Samples Using 2-Hydroxynaphthaldehydebenzoylhydrazine”, *International Journal of Current Research*, **2019**, 11(9), 7281 – 7291. DOI: <https://doi.org/10.24941/ijcr.36413.09.2019> I. F. = 1.65
13. **M. Jamaluddin Ahmed**, Ayesha Afrin and Mamunur Rashid, “A Highly Sensitive and Selective Spectrofluorimetric Method for the Determination of Arsenic at Pico-trace Levels in some Groundwater, Real, Environmental Biological, Food and Soil Samples Using 2-( $\alpha$ -Pyridyl)-thioquinaldinamide”, *American Journal of Analytical Chemistry*, **2019**, 10(8), 316 – 347. DOI: <https://doi.org/10.4236/ajac.2019.108023> I. F. = 1.72
14. **M. Jamaluddin Ahmed**, Ayesha Afrin and Yasmin Akhtar, “A Highly Sensitive and Selective Spectrofluorimetric Method for the Determination of Vanadium at Pico-trace Levels in some Real, Environmental Biological, Food, Pharmaceutical and Soil Samples Using 2-( $\alpha$ -Pyridyl)-thioquinaldinamide”, *American Journal of Analytical Chemistry*, **2019**, 10(11), 528 – 561. DOI: <https://doi.org/10.4236/ajac.2019.1011038> I. F. = 1.72
15. **M. Jamaluddin Ahmed** and D. A. Chowdhury, “Physicochemical Characteristics of Groundwater Quality from Chittagong Area, South-eastern Bangladesh” *North American Academic Research*, **2019**, 2(11), 390 – 429  
DOI : <https://doi.org/10.5281/zenodo.3558801> I. F. = 1.75
16. **M. Jamaluddin Ahmed**, Tazul Islam and Prosenjit Ray, “A Highly Sensitive and Selective Spectrofluorimetric Method for the Determination of Cerium at Nano-trace Levels in Industrial, Biological, Soil, Food and Bone Samples Using N- acetyl-4-aminophenol”, *European Journal of Pharmaceutical and Medical Research* , **2019**, 6(8), 164 – 186.  
DOI :<https://doi.org/10.5596/ejpmr.65843.08.2019> I. F. = 4.89
17. **M. Jamaluddin Ahmed**, Prosenjit Ray and M. Tazul Islam, “A Highly Sensitive and Selective Spectrofluorimetric Method for the Determination of N- acetyl-4-aminophenol (Paracetamol) at Nano-trace Levels in some Real, Biological fluids and Pharmaceutical Formulations Using Cerium(IV)” *Pakistan Journal Analytical and Environmental Chemistry*, **2019**, 20(1), 17 – 31. DOI: <http://doi.org/10.21743/pjaec/2019.06.03> I. F. = 1.52
18. **M. Jamaluddin Ahmed**, Ayesha Afrin and Tanjina Akhter, “A Highly Sensitive and Selective Spectrofluorimetric Method for the Determination of Lithium at Pico-trace Levels in some Real, Pharmaceutical Formulations, Biological Fluids, Soil and Food a Samples Using 5,7-Dibromo-8-hydroxyquinoline”, *European Journal of Pharmaceutical and Medical Research* , **2019**, 6(6), 784 – 799.  
DOI: <https://doi.org/10.5596/ejpmr.42848.06.2019> I. F. = 4.89
19. **M. Jamaluddin Ahmed**, M. Edrise Ali, Nasrin Akter, M. A. Islam, M. A. Ahsan, “Study of Environmental Degradation of Water and Sediments of the Karnafuli River Estuary of Chittagong, Bangladesh” *The National Water Research Centre Journal*, **2018**, 32(2), 179 -199. [Evisersupport@elsiver.com](mailto:Evisersupport@elsiver.com)  
DOI: [https://doi.org/10.1007/1-4020-2243-3\\_22](https://doi.org/10.1007/1-4020-2243-3_22) I. F.= 4.61
20. **M. Jamaluddin Ahmed**, M. Tazul Islam and Faisal Hossain, “A Highly Sensitive and Selective Spectrofluorimetric Method for the Determination of Manganese at Nano-trace Levels in Industrial, Biological, Soil, Food and Pharmaceutical Samples Using 2-( $\alpha$ -Pyridyl)-thioquinaldinamide”, *RSC Advances*, **2018**, 8, 5509 – 5522 .  
DOI: <http://doi.org/10.1039/c7ra12762f> I. F. = 3.25
21. **M. Jamaluddin Ahmed**, M. Tazul Islam and Most. Jannatul Nime, “A highly Selective and Sensitive Spectrophotometric Method for the Determination of Selenium Using 2-hydroxy-1-naphthaldehyde-orthoaminophenol” *Analytical Methods*, **2015**, 7, 7811 – 7823. DOI: <https://doi.org/10.1039/C5AY01311A> I. F. = 2.51
22. **M. Jamaluddin Ahmed** and Tasnima Zannat, “High Sensitive and Selective Spectrophotometric Method for the Determination of Trace Level of Vanadium in some Real, Environmental, Biological, Soil, Food and Pharmaceutical Samples Using Orthoaminophenol” *European Journal of Chemistry*, **2015**, 6(2), 141 – 150.  
DOI: <https://doi.org/10.5155/eurjchem.6.2.141-150.1193> I. F. = 1.56

23. **M. Jamaluddin Ahmed**, M. Nasir Uddin, Tasnima Zannat and Salma Sultana, "A Simple Spectrophotometric Method for the Determination of Trace Level of Molybdenum in Industrial, Environmental, Biological and Soil Samples Using Benzoyalacetonebenzoyalhydrazone", *Analytical Methods*, **2014**, 6(7), 2282 – 2293.  
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24. **M. Jamaluddin Ahmed** and Tasnima Zannat, A Simple and Rapid Spectrophotometric Method for the Determination of Iron in some Real, Environmental, Biological, Pharmaceutical, food and Soil samples using 1, 2-Dihydroxybenzene-3,5-disulfonic acid", *European Journal of Chemistry*, **2014**, 5 (1), 101 – 110.  
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25. **M. Jamaluddin Ahmed**, M. Nazrul Islam, M. Akram Hossain and S. Siraj, "Physicochemical Assessment of Water Pollutants due to Ship – breaking Activities and Its Impact on Costal Environment of Chittagong-Bangladesh" *European Chemical Bulletin*, **2013**, 2(12), 1053-1059 .  
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26. **M. Jamaluddin Ahmed**, M. Nasir Uddin, M. Nazrul Islam and M. Shahidul Islam, "Physicochemical Assessment of Soil Pollutants due to Ship – breaking Activities and Its Impact on Costal Zone of Chittagong, Bangladesh" *European Chemical Bulletin*, **2013**, 2(12), 975 – 980.  
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27. **M. Jamaluddin Ahmed** and M. Tazul Islam, "A Simple Spectrophotometric Method for Determination of Zinc in some Real, Environmental, Biological, Pharmaceutical, Milk and Soil Sample Using 5,7-Dibromo-8-Hydroxyquinoline" *Pakistan Journal Analytical & Environmental Chemistry*, **2013**, 14(1), 1 –15.  
DOI: <http://doi.org/10.21743/pjaec/2013.06.01> I. F. = 1.52
28. **M. Jamaluddin Ahmed**, M. Khorshed Ali and Mozammel Hossain, "Determination of Trace Metals in Air of Chittagong City-Bangladesh", *European Journal of Chemistry*, **2012**, 3(4), 416-420.  
DOI: <https://doi.org/10.5155/eurjchem.3.4.416-420.645> I. F. = 1.56
29. Rubina Somroo, **M. Jamaluddin Ahmed**, Saima Q. Memon, Najma Memon and Arfana Mallah, "Bis(Salicylaldehyde)orthophenylenediamine as Complexing Reagent in Simultaneous Determination of Gold, Chromium, Iron, Uranium and Nickel using Capillary Zone Electrophoresis", *Acta Chromatographica*, **2012**, 24(4), 543 – 558.  
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31. **M. Jamaluddin Ahmed** and Tasnima Zannat,"A Simple Spectrophotometric Method for the Determination of Copper in Some Real, Environmental, Biological, Food and Soil Samples Using Salicylaldehydebenzoylhydrazone", *Pakistan Journal Analytical Environmental Chemistry*, **2011**, 12(1), 1 – 12.  
DOI: <http://doi.org/10.21743/pjaec/2011.12.01> I. F. = 1.52
32. **M. Jamaluddin Ahmed**, and M. Reazul Haque , "A Rapid Spectrophotometric Method for the Determination of Chromium in Environmental Samples" *Research Journal of Chemical Sciences*, **2011**, 1(1), 46 – 59.  
DOI: <https://doi.org/10.1007/rjcs/12039-011-01766-5> I. F. = 1.33
33. **M. Jamaluddin Ahmed**, Rubina Soomro and Najma Memon, "A Rapid and Selective Spectrophotometric Method for the Determination of Trace Chromium in Real, Environmental, Biological, and Soil Samples Using Bis (Salicylaldehyde) orthophenylenediamine in Micellar Medium", *Turkish Journal of Chemistry*, **2011**, 35, 155 – 170.  
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34. Rubina Soomro, **M. Jamaluddin Ahmed**, Saima Q. Memon and Najma Memon, "Utilization of Bis(salicylaldehyde)-orthophenylenediamine for the Separation of Gold and Chromium by Capillary Zone Electrophoresis, *Pakistan Journal Analytical & Environmental Chemistry*, **2010**, 11(2), 30 – 37.  
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DOI: <http://doi.org/10.21743/pjaec/2010.11.01> I. F. = 1.52
37. **M. Jamaluddin Ahmed** and A. S. M. Shahed Khan "A Simple Spectrophotometric Method for the Determination of Trace Aluminum in Real, Environmental, Biological, Geological and Soil Samples Using 2-Hydroxynaphthaldehydebenzoylhydrazone," *Eurasian Journal of Analytical Chemistry*, **2010**, 5(1), 1 - 15.  
DOI: <https://doi.org/10.29333/ejac/20105> I. F. = 1.35
38. **M. Jamaluddin Ahmed**, Bin-Tian Zhang and Liang-Hong Guo, "Photoelectrochemical Sensors for the Rapid Detection of DNA Damage Induced by Some Nanoparticles", *Pakistan Journal of Analytical & Environmental Chemistry*, **2010**, 11 (1), 08 -15. DOI: <http://doi.org/10.21743/pjaec/2010.11.02> I. F. = 1.52
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40. Rubina Soomro, **M. Jamaluddin Ahmed**, Najma Memon and Humaira Khan, "A Simple and Selective Spectrophotometric Method for the Determination of Trace Gold in Real, Environmental, Biological, Geological and Soil Samples Using Bis-(Salicylaldehyde)-orthophenylenediamine", *Analytical Chemistry Inside*, **2008**, 3, 75 – 90.  
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41. Najma Memon, **M. Jamaluddin Ahmed** and M. Iqbal Bhanger, "A Simple Micellar Spectrophotometric Determination of Nickel by Flow Injection Analysis", *Journal of Analytical Chemistry*, **2008**, 32, 325 -332.  
DOI: <https://doi.org/10.1134/S1061934808100055> I. F. = 1.83
42. **M. Jamaluddin Ahmed** and Khandaker Jakir Hossain, "A Rapid Spectrophotometric Method for the Determination of Cobalt in Industrial, Environmental, Biological, Pharmaceutical and Soil Samples Using Bis(5-bromosalicylaldehyde)-orthophenylenediamine", *Journal of Iranian Chemical Society*, **2008**, 5(4), 677 - 688.  
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44. Humaira Khan, **M. Jamaluddin Ahmed** and M. I. Bhanger, "A Rapid Spectrophotometric Method for the Determination of Trace Level Lead Using 1,5-Diphenylthiocarbazone in the Presence of Aqueous Micellar Solution", *Analytical Sciences*, **2007**, 23(2), 193 -199.  
DOI: <https://doi.org/10.2116/analsci.23.193> I. F. = 2.01
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DOI: <http://doi.org/10.21743/pjaec/2006.6.05> I. F. = 1.52
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DOI: <https://doi.org/10.1155/2006/269568> I. F. = 1.85
49. **M. Jamaluddin Ahmed** and Nurun Nahar Begum, "Mathematical Modeling of Flow Injection Techniques and their Applications for Environmental Monitoring", *Pakistan Journal of Analytical and Environmental Chemistry*, **2006**, 7 (2), 83 – 95.  
DOI: <http://doi.org/10.21743/pjaec/2006.7.08> I. F. = 1.52

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DOI: <https://doi.org/10.2116/analsci.21.507> I. F. = 2.51
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DOI: <http://doi.org/10.21743/pjaec/2005.6.03> I. F. = 1.52
52. **M. Jamaluddin Ahmed**, M. Nasir Uddin, Didarul Alam Choudhury, Tasnima Jannat and K. Jakir Hussain and D. A. Chowdhury, "2-Hydroxyacetophenone- benzoyalhydrazone – A Novel Spectrophotometric Reagent for Rare Metallic Traces Analysis" *Pakistan. Journal of Analytical Chemistry*, **2004**, 5 (2), 48 –52.  
DOI: <http://doi.org/10.21743/pjaec/2004.5.06> I. F. = 1.52
53. **M. Jamaluddin Ahmed** and Tauhidul Islam Chowdhury, "A Simple Spectrophotometric Method for the Determination of Cadmium in Industrial, Environmental, Biological and Soil Samples Using 5,7-Dibromo-8-hydroxyquinoline", *Analytical Sciences*, **2004**, 20(6), 987 – 990.  
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54. **M. Jamaluddin Ahmed**, M. Nasir Uddin and S. K. Saha, "A Simple Spectrophotometric Method for Determination of Molybdenum in Real, Environmental, Biological and Soil Samples Using 1,5-Diphenylcarbohydrazide", *Pakistan Journal of Analytical Chemistry*, **2003**, 4 (2), 123 -132.  
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55. **M. Jamaluddin Ahmed**, "Arsenic Contamination of underground water in Bangladesh: Cause, Effect, Speciation, Determination and Remedy," *Pakistan Journal of Analytical Chemistry*, **2003**, 4 (2), 133 – 136.  
DOI: <http://doi.org/10.21743/pjaec/2003.4.07> I. F. = 1.52
56. **M. Jamaluddin Ahmed** and M. S. Alam, "A Rapid Spectrophotometric Method for the Determination of Mercury in Environmental, Biological, Soil and Plant Samples using Diphenylthiocarbazone", *Spectroscopy*, **2003**, 17, 45 - 52.  
DOI: <https://doi.org/10.1155/2003/250927> I. F. = 1.85
57. **M. Jamaluddin Ahmed** and R. M. Smith, " Determination of Stevioside by High - Performance Liquid Chromatography with Pulsed Amperometric Detection", *Journal of Separation Science*, **2002**, 25, 170 - 172.  
DOI:[https://doi.org/10.1002/1615-9314\(20020201\)25:3%3C170::AID-JSSC170%3E3.0.CO;2-W](https://doi.org/10.1002/1615-9314(20020201)25:3%3C170::AID-JSSC170%3E3.0.CO;2-W) I.F. = 3.15
58. **M. Jamaluddin Ahmed**, Israt Jahan and S. Banoo, "A Simple Spectrophotometric Method for Determination of Copper in Industrial, Environmental, Biological and Soil Samples Using 2,5-Dimercapto-1,3,4-thiadiazole", *Analytical Sciences*, **2002**, 18 (7), 805 –810.  
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DOI: <https://doi.org/10.2116/analsci.18.433> I. F. = 2.01
60. **M. Jamaluddin Ahmed** and Mosaddeq-Al Mamun, "Non-Extractive Spectrophotometric Method for Determination of Lead in Industrial, Environmental, Biological and Soil Samples using 2,5-Dimercapto-1,3,4-thiadiazole", *Talanta*, **2001**, 55(1), 43 - 54.  
DOI: [https://doi.org/10.1016/S0039-9140\(01\)00389-7](https://doi.org/10.1016/S0039-9140(01)00389-7) I. F. = 5.15
61. **M. Jamaluddin Ahmed** and M. Maniruzzaman, "Non-Extractive Spectrophotometric Method for Determination of Lead and its Application to Industrial, Environmental, Biological and Soil Samples", *Journal of Ultra Scientist of Physical Sciences*, **2001**, 13(1), 25 - 36.  
DOI: <https://doi.org/10.2116/jusps-B.2001.13.25> I. F. = 3.15
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65. **M. Jamaluddin Ahmed** and M. Z. Rahman, "Non-extractive Spectrophotometric Determination of Arsenic(V) and its Application in Environmental Analysis", *Journal of Bangladesh Academy of Sciences*, **1998**, 22 , 45 - 54. DOI: <https://doi.org/10.3329/jbas.v22i2.98345> I. F. = 0.51
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67. **M. J. Ahmed**, C. D. Stalikas, P. G. Veltsistas, S. M. Tzouwara-Karayanni and M. I. Karayanni, "Simultaneous Spectrofluorimetric Determination of Selenium(IV) and Selenium(VI) by Flow-Injection Analysis", *Analyst*, **1997**, 122, 221-226. DOI: <http://doi.org/10.1039/A606357H> I. F. = 4.52
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69. **M. Jamaluddin Ahmed** and Jamal Hossain, "Spectrophotometric Determination of Aluminum by Morin", *Talanta*, **1995**, 42, 1135-1142. DOI: [10.1016/0039-9140\(95\)01554-o](https://doi.org/10.1016/0039-9140(95)01554-o) I. F. = 5.15
70. **M. Jamaluddin Ahmed** and A. K. Banerjee, "Non-extractive Spectrophotometric Determination of Vanadium(V) in Alloys and Environmental, Biological and Soil Samples using 5,7-Dibromo-8-hydroxyquinoline", *Analyst*, **1995**, 120, 2019-2023. DOI: <https://doi.org/10.1039/AN9952002019> I. F. = 4.52
71. **M. Jamaluddin Ahmed** and D. Chakraborty, "Trace Determination of Total Phosphorus and its Application in Chemical, Environmental, Biological and Soil Analysis", *Journal of Bangladesh Academy of Sciences*, **1994**, 18 (2), 127-135 . DOI: <https://doi.org/10.3329/jbas.v18i2.94127> I. F. = 0.5
72. **M. Jamaluddin Ahmed** and M. Salim, "Ultra-trace Determination of Chromium and its Application in Chemical, Industrial, Environmental and Biological Analysis", *Journal of Bangladesh Academy of Sciences*, **1992**, 16 (2), 223-233. DOI: <https://doi.org/10.3329/jbas.v16i2.92223> I. F. = 0.5
73. B. K. Pal, **M. Jamaluddin Ahmed** and Anil Kumar Chakrabarti, "2-( $\alpha$ -Pyridyl)-thioquinaldinamide (PTQA)- A Novel Fluorimetric Reagent in Inorganic Trace Analysis. **Part III**: Determination of Manganese in Industrial and Environmental Samples", *Analyst*, **1990**, 115, 439-443. DOI: <https://doi.org/10.1039/AN9901500439> I. F. = 4.52
74. B. K. Pal, **M. Jamaluddin Ahmed** and Anil Kumar Chakrabarti, "2-( $\alpha$ -Pyridyl)thioquinaldinamide (PTQA)- A Novel Fluorimetric Reagent in Inorganic Trace Analysis. **Part I**: The Non-extractive, Non-quenching Fluorescent Method for the Determination of Chromium(VI)", *Mikrochimica Acta (Wien)*, **1989**, I, 393-401. DOI: <https://doi.org/10.1007/BF01242262> I. F. = 6.15
75. B. K. Pal, Anil Kumar Chakrabarti and **M. Jamaluddin Ahmed**, "2-( $\alpha$ -Pyridyl)-thioquinaldinamide (PTQA)- A Novel Fluorimetric Reagent in Inorganic Trace Analysis. **Part II**: A Simple Selective Determination of Selenium(IV) at Ultratrace Levels", *Analytica Chimica Acta*, **1988**, 206, 345-349. DOI: [https://doi.org/10.1016/S0003-2670\(00\)80856-9](https://doi.org/10.1016/S0003-2670(00)80856-9) I. F. = 5.85

► **For a Details List of Publications please see following Links:**



**Google Scholar:** <https://scholar.google.com/citations?hl=en&user=76vdY9AAAAAJ> ;



**ResearchGate:** [https://www.researchgate.net/profile/M\\_Ahmed10/publication](https://www.researchgate.net/profile/M_Ahmed10/publication)



### Theme / Plenary / Keynote / Invited Lectures Delivered in Several International and National Conferences, Seminars, Symposiums & Presented More than 61 Research Articles and Conducted More than 30 Technical Sessions as a Chair

1. **Officially Accepted (ID:3426831) as an Invited Lecture** which was presented virtually (Speaker #2985) on **“Sustainable Water Management for Developing Countries – A Case Study of Bangladesh”** in **ACS Fall 2020 National Meeting & Exposition (Virtual)** in **“Next Generation of Urban Water Infrastructure: A Challenge for Environmental Chemists and Engineers”**, Organized by American Chemical Society which was held at **San Francisco, CA, USA** during 17-20 August, 2020.
2. **A Keynote Lecture** was delivered in the **“International Webinar on Sustainable Water Management for Developing Countries–A Case Study of Bangladesh”**, **“Challenges posed by Climate Change & growing economic development on Water Resources”**, Organized by COMSTECH Secretariat of OIC Countries at Islamabad, Pakistan along with **E-Certificate on 5 October, 2020** at 1600 BST more than **200 participants** were attended from **OIC Countries**
3. Participated and **delivered a Keynote Lecture** in the **“The 18th Asian Chemical Congress (18<sup>th</sup> ACC)”** Organized The Federation of Asian Chemical Societies and **Conducted 83 Technical Session on Green and Environmental Chemistry as a Chair** which was held at International Convention Center of **Taipei, Taiwan**, during 8 - 12 December, **2019**
4. Participated and **delivered a Keynote Lecture** on in the **“International Conference of Bangladesh Society for Biochemistry and Molecular Biology-2019 (BSBMB-19), Theme: Advances in Chemical Science: Impact on Life and Environment”** sponsored by Bangladesh Society for Biochemistry and Molecular Biology, which was held in Department of Biochemistry and Molecular Biology at **University of Chittagong, Chittagong**, and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** during 24 - 25 September, **2019**. Abstract has been published in the *Proceedings of International Conference of BSBMB, 2019, KL-3, 23*
5. Participated & Presented as a **Keynote Lecture** in the **“40<sup>th</sup> Bangladesh Chemical Society Conference 2019(BCSC), Theme: Advances in Chemical Science: Impact on Life and Environment”** sponsored by Bangladesh Chemical Society & RU and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair**, which was held in Department of Chemistry, **University of Rajshahi** during 9 - 10 November, **2019**. Abstract has been published in the *Proceedings of BCSC, 2019, KL-A-01, 10*
6. Participated & Presented a **Keynote Lecture** in the **“International Conference on Natural Science & Technology (ICNST’18)”**, sponsored by Asian University for Women and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held in **Asian University for Woman, Chittagong, Bangladesh**, during 30-31 March, **2018**. Abstract has been published in the *Proceedings of 5th International Conference on Natural Science & Technology, 2018, KL-ENV-4, 15*.
7. Participated & Presented a **Keynote Lecture** in the **“14<sup>th</sup> International Symposium on Natural Products Chemistry (ISNPC’14)”**, sponsored by H.E. J. Research Centre of Chemistry & International Centre of Chemical & Biological Sciences(ICCBS), University of Karachi and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held in **Auditorium of University of Karachi, Pakistan**, during 6-8 November, **2018**. Abstract has been published in the *Proceedings of 14<sup>th</sup> International Symposium on Natural Product Chemistry, 2018, KL-A-4, 11*.
8. Participated & Presented a **Plenary Lecture** in the **“One day International Seminar on Sustainable Water Management”**, Organized by Centre of Excellence in Analytical Chemistry, University of Sindh and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held in the **Sindhology Auditorium of University of Sindh, Pakistan**, on 10 November, **2018**
9. Participated & Presented a **Keynote Lecture** in the **“Bangladesh Chemical Congress-2018 (BCC2018), Theme: Chemistry for Green Living”** sponsored by Bangladesh Chemical Society, which was held in Department of Chemistry, University of Dhaka during 17-19 October, **2018**. Abstract has been published in the *Proceedings of 39th Annual Conference of Bangladesh Chemical Society, 2018, KL-A2, 22 - 23*.
10. Participated and **delivered a Plenary Lecture** in the **“Wayamba International Conference (WinC-2018) on Extended Frontiers towards Sustainable Development Goals”** Sponsored by **Wayamba University of Sri Lanka & Ministry of Science & Technology, Govt. of Sri Lanka** and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held at the Auditorium of **Wayamba University of Sri Lanka, Kuliapitiya, Sri Lanka** during 24-25 August, **2018**
11. Participated and **delivered a Plenary Lecture** in the **“International Chemical Congress on Chemistry for Sustainable Development (ICC-2018)”** Sponsored by **Nepal Chemical Society & Tribhuvan University** and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held at the Auditorium of **Tribhuvan University, Kathmandu, Nepal** during 8-10 March, **2018**
12. Participated and **delivered an Invited Lecture** on **“Basic Principles, Instrumentation, Applications and Troubleshooting of AAS” as a Resource Person** in the **65<sup>th</sup> Training Programme of NITUB on the use. Maintenance and Troubleshooting of Common Laboratory Equipment”** which was held in the Dept. of Chemistry, **University of Chittagong** during 14 – 19 October, **2017**
13. Participated and **delivered a Plenary Lecture** in the **“International Symposium on Environmental Chemistry for Securing Water Quality” Sponsored by BCSIR Laboratories, Dhaka** which was held at the Auditorium of BCSIR Laboratories, Dhaka, on 30 July, **2017**

14. **Delivered a Faculty Plenary Lecture** on “*Chemistry for Sustainable Water Management of Developing Countries: A Case Study of Bangladesh*” Organized by Faculty of Science, **University of Chittagong** on 10 March, **2017**
15. Participated and **delivered a Invited Lecture** in the “*17<sup>th</sup> Asian Chemical Congress (17ACC)*” **Sponsored by Australian Chemical Society** which was held at Melbourne University, **Australia** during 17-22 July, **2017**.
16. Participated and **delivered a Keynote Lecture** on ‘*Chemistry for Food Safety*’ in the “*38<sup>th</sup> Annual Conference of Bangladesh Chemical Society*” and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held at Chittagong Port Building on 31 March, **2017**
17. Participated and **delivered a Keynote Lecture** in the “*16<sup>th</sup> Asian Chemical Congress(16ACC)*” **Sponsored by Asian Chemical Society(Japan)** and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held at BUET & Dhaka University during 16-19 March, **2016**
18. Participated and **delivered a Theme Lecture** on ‘*Chemistry for Green Living*’ in the “*37<sup>th</sup> Annual Conference of Bangladesh Chemical Society*” which was held at Comilla University, Comilla, on 14 April, **2015**
19. Participated and **delivered a Plenary Lecture** in the “*2<sup>nd</sup> International Conference on Environmental Horizon, Greening the Blue*” Organized HEC & Chemical Society of Pakistan and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held at International Center of Chemical & Biological Sciences, University of Karachi, **Pakistan**, during 1-3 January, **2014**
20. Participated and **delivered a Plenary Lecture** in the “*3<sup>rd</sup> Pak-Turk International Conference on Chemical Sciences*” and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held at Mete Cengiz Cultural Center, Uludag University, Bursa, **Turkey** during 13-15 September, **2012**.
21. Participated and **delivered an Invited Lecture as a Resource Person** in the “*International Workshop on Nanotechnology*” Organized by MoST, UGC, BUET & DU which was held at Hotel Pan Pacific Sonargaon, **Dhaka** during 21-23 September, **2012**
22. Participated and **delivered a Plenary Lecture** in the “*International Conference on Sustainable Water Management*” Organized by University of Exeter & HEC of Pakistan and **Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair** which was held at Mehran University of Engineering & Technology, Jamshoro, **Pakistan** during 18-21 December, **2010**
23. Participated and **delivered an Invited Lecture** in the “*2<sup>nd</sup> Pak-Turk International Conference on Chemical Sciences*” was held at University of Sindh, Jamshoro, Pakistan during 13 - 16 February, **2010**.
24. Participated and **delivered an Invited Lecture** in the “*International Workshop on Intellectual Property Policies for Universities and Research Institutions*” Organized by HEC of Pakistan which was held at **University of Sindh, Jamshoro, Pakistan** during 15 - 18 March, **2008**.
25. Participated and presented a **Plenary Lecture** in the “*4<sup>th</sup> International Conference on Analytical Sciences*” Organized by the HEC & Chemical Society of Pakistan was held at University of Sindh, Hyderabad, **Pakistan**, during 7 – 10 September, **2007**.
26. Participated and presented a **Plenary Lecture** in the “*2<sup>nd</sup> International Conferences on Analytical Sciences*” Organized by the HEC & the Chemical Society of **Pakistan** was held at Center of Excellence in Analytical Chemistry, **University of Sindh, Pakistan**, during 10 – 13 February, **2005**.
27. Participated and presented an **Invited lecture** in the “*4<sup>th</sup> International & 14<sup>th</sup> National Chemistry Conference*” organized by the Chemical Society of Pakistan at PCSIR Laboratories Complex, **Lahore, Pakistan**, 16 – 18 May, **2004**.
28. Participated and **delivered a Plenary Lecture** in the “*Bangladesh-Iran- Pakistan International Seminar on Analytical Sciences*” held at the Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, **Pakistan** during 8-9 December, **2003**.
29. Participated and presented a paper in the “*Annual Conference 2001*” of Royal Society of Chemistry at International Convention Centre (ICC), Aston University, **Birmingham, UK**, July 30 - 02 August, **2001**, YOR6, 15.
30. Participated and presented a paper in the “*Analytical Research Forum*” organized by Royal Society of Chemistry at University of East Anglia, **Norwich, UK**, 16 -18 July, **2001**.

## Continued Appendix – 2

31. Participated and presented a paper as an Invited Lecture in the “*International Conference on Environmental Science*” organized by Regional Research Laboratory (CSIR), **Trivandrum, India**, December 2-4, **1998**.
32. Participated and presented a **Country Paper** as a **Country Representative of Bangladesh** in the *International Conference on the field of Nutrient Analysis in Water and Waste-water*, Organized by Commonwealth Science Council at Queensland Health Scientific Services, **Brisbane, Australia**, during 10-13 March, **1997**.
33. Participated and presented an **Invited Lecture** in the “*International Conference on Industrial pollution and Control Technologies*” Organized by **Jawaharlal Nehru Technological University, Hyderabad, India**, 17-19 November, **1997**.
34. Participated and presented an **Invited Lecture** in “*The International Symposium on Instrumentation & Control of Environmental pollution*” was held in **Calcutta University, India** from 29-31 January, **1994**.
35. Participated and presented papers in the 6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 16<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup>, 21<sup>st</sup>, 22<sup>nd</sup>, 24<sup>th</sup>, 26<sup>th</sup>, 27<sup>th</sup>, 28<sup>th</sup>, 29<sup>th</sup>, 31<sup>st</sup>, 32<sup>nd</sup>, 34<sup>th</sup> and 36<sup>th</sup> Bi-annual Conferences of Bangladesh Chemical Society held at **BCSIR, Dhaka University AEC, CU, BCIC Bhaban, Dhaka, Rajshahi, Jahangirnagar University, BCIC Bhaban; J.U. and DU** in **1982, 1983, 1984, 1991, 1992, 1995, 1996, 1998, 1999, 2000, 2003, 2004, 2005, 2006, 2008, 2009, 2010, 2011 and 2013**, respectively.
36. Participated and presented papers in the 6<sup>th</sup> & 7<sup>th</sup>, 8<sup>th</sup>, 10<sup>th</sup>, 16<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, 20<sup>th</sup> Annual Conferences of Bangladesh Association for the Advancement of Sciences held at **Dhaka, Rajshahi, Mohakhali Health Complex, AEC, BCSIR, Gazipur, Mymensing, JU and BUET** in **1982, 1983, 1985, 1986, 1991, 1992, 1994, 1996, 1998 & 2000**, respectively.
37. Participated and presented papers in the “25<sup>th</sup>, 26<sup>th</sup>, 27<sup>th</sup> and 28<sup>th</sup> Annual Conferences of Indian Chemical Society” held at **Calcutta, Tirupati, Hyderabad and Jadavpur University, India** in **1988, 1989, 1990 and 1991**, respectively.

## Appendix – 3

### TRAINING AND CERTIFICATIONS:

1. Online Certificate Course on “**Diagnosis of COVID – 19, Sample Collection, RNA Extraction, PCR and Data Interpretation**”, **Organized by COMSTECH Secretariat, Islamabad**, Collaboration with the International Center for Chemical and Biological Sciences (ICCBS), University of Karachi, Pakistan during **18 – 20 August, 2020**
2. International Workshop on the “*Field” - Oriented Analytical Chemistry*” sponsored by UNESCO & UGC from 11-20 May, 1985 at **University of Dhaka, Bangladesh**.
3. National Workshop on the “*Field” - Oriented Analytical Chemistry*” sponsored by UNESCO & UGC from 15-21 June, 1986 at **University of Chittagong, Bangladesh**.
4. “*Summer Science Course '83 “in Chemistry”*” sponsored by the institute for Advancement of Science and Technology Teaching, Bangladesh during May-July, 1983 at **University of Chittagong, Bangladesh**.
5. National “*Computer Workshop '90 on DOS, BASIC, SPSS and SPERCALC - 4*” in June, 1990 organized by the Faculty of Science, **University of Chittagong, Bangladesh**.
6. Regional Workshop on “*Environmental Impacts from Fertilizers, Agrochemicals and Industrial Wastes*” Sponsored by Commonwealth Science Council, London from 22-26 January, 1993 in **Dhaka, Bangladesh**.
7. “*Asian Workshop & Training Course on Methane Studies*” under CREN Project with the support of Commonwealth Science Council, London from 10 - 17 February, 1995 at **National Physical Laboratory, New Delhi, India**.
8. International Comet Course on “*Occurrence of Organic Pollutants in Soil, Water and Wastewater*” sponsored by European Comet Project from 25 - 30 June, 1995 at **European Environmental Research Institute, Ioannina, Greece**.
9. An International Training Course was carried out on the “*field of Nutrient Analysis in Water and Waste-water for the Development of Skill for Sample Collection, Preservation and Measurement Using Manual & Automatic Instrumental Techniques*” Organized by Commonwealth Science Council at **Brisbane, Australia** during March 10 – 17, 1997.
10. “*International Training Course on Chromatographic Techniques and Tools*” Organized by Indian Institute of Chemical Technology (CSIR), **Hyderabad, India**, 2-13 February, 1998.
11. “*Staff Development Computer Course*”, Organized by **Loughborough University, UK** from October - December, 2000.



## Appendix- 4

### MS / M. Phil. / PhD Research Work Completed and Degree Awarded by the University of Chittagong under my direct Supervision

Sl. No	Name of Students	Degree	Awarding Year	Title of Thesis
1.	Dr. Khandhakar Zakir Hossain	PhD	2008	"Spectrophotometric Determination of Some Toxic and Heavy Metals in the Environment and Developing Methods for their Mitigations".
2.	Dr. Gulum Kibria (Joint Supervisor)	PhD	2008	"Studies of Cadmium and Lead Uptake by Crops and Vegetables Grown in Three Different Textured Soils"
3.	Dr. Md. Reazul Hogue	PhD	2010	"Chemical Assessment of Surface- and Groundwater Resources in the Chittagong Division and Developing Methods for their Mitigation"
4.	Dr. Tasnima Zannat	PhD	2017	"Trace Determination of Some Toxic and Heavy Metals in the Environment"
5.	Dr. Md. Edris Ali	PhD	2018	"Study of Environmental Degradation of Water and Sediments of the Karnafuli River Estuary of Chittagong, Bangladesh"
6.	Dr. Md. Tazul Islam	PhD	2020	"Trace Determination of Some Toxic and Geno-toxic Inorganic"
7.	Dr. M. Didarul Alam Chowdhury	PhD	2020	"Physicochemical Assessment of Surface and Groundwater Quality Parameters and their Spatial Distribution in the Region of Chittagong - Bangladesh"
8.	Ayesha Afrin	PhD	2020	"Method Development for Ultra-trace Determination of Some Toxic and Heavy Metals in Various Matrices"

### Research Work of Foreign PhD Students Completed and Degree Awarded by the University of Sindh, Pakistan (Under MoU) under my direct Supervision and joint Supervision as a Visiting Professor of University of Sindh.

9.	Dr. Najma Memon	PhD	2005	"Spectrophotometric and Chromatographic Determination of Analytical Species Using Organized Assemblies".
10.	Dr. Humaira Khan	PhD	2008	"Spectrophotometric Determination of Some Heavy Metals with Diphenylthiocarbazone in micellar Media"
11.	Dr. Abdul Niaz	PhD	2009	"Method Development in Electro-analytical Chemistry, UV-Visible Spectroscopy and Fluorescent Techniques."
12.	Dr. Rubina Soomro	PhD	2013	"Utilization of Bis(salicylaldehyde)orthophenyldiamine and its derivatives for the spectrophotometric and electrophoretic determination of selected metal ions"

### M. Phil. Students Supervised

13.	Mohammad Nasir Uddin	M. Phil.	2003	"Spectrophotometric Determination Some Toxic Metals in the Environment"
14.	Khandhakar Zakir Hossain	M. Phil.	2003	"Trace and Ultra-trace Determination of Some Toxic Metals"
15.	Md. Tazul Islam	M. Phil.	2014	"Determination of Some Toxic Metals in the Environment"
16.	Md. Khurshed Ali	M. Phil.	2015	"Chemical Assessment of Gaseous Pollutants, Particulate Matters and Trace Metals in Air of Chittagong City"
17.	Md. Nazrul Islam	M. Phil.	2015	"Physicochemical Assessment of Pollutants due to Ship – breaking Activities and Its Impact on Costal Environment of Chittagong-Bangladesh"
18.	Ishrat Jahan	M. Phil.	2017	"Spectrofluorimetric Determination of some Toxic and Geno-toxic Inorganic"
19.	Humaira Khan	M. Phil. (University of Sindh)	2004	"Spectrophotometric Determination of Bio-significant Toxic Metals in Micellar Media"
20.	Rubina Soomro	M. Phil. (University of Sindh)	2008	"Synthesis and Characterization of Schiff's Base Reagent Bis-(Salicylaldehyde)orthophenylenediamine and its Analytical Application for the Determination of Toxic Metals"

### Continued Appendix-4

### **M.Sc. / MS Research Students Supervised**

#### **M.Sc. Students**

**(Joint Supervisor with Professor A. K. S. Ahmed)**

<b>Sl. No.</b>	<b>Name of Student</b>	<b>Session</b>	<b>Year of Passing</b>
21.	Bijan Lal Dev	1979-1980	<b>1982</b>
22.	Md. Abdur Rouf	1779-1980	<b>1982</b>
23.	Didarul Alam Chowdhury	1979-1980	<b>1982</b>
24.	Benu Kumar Dey	1980–1981	<b>1983</b>
25.	M. Safiul Alam Chowdhury	1980–1981	<b>1983</b>
26.	Habibur Rahman Akhand	1981-1982	<b>1984</b>
27.	Md. Shamsuzzaman	1981-1982	<b>1984</b>
28.	A.K.M. Shahid H. Khandhaker	1982-1983	<b>1985</b>
29.	Md. Jasimuddin	1982-1983	<b>1985</b>
30.	Md. Mosurul Islam	1983-1984	<b>1986</b>

### **Direct Supervision of M. Sc./ MS Students**

31.	Mohammed Salim	1989–1990	<b>1992</b>
32.	Dipankar Chakraborty	1990 -1991	<b>1993</b>
33.	Hamidur R. Akhand	1990 -1991	<b>1993</b>
34.	Jamal Hossain	1991-1992	<b>1994</b>
35.	Md. Shah Alam	1991-1992	<b>1994</b>
36.	Arpan Kanti Banerjee	1992 -1993	<b>1995</b>
37.	Md. Ziaur Rahman	1992 -1993	<b>1995</b>
38.	Md. Ahsanul Hoque	1993 – 1994	<b>1997</b>
39.	Md. Abu Siddique	1993 – 1994	<b>1997</b>
40.	Saera Bano	1994 – 1995	<b>1998</b>
41.	Nur–e-Alam Siddique	1994 – 1995	<b>1998</b>
42.	Md. Jobaer Hossain	1996 – 1997	<b>1999</b>
43.	Md. Humayun Kabir	1996 – 1997	<b>1999</b>
44.	Mosadeque-Al- Mamun	1997 – 1998	<b>2000</b>
45.	Md. Moniruzzaman	1997 – 1998	<b>2000</b>
46.	Md. Jahangir Alam Chowdhury	1997 – 1998	<b>2000</b>
47.	M. Enamul Hoque, Tarek	1999 – 2000	<b>2002</b>
48.	Israt Jahan	1999 – 2000	<b>2002</b>
49.	M. Tohidul Alam Chowdhury	2000 – 2001	<b>2003</b>
50.	Sumon Kumar Shaha	2000 – 2001	<b>2004</b>
51.	M. Didarul Alam Chowdhury	2002 – 2003	<b>2005</b>
52.	Tasnima Zannat	2002 – 2003	<b>2005</b>
53.	S.M. Shahed Hossain	2003 – 2004	<b>2006</b>
54.	Md. Saif Uddin	2003 – 2004	<b>2006</b>
55.	M. Anamul Hoque, Tareq	2004 - 2005	<b>2007</b>
56.	Md. Mizanur Rahman	2004 - 2005	<b>2007</b>
57.	Uttam Kumar Roy	2005 - 2006	<b>2008</b>
58.	Md. Reazul Karim	2006 - 2007	<b>2009</b>
59.	Md. Khursed Ali	2006 - 2007	<b>2009</b>
60.	Md. Mozammel Hossain	2007 - 2008	<b>2010</b>
61.	Sayedra Rahimun Nahar	2008 – 2009	<b>2011</b>
62.	Md. Nizam Uddin	2008 – 2009	<b>2011</b>
63.	Md. Akram Hossain	2009– 2010	<b>2012</b>
64.	Md. Shahidul Islam	2009– 2010	<b>2012</b>
65.	Sulma Sultana	2009 - 2010	<b>2012</b>
66.	Jannatul Fatema	2010 - 2011	<b>2013</b>

67	Shahnaz Pervin Lucky	2010 - 2011	2013
68	Ahmed Jobaer	2011 – 2012	2014
69	Md. Jahir Hossain	2011 – 2012	2014
70	Most. Jannatul Naim	2011 - 2012	2014
71	Md. Robel	2012 - 2013	2015
72	Newton Mondal	2012 – 2013	2015
73	Md. Anisul Islam	2012 – 2013	2015
74	Md. Faisal Hossain	2013 - 2014	2016
75	Md. Abdul Hakim	2013 – 2014	2016
76	Shahnaz Begum	2013 – 2014	2016
77	S. M. Ashik –e-Helal	2014 – 2015	2017
78	Prosenjit Roy	2014 - 2015	2017
79	Sumaira Aziz	2014 – 2015	2017
80	Fahima Farhana	2015 – 2016	2017
81	Tanjina Akhtar	2015 – 2016	2017
82	Esham Mahmood	2015 – 2016	2017
83	Yasmin Akhtar	2016 – 2017	2018
84	Md. Mamunur Rashid	2016 – 2017	2018
85	Md. Ohi Uddin	2016 – 2017	2018
86	Md. Monirul Islam	2016 - 2017	2018
87	Md. Emdadul Hoque	2017 – 2018	2019
88	Shaifa Abrarin	2017 – 2018	2019
89	Md. Emran Hossain Mollah	2017 – 2018	2019
90	Md. Lajin Meah	2018 – 2019	2019
91	Tahmina Akhtar	2018 – 2019	2019
92	Jihan Meah	2018 – 2019	2019
93	Arifur Rahman	2019 – 2020	2020
94	Md. A. K. Azad	2019 – 2020	2020
95	Md. Amjad Hossain	2019 – 2020	2020

#### **MS Project Supervised**

96	Nayan kumar Shil	2015 - 2016	2017
97	Md. Balayet Hossain	2015 – 2016	2017
98	Jannat-un Nayem	2016 – 2017	2018
99	Umme Subah Salsabil	2016 – 2017	2018
100	Ghafur Jala Dash	2017 – 2018	2019
101	Liton Dash	2017 – 2018	2019
102	Rifat Sharmin	2017 – 2018	2019
103	Raihani Zannat Fatima	2018 – 2019	2020
104	Kazi Zahidul Islam	2018 - 2019	2020

#### **Message to Students**

Over the years I have learnt that certain basic values in life are virtually important so that one Can lives with grace and dignity. I hope that these will be source of guidance to others, to my students and to my children. I have summarized these in the below:

- Any amount of Public money must have self-responsibility regarding its accountability and transparency.
- Don't wait to gain knowledge for tomorrow, because tomorrow's Sun you may never be seen.
- Let the acquisition of knowledge be a life – long passion – for knowledge will turn you into a jewel. Bless are those can illuminate others around them by spreading knowledge far and wide.
- Be fearless in speaking the truth – since it is the suppression of truth which is the source of most evils .
- Value integrity above all else – for men without honor are a shame to humanity.
- Have the courage to stand up for what you believe in, but do not let arrogance distorted your personality – Knowledge leads to humanity and ignorance to arrogance.



## 29. Images of Delivering Plenary & Keynote Lectures in abroad:



Delivering a Plenary Lecture in the *International Chemical Congress (ICC-18)* which was held at Tribhuvan University, **Nepal**, Organized by Nepal Chemical Society on 8 March, 2018



Presenting a Plenary Lecture in the *Wayamba International Conference (WinC-2018)* which was held at Wayamba University of **Sri Lanka** on 25 August, 2018



Delivering a Plenary Lecture in the “*2<sup>nd</sup> International Conference on Environmental Horizon, Greening the Blue*” which was held at Istanbul, **Turkey** on 16 Sept.2012



Presenting a Keynote Lecture in the 18<sup>th</sup> Asian Chemical Congress which was held at Taipei, **Taiwan** during 8-12 December, 2019

## 30. Teachers who have similar interest:



**Md. Nazrul Islam**  
Associate Professor



**Dr. Md. Didarul Alam Chowdhury**  
Assistant Professor