

Profile of Professor Dr. M. Jamaluddin Ahmed, FRSC, FRS

Short Biography:

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

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

Prof. Ahmed has an illustrious career with outstanding contributions as an academician, chemist, and an initiator of analytical culture in Bangladesh. He is a highly cited eminent analytical scientist and a genuine patriot. He is a Distinguished Professor and served in the Department of Chemistry, University of Chittagong (CU) for more than 41 years since 1981, first as a Lecturer and finally as a Selection Grade Professor. He is the former Dean, Provost & 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. He has more than two years' experience as the Vice Chancellor of Feni University from 13 October, 2022 to up-to-date. His main field of work is in [Analytical & Bio-Analytical Chemistry, Pharmaceutical Chemistry, Environmental, Food & Nutrition, & 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 University of Queensland, Australia and University of Chinese Academy of Sciences, Beijing. He supervised research works of more than 120 post-graduate students (12 PhD, 8 M. Phil & 100 MS students) at home & abroad. His research activities over last 41 years resulted over 220 publications in high-ranked Scientific Journals including 249 research publications in Peer Reviewed International Journals, 1 Patent, and 8 research Books published by major European Presses with total impact factor = 538.6, number of citations >18,995, RG Score=51.41, h-index=59, i10-index=180 & Reads >2,70,795. Find out more about Ahmed's research over on his [webpage: https://www.comstech.org](https://www.comstech.org). He has been participated several International and National Conferences at home and abroad and presented 65 research articles as Theme, Plenary, Keynote and Invited Lectures & Conducted the 40 Technical Sessions as Chair. Prof. Ahmed has been honored by several prestigious international Fellowships, Memberships and Awards including Elected Fellow Chartered Chemist of the Royal Society in 2021. Life Fellow of the Royal Society (FRS) since 2020. Fellow of RSC since 2001, TWAS since 2006 & UNESCO since 1999, respectively. Elected Life Member of American Chemical Society & Elected Member of Analytical Division of IUPAC, ACS and RSC, respectively. He was Awarded Chartered Scientist (CSci.) by European Science Council (EU) in 2004 and Chartered Chemist (CChem.) by Royal Society of Chemistry (UK) since 1993. He is the Chief Editor of JBCS & JFU & Executive Editor of CUJS & Editors of several reputed Journals at home & abroad. He is the founding General Secretary and Convener of Chemistry Olympiad of Bangladesh Chemical Society of Chittagong Region. He is Life Member of BCS since 1985, BAAS since 1989 & NITUB since 2017, etc. As an administrator, Prof. Ahmed has left his mark in several national spheres of Govt.

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1. Education:



Educational Qualifications:

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: Chemistry, Minor: Phys. & Math.
M. Sc. (Thesis)	1977 (held in 1980)	Chittagong University	First Class (2 nd Position) (Physical-Inorganic Branch)
Ph. D. (Science)	1990 (1986 - 1989)	Jadavpur University, Calcutta, India	Awarded in Analytical Chemistry, Title of Thesis: "Spectrofluorimetric Determination of Some Toxic & Geno-toxic Inorganic" Govt. of India Scholar.
Post-Doctoral Fellow	2000-2001=1year	Loughborough University, UK	Title: Separation Sciences: "Separation & Determination of Glycosides, Amino acids and Protein by HPLC" as a Commonwealth Fellow (Supervisor: Prof. R. M. Smith)
Post-Doctoral Fellow	1995-1996=1year	University of Ioannina, Ioannina, Greece	Title: "Simultaneous Determination of Speciation of Some Toxic and Heavy Metals by FIA Using Photometric & Fluorimetric Detectors" as a Greek Govt. Fellow (Supervisor: Prof. M.I. Karayannis)
Fellow Chartered Chemist of the Royal Society	2001 & 2021	Royal Society of Chemistry (UK)	Admitted (Elected) as a CChem. FRSC (UK) since 2001 & Admitted as the Fellow Chartered Chemist of the Royal Society (FRSC CChem) (UK) in 2021.



Chartered Scientist	2004	European Science Council of European Union (EU) at UK	Admitted (Elected) as a Chartered Scientist (CSci.) by the European Science Council (EU)
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2. Experience: Professional Experience

Post	Institution	Period(From – To)	Nature of Duties
Lecturer	Department of Chemistry University of Chittagong	1 April, 1981 -29 Dec. 1984 = 3.75 years	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 = 8.00 years	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 = 3.5 years	Establishment of Analytical Lab for Post-graduate Research. Teaching , Research and Administration
Professor (Grade-1)	Department of Chemistry University of Chittagong	23 Nov. 1995 – till June, 2020 = 25 years Total= 3.75+8.00+3.5+25 = 41 years	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.
Chairman Department of Chemistry	Department of Chemistry University of Chittagong	6 June, 2010 – 5 June, 2013 = 3 (Three) years	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.
Vice Chancellor	Feni University Feni-3900	13 October, 2022 – Up-to-date, ≈ more than 2 years	.Administrative works both for Officials and Academic. Chairman of both Syndicate & Academic Council, Chairman of Selection Committees of Teachers and Officers, etc Successfully completed 1st Convocation,2023
Visiting Professor (honorary)	Center of Excellence in Analytical Chemistry, University of Sindh (SU),	July, 2003 - June, 2013 = 10 years Under MoU between CU & SU	During his visits there he has actively participated in postgraduate research in Analytical Chemistry which included lectures and supervision of M.Phil. & PhD research Fellows and produced 4 PhD with several International Publications to his credit.

At a Glance

3. Latest Achievements:

-  Elected as a Life Fellow of the Royal Society (FRS) (UK), 2020,
-  Fellow Chartered Chemist of the Royal Society (FRSC CChem.) (UK) in 2021
-  Elected as a Life Member (honorary) of American Chemical Society (USA), 2019  ACS
-  Elected of COMSTech of OIC in 2020
-  Elected Member of Analytical Division of IUPAC in 2018 and ACS in 2019, respectively.
- Member Appointed Executive Editor of —The Chittagong University J. of Sciencell for 2018 - 2020 by University of Chittagong,  Editor: J. of —Eurasian Chemical CommunicationsII since 2020
- Editor in Chief; Journal of Bangladesh Chemical Society and Feni University Journal

4. Quick Access:

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

Recharchgate: https://www.researchgate.net/profile/M_Ahmed10/publication;

Pu Publons: <https://publons.com/researcher/AAM-9284-2020/>

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

Webpage: https://www.cu.ac.bd/public_profile/index.php?ein=2087

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

5. Research Expertise:

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

►Prof. Ahmed has more than 41 years Teaching, Research & Administrative Experiences. He supervised Research works of more than 125 post-graduate students (12 PhD, 8 MPhil & more than 100 MS students) at home & abroad. 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.

(i)Prof. Ahmed worked for more than 41 years on the Development, of new Analytical Methods based on Modern Spectroscopic Techniques (AAS, AHG-AAS, ICP-MS, ICP-OES, FTIR, ¹NMR & ¹³NMR Mass Spectrometry, Spectrophotometry, Spectrofluorimetry, FIA, etc.), Electroanalytical Techniques (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 pesticides & 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) Physicochemical assessment pollutants due Ship-breaking of Bangladesh vii) Chemical assessment of gaseous pollutants, particulate matters and trace- metals in the air of major cities of Bangladesh viii) Development of Photo-electrochemical Sensors for the Detection of DNA Damage Induced by Some Nano-particles, ix) Food, Pharmaceutical and Environmental Analysis at Femto- & Atto-trace Levels. Green and Nano-Chemical Analyses. His research was supported and funded by many European and National sources.

5(a). Current Research Interest:

Research Interest >11,875

- 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, geno toxic, 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, AGH-AAS, FTIR, ¹HNMR, Mass Spectrometry, FIA, Spectrofluorimeter, UV/Vis-Spectrophotometer, Anodic S. 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, pesticides residues, amino acids and proteins 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 Spectrophotmetry, 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).
Physicochemical assessment of Pollutants discharge due to Ship-breaking in Bangladesh (AAS, Combo meter

6. Administrative Experiences:

As an administrator, Prof. Ahmed has left his mark in several national spheres of the Govt. of Bangladesh e.g. Chemicals Safety and Security, Laboratory Accreditation ISO/IEC 17025, Sustainable Water Management (SDG-6), Climate Change: Causes, Effects & Solutions &'Stopping Toxic Plastic Waste Trade and its Trans Boundary Movements', etc.

1. Vice Chancellor: Feni University, Feni -3900, from 13 October, 2022 to up –to-date ≈ more than 2 years

- 2.. **Chairman, Department of Chemistry, University of Chittagong from 6 June, 2010 to 5 June, 2013 Total=3 years.**
He has successfully completed **JDCF Project of BDTaka 8 Cores** by Constructed a 4(four) storied Building by BDT 2.5 Cores and purchasing Sophisticated Instruments for Laboratories of Advanced Research in Chemistry by BDT 5.5 Cores. Successfully completed different Research Projects of BDT 2 Cores of Ministry of Sciences & Technology, Govt. of Bangladesh
3. **Dean in the Faculty of Science for 2 years, and Provost for 3 years of Shahjalal Hall at CU, respectively**
4. **Member of Central Purchase Committee of Chittagong University from 1996 to 1999 (two terms)**
5. **Member of Academic Council & Board of Advance Studies of Chittagong University since 1995 and Member of the Faculty of Science since 1992.** He was a Member of Governing body of several Colleges under CU.
6. **Member of Planning and Academic Committees** in Department of Chemistry at Chittagong University since 1981,
7. **Chairman and Member of different Examination Committees** of Under- and Post-graduate Examinations.
8. Senior most Professors in the Faculty of Science since 2014 & senior most Professors at Chittagong University since 2017
9. **Member of the Selection Committees: CU, CUET, KU, AMU, Jad.U.MU, BHU, SU, KU, BZU, PU, KAU & KFU**
10. **House Tutor of Shahjalal Hall from 1981 to 1994=12 years** (except 1986-1989).
11. **Sectional Head of Inorganic Chemistry Section from 2013 to 2020 as senior most Professor of the Dept. of Chemistry**
12. **Founder General Secretary of Bangladesh Chemical Society of Chittagong Region since 2009 to up-to-date.**

6(a). Organizing Capacity:

Organizer of the National and International Conferences/ Workshops/ Chemistry Olympiads:

Prof. Ahmed has been a pioneer in organizing the scientific community in the country to work as a group.

1. **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 - 10 December, 2003 & International Conference on Analytical Sciences during 10 -12 September, 2007**
2. He was organizing the **38th Annual Conference of Bangladesh Chemical Society as a Founder General Secretary Bangladesh Chemical Society of Chittagong Region** which was held at Chittagong Port Building on **31 March, 2017.**
3. Prof. Ahmed is the **Founder Convener of Organizing Committee of Bangladesh Chemistry Olympiad** of Bangladesh Chemical Society of Chittagong Region to Organize Bangladesh Chemistry Olympiad of Chittagong Region to Popularize Chemistry at Higher Secondary Levels for almost a decade from **2008 to 2021**

7. Foreign Scholarships / 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 University of Queensland, 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 from 2000 to 2001**
7. **TWAS Fellowship for pursuing Post-Doctoral Research at University of Chinese Academy of Sciences, Beijing, in 2006**
8. **TWAS Fellowship for pursuing Post-Doctoral Research at University of Chinese Academy of Sciences, Beijing in 2009**

8. Publications:

More than **249 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 35 Technical Sessions as Chair (**Please see the Appendix-2**). He is author of **8 (Eight) Research Books** have been published by Lap Lambert, Academic Publisher. Saarbrücken, **Germany, Brussels, EU** and Book Publishers International, London, **UK**, respectively and **one Patent, 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 Secretariat, **London, UK, 2001.** **3 more books** under in Process for Publications. **His research work was Cited by the more than>18,995 other Scientists and Readers>2,70,795, Recommendations>845, RI=11,875** (Please see the List of most recent and frequently Cited Papers in the Appendix-I)

► **Patent:**

8(a) 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, Norderstedt, 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

Appendix – I

8(b) List of Selected, Recent and Frequently Cited some Papers:

Total I.F. = 538.6

1. M. Jamaluddin Ahmed and M. Lajin Meah, "A New Simple, Highly Sensitive and Selective Spectrofluorimetric Method for the Speciation of Thallium at Pico-trace Levels in Various Complex Matrices Using N-(pyridin-2-yl)-quinoline-2-carbothioamide", *RSC Advances*, **2021**, 11, 32312 - 32328
DOI: <https://doi.org/10.1039/d1ra05388d> I. F. = 3.51 (published by RSC, UK)
2. M. Jamaluddin Ahmed, M. Jihan Uddin and M. Emdadul Hoque, "Development of a New Highly Sensitive and Selective Spectrophotometric Method for the Determination of Selenium at Nano-trace Levels in Various Complex Matrices Using Salicylaldehyde-orthoaminophenol", *European Journal of Chemistry*, **2021**, 12(4), 469-481
DOI: <https://10.5155/eurjchem.12.4.469-481.2137> I. F. = 1.56 (published from USA)
3. M. Jamaluddin Ahmed and Tahmina Happy, "Development of a New Highly Sensitive and Selective Spectrophotometric Method for the Determination of Cobalt at Nano-trace Levels in Various Complex Matrices Using N, N'-Bis(salicylidene)-ethylenediamine", *European Journal of Chemistry*, **2022**, 13 (1), 20 - 32
DOI: <https://dx.doi.org/10.5155/eurjchem.13.1.20-32.2139> I. F. = 1.56 (published from USA)
4. M. Jamaluddin Ahmed, M. Anisul Islam and M. Edris Ali, "Studies of Toxic and Heavy Metals Pollution of Karnafuli River and Its Impact on the Public Health of Chittagong, Bangladesh" *North American Academic Research*, **2021**, 4 (2), 199 – 239.
DOI : <https://doi.org/10.5281/zenodo.4564142> I. F. = 2.15 (published by TWASP, USA)

5. **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 *N*-(pyridin-2-yl)-quinoline-2-carbothioamide", *European Journal of Chemistry*, **2021**, 12(1), 1 – 12
DOI: <https://10.5155/eurjchem.12.1.1-12.2031> I. F. = 1.56 (published from USA)
6. **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. = 3.25 (published from Israel)
7. **M. Jamaluddin Ahmed**, Shaifa Abrarin "A Highly Sensitive and Selective Spectrophotometric Method for the Determination of Vanadium at Nano-trace Levels in Some Real, Environmental, Biological, Food and Soil Samples Using Salicylaldehydebenzoylhydrazone", *European Journal of Chemistry*, **2020**, 11 (4), 385 – 395.
DOI: <https://10.5155/eurjchem.11.4.385-395.2030> I. F. = 1.56 (published from USA)
8. **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. = 2.15 (published by TWASP, USA)
9. **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. = 1.56 (published from USA)
10. **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. = 1.56 (published from USA)
11. **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. = 2.15 (published by TWASP, USA)
12. **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 (published from India)
13. **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. = 2.55 (published from Japan)
14. **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-(α -Pyridyl)-thioquinadine", *RSC Advances*, **2019**, 9, 25609 – 25626.
DOI: <https://doi.org/10.1039/c9ra02850a> I. F. = 3.51 (published by RSC, UK)
15. **M. Jamaluddin Ahmed**, Abdul Hakim, Faisal Hossain, and Israt Jahan, , "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. = 2.15 (published by TWASP, USA)

16. **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 (published from India)
17. **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-(α -Pyridyl)-thioquinaldinamide”, *American Journal of Analytical Chemistry*, **2019**, 10(8), 316 – 347.
DOI: <https://doi.org/10.4236/ajac.2019.108023> I. F. = 1.75 (published by SCIRP, USA)
18. **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-(α -Pyridyl)-thioquinaldinamide”, *American Journal of Analytical Chemistry*, **2019**, 10(11), 528 – 561.
DOI: <https://doi.org/10.4236/ajac.2019.1011038> I. F. = 1.75 (published SCIRP, USA)
19. **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. = 2.15 (published by TWASP, USA)
20. **M. Jamaluddin Ahmed**, Tazul Islam and Prosenjit Ray, “A Highly Sensitive and Selective Spectrofluorimetric Method for the 2-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 (published from Belgium)
21. **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 (published from Pakistan)
22. **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 (published from Belgium)
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Researchgate: https://www.researchgate.net/profile/M_Ahmed10/publication, **I. F.=538.6**
Citations > 18,995

R^e **h – Index= 59**

9. Fellow / Life Member of Several Prestigious International Learned Societies:

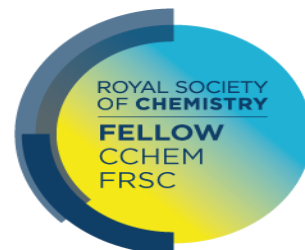
- Elected as a Fellow & Life Member of RS in 2020 & Fellow Chartered Chemist of Royal Society(FRSC CChem)in 2001
- Elected as a Life Member (honorary) of American Chemical Society, 2019
- Elected Fellow Life Member of World Researchers Association (FWRA) since, 2000
- Elected Members of Analytical Division of IUPAC in 2016, RSC in 1997 and ACS in 2019, respectively
- Elected Fellow life Member Institute of Instrumental Engineers and Technologists of India, since 1990
- Elected Fellow of TWAS since 2006 & UNESCO since 1999, respectively
- Elected Life Member of Islamic World Academy of Sciences (OIC) , Amman, since 2005
- 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 Society for Environmental Science (BSS) since, 2012

10. Awards and Honours: Prof. Ahmed has been honoured for his achievements by number of awards:

- Prof. Ahmed has been awarded the RSC Best Award-2021 “Fellow Chartered Chemist” by the Royal Society of Chemistry on 18 March, 2021 in the recognition of his Outstanding Contribution in Research for the Teaching and Learning of Chemistry. Credential ID: 30159321.
- Prof. Ahmed is the honorary Life Member of American Chemical Society.
- He is Awarded (Elected) Chartered Scientist by European Science Council(EU)
- He is Awarded (Elected) Chartered Chemist of RSC(UK)
- Prof. Ahmed has been awarded the prestigious “BAAS Award for Best Presentation” by the President, Govt. of Bangladesh in 1994 & “Certificate of Merit Award” in “The 18th Asian Chemical Congress (18th ACC)” which was held at Taipei, Taiwan, 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 in 1999..
- Prof. Ahmed got “RSC best Poster Award” at Birmingham in 2001. He got best awards for the best research Paper Presentations from India, Turkey, Pakistan Nepal, Sri Lanka & Taiwan in 1999, 2012, 2014 & 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 886.
- He has been Awarded for the best Researcher by the Analytical Division of Royal Society of Chemistry, UK in 2003 and 2008, respectively.

RSC Best Award, 2021 to

Prof. Dr. M. J. Ahmed, CSci. CChem.
FRSC, FRS
Credential ID: 30159321 on 18 March
2021



**Fellow Chartered Chemist
(FRSC CChem)**



11. Conferences & Seminars Attended:

Appendix –2

Theme / Plenary / Keynote / Invited Lectures Delivered in Several International and National Conferences, Seminars, Symposiums in Europe, Asia & Australia and Presented More than 61 Research Articles and Conducted More than 35 Technical Sessions as a Chair:

1. Presented virtually Paper ID: 3595444 as an Invited Speaker of the Division of Environmental Chemistry on “Most Dangerous Pollutants on the Planet”: Causes and Effects of Plastic Pollution in Bangladesh ” in *ACS Fall 2021, Resilience of Chemistry “Urban Pollution Control for Next Generation: A Challenge for Environmental Chemists and Engineers”*, Organized by American Chemical Society which was held at Georgia World Congress Center, **Atlanta GA 30313, USA** during 23 - 26 August, 2021
2. Participated and delivered a Keynote Lecture in “The 10th Global Conference on Materials Science and Engineering” on “A New Simple, Highly Sensitive and Selective Spectrofluorimetric Method for the Speciation of Thallium at Pico-trace Levels in Various Complex Matrices Using PQCTA” which was held Virtually in the **TS National of University of Kyiv, Ukraine** during 1 - 4 August, 2021.
3. Participated and delivered a Keynote Lecture in “International Conference on Science and Technology for Celebrating the Birth Centenary of Bangabandhu (ICSTB-2021)” on “The Most Dangerous Pollutant on the Planet” Plastic Pollution in Bangladesh: Causes, Effects & Solutions” at **BCSIR Laboratories, Dhaka** and Conducted 3rd Technical Session on Analytical and Environmental Chemistry as a Chair during 11-13, 2021.
4. Participated and delivered a Keynote Lecture in “*The 1st International Industrial Chemistry Conference, 2021 (IICC-21)*” on “*University-Industry Interaction in Bangladesh: Benefit, Challenges & Barriers*” Organized by **NED University of Engineering & Technology, Karachi**, and Conducted 1st Technical Session on Analytical and Environmental Chemistry as a Chair which was held in the Dept. of Chemistry, NED UET, Karachi during 26 - 28 February, 2021
5. 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.
6. 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

7. Participated and delivered a Keynote Lecture in *"The 18th Asian Chemical Congress (18th 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
8. Participated and delivered a Keynote Lecture 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
9. Participated & Presented as a Keynote Lecture in the *"40th 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
10. 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.
11. Participated & Presented a Keynote Lecture in the *"14th 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 14th International Symposium on Natural Product Chemistry, 2018*, KL-A-4, 11.
12. 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
13. 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.
14. 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, Kuliypitiya, Sri Lanka** during 24-25 August, 2018
15. 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
16. Participated and delivered an Invited Lecture on *"Basic Principles, Instrumentation, Applications and Trouble-shooting of AAS"* as a Resource Person in the *65th Training Programme of NITUB on the use. Maintenance and Trouble-shooting of Common Laboratory Equipment"* which was held in the Dept. of Chemistry, University of Chittagong during 14 - 19 October, 2017
17. 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
18. 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
19. Participated and delivered a Invited Lecture in the *"17th Asian Chemical Congress (17ACC)"* Sponsored by **Australian Chemical Society** which was held at Melbourne University, Australia during 17-22 July, 2017.
20. Participated and delivered a Keynote Lecture on 'Chemistry for Food Safety' in the *"38th 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
21. Participated and delivered a Keynote Lecture in the *"16th Asian Chemical Congress(16ACC)"* Sponsored by **Asian Chemical Society** and Conducted a Technical Session on Analytical and Environmental Chemistry as a Chair which was held at BUET & Dhaka University Sponsored by Bangladesh Chemical Society during 16-19 March, 2016
22. Participated and delivered a Theme Lecture on 'Chemistry for Green Living' in the *"37th Annual Conference of Bangladesh Chemical Society"* which was held at Comilla University, Comilla, on 14 April, 2015

23. Participated and delivered a Plenary Lecture in the “*2nd 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
24. Participated and delivered a Plenary Lecture in the “*3rd 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, Istanbul, Turkey during 13-15 September, 2012.
25. 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
26. 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
27. Participated and delivered an Invited Lecture in the “*2nd Pak-Turk International Conference on Chemical Sciences*” was held at University of Sindh, Jamshoro, Pakistan during 13 - 16 February, 2010.
28. 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.
29. Participated and presented a Plenary Lecture in the “*4th 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.
30. Participated and presented a Plenary Lecture in the “*2nd 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.
31. Participated and presented an Invited lecture in the “*4th International & 14th National Chemistry Conference*” organized by the Chemical Society of Pakistan at PCSIR Laboratories Complex, Lahore, Pakistan, 16 – 18 May, 2004.
32. 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.
33. Participated and presented a paper as an Invited Lecture 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.
34. Participated and presented a paper orally in the “*Analytical Research Forum*” organized by Royal Society of Chemistry at University of East Anglia, Norwich, UK, 16 -18 July, 2001.
35. 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.
36. 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.
37. 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
38. Participated and presented an Invited Lecture in “*The International Symposium on Instrumentation & Control of Environmental pollution*” which was held in Calcutta University, India from 29-31 January, 1994.
39. Participated and presented papers in the 6th, 7th, 8th, 15th, 16th, 18th, 19th, 20th, 21st, 22nd, 24th, 26th, 27th, 28th, 29th, 31st, 32nd, 34th and 36th *Bi-annual Conferences of Bangladesh Chemical Society* which were 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.
40. Participated and presented papers in the 6th & 7th, 8th, 10th, 16th, 17th, 18th, 19th, 20th *Annual Conferences of Bangladesh Association for the Advancement of Sciences* which were 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.

41. Participated and presented papers in the “25th, 26th, 27th and 28th Annual Conferences of Indian Chemical Society” which were held at Calcutta, Tirupati, Hyderabad and Jadavpur University, India in 1988, 1989, 1990 and 1991, respectively.
42. Participated and presented papers in the “25th, 26th, 27th and 28th Annual Conferences of Indian Chemical Society” which were held at Calcutta, Tirupati, Hyderabad and Jadavpur University, India in 1988, 1989, 1990 and 1991, respectively.

12. Foreign Scientific Training from Europe, Asia and Australia:

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, India	For pursuing PhD Course	Govt. of India Scholarship	Prof. B.K. Pal, Dept. of Chemistry , Jadavpur University, Calcutta -32, India
February 1995 – February, 1996 = 1 (One) year	University of Ioannina, Ioannina, Greece	For pursuing Postdoctoral Research	S.S.F. of Greece Fellowship	Prof. M.I. Karayannis, Dept. of Chemistry, University of Ioannina, Greece
Mar–Aug, 1997 = 6 months	The University of Queensland, Brisbane, Australia	Pursuing Postdoctoral Research	Commonwealth Science Council Fellowship, UK	Prof. M. R. Moore, Director, National Research Centre for Environmental Toxicology. The University of Queensland, Brisbane, Australia
October, 2000 – September 2001 = 1 (One) year	Loughborough University, U.K.	For pursuing Postdoctoral Research	Commonwealth Commission Fellowship, UK	Prof. R. M. Smith, Dept. of Chemistry, Loughborough University, U.K.
Nov.-Dec. 1999 = 2 months	IIT, Madras, India	Visiting Professor	UNESCO Fellowship	Prof. N. Balasubramanian, Dept. of Chemistry, IIT, Madras, India
April-June, 2006 = 3 (Three) months	Institute of Chemistry, CAS, Beijing, China .	For pursuing Postdoctoral Research	TWAS Fellowship, Trieste, Italy	Prof. Yi Chen, Institute of Chemistry, University of Chinese Academy of Sciences , Beijing, China
April-June, 2009 3 (Three) months	Research Center Eco-Environmental Sciences, China	For pursuing Postdoctoral Research	TWAS Fellowship, Trieste, Italy	Prof. Liang-Hong Guo, Research Centre for Eco-Environmental Sciences University of Chinese Academy of Sciences, Beijing, China
February, 1995 = 1 (One) month	National Physical Laboratory, CSIR, New Delhi, India	—Asian Workshop & Training Course on Methane StudiesII	Commonwealth Science Council Fellowship, UK (Under CREN)	Dr. D. C. Parashar, Deputy Director, National Physical Laboratory, CSIR, Pusha, New Delhi-110012,, India

13. Foreign Referees:

Professor Ahmed is one of the World's leading Analytical & Environmental Scientists. He has received great remarks from following Eminent Scientists in the field of Analytical Chemistry & Environmental Sciences from **Europe, Australia & Asia**.

1. Professor Roger M. Smith Emeritus Professor of Analytical Chemistry



Loughborough University, Loughborough
Leicestershire, LE11 3TU, UK
E;mail: R.M.Smith@lboro.ac.uk
Phone: +44 (0) 1509222550

2. Professor M. I. Karayannis Emeritus Professor of Analytical Chemistry



University of Ioannina
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<p>3. Prof. Osman Yavuz Ataman Emeritus Professor of Analytical Chemistry</p>  <p>Department of Chemistry Middle East Technical University, Ankara, Turkey. E-mai: ataman@metu.edu.tr Phone: +90 -312-210200</p>	<p>4. Professor Dr. Michael Ritchie Moore Emeritus Professor of Chemical Toxicology</p>  <p>National Research Center for Environmental Toxicology The University of Queensland 39 Kassel Road, Brisbane-4108, Australia Phone: +61-7-33651111 / 34432443 E-mail: m.moore@uq.edu.au</p>
<p>5. Prof. M. Iqbal Bhangar Professor & Ex-Director</p>  <p>Center of Excellence in Analytical Chemistry University of Sindh, Jamshoro, Pakistan E-mail: dbhangar2000@gmail.com Mobile: +92-3332724217</p>	<p>6. Dr. D. C. Parashar 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: dcparashar@nplindia.org</p>
<p>7. Professor Dr. Yi Chen 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: chenyi@iccas.ac.cn Mobile: 010-6268240</p>	<p>8. Prof. Dr. Ling-Kang Liu Emeritus Professor of Analytical Chemistry</p>  <p>Academia Sinica National Taiwan University Taipei, Taiwan E-mail: liuu@chem.sinica.edu.tw Mobile: +886-2-27831237</p>

14. Citations:

More than **249 Research papers** have been published in International peer reviewed Journals of Analytical Chemistry, Environmental Chemistry and pharmaceutical Chemistry and of high Impact numbers. **His research work was Cited by the more than >18,995 other Scientists and Readers>2,70,795, Recommendations>845, RI=11,875, he has more than 200 Publications in Q1 Journals & 50 Publications in Q2 Journals.**

15. Contact:

- a). Present: **Professor Dr. M. Jamaluddin Ahmed, FRSC, FRS**
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