Curriculum Vitae
Of
Dr. Nafees Ahmed

1. PERSONAL INFORMATION

Name: Ahmed, Nafees
Gender: Male
Marital Status: Married
Date of Writing the CV: 20/01/2024
E-mail address: nafees@chem.jnu.ac.bd
Contact No.: +880-1913123498

2. BIRTH CONCERN

Date and Place of Birth: 21/11/1981, Dhaka
Citizenship: Bangladeshi
Current Residence: 10, Md. Asgar Lane, Chawk Bazar (SetaraManzil, 3rd floor),Dhaka-1211, Bangladesh.

3. EDUCATION AND DEGREES AWARDED:

Degree	Institution	Department/ Group	Major	Year
Ph.D.	Hokkaido University, Japan	Division of Biological Sciences	Polymer Science	2011
M.S.	University of Dhaka, Bangladesh	Chemistry	Physical Chemistry	2004 (Exam. Held in 2007)
B.Sc. (Hons)	University of Dhaka, Bangladesh	Chemistry	Chemistry	2003 (Exam. Held in 2005)
H.S.C.	Bangladesh Rifles School & College, Dhaka, Bangladesh	Science Group	-	1999
S.S.C.	Armanitola Govt. High School, Dhaka, Bangladesh.	Science Group	-	1997

4. OTHER EDUCATION AND TRAINING, QUALIFICATIONS AND SKILLS:

Training Type	Institution	Course Title	Duration
English Language Training	Department of English, University of Dhaka	Intensive Course in Basic English	May 15, 1997-August 1, 1997
Computer	Dhakatech Computer Training Center	Basic Course in Computer	March 2006-June 2006
Teaching	Stamford University Bangladesh	Faculty Development Program	April 20, 2012-April 27, 2012
Web management	Department of Computer Science and Engineering, Jagannath University	Basic Web Maintenance	October 07-09, 2012

5. LINGUISTIC SKILLS:

Languages	Proficiency		
	Reading	**Writing**	**Speaking**
Bengali	Excellent	Very Good	Mother Tongue
English	Very Good	Good	Excellent
Hindi	Good	Good	Very Good
Japanese	Poor	Fair	Good

6. WORKEXPERIENCE:

Institution	Department	Designation	Duration	Service Length
Jagannath University	Department of Chemistry	Professor	03 April 2024 - Present	Current Position
Jagannath University	Department of Chemistry	Associate Professor	19 December 2019- 02 April 2024	04 Years 03 Months 15 Days
Jagannath University	Department of Chemistry	Assistant Professor	1 December 2013- 18 December 2019	06 Years 17 Days
Jagannath University	Department of Chemistry	Lecturer	15 July 2012– 30 November 2013	1 Year 4 Months 15 Days
Stamford University Bangladesh	Natural Science	Lecturer	21 April 2012 – 14 July 2012	2 Months 23 days

7. MERITS IN TEACHING & PEDAGOGICALCOMPETENCE:

- As a teacher of the different courses at different semesters I use to conduct the classes of 3 or 2 credit theory and practical courses. I conduct the tutorials, viva-voce and prepare the continuous assessment at the end of the semester before commencing the final examination.
- I am also involved in an examination committee. The key responsibilities of this committee are arranging the examination on due period of time after the completion of the courses, monitoring the examination (distribution and collection of the answer scripts form the examiners) and finally preparing the results.
- I am now one of the members of the syllabus preparing sub-committee. The main responsibilities are modifying the course curriculum, designing and incorporating new courses in physical chemistry at undergraduate as well as graduate level.
- I supervise graduate students to conduct their research works on surface chemistry, specially the adsorption of inorganic and organic pollutants on different sorts of bioadsorbents. The research works are supervised in terms of laboratory experiments, group discussion, monthly presentation and paper writing.
- Active participation in Chemistry Olympiad at the national level since 2012.

8. AWARDS, PRIZES AND HONOURS:

- I got the Junior Scholarship at Class VIII in 1995.
- I was awarded the Monbukagakusho (MEXT) Scholarship in Japan for pursuing my Ph.D. in 2008.

9. OTHER ACADEMIC MERITS:

- Life Member of Dhaka University Chemistry Alumni Association, DUCAA (LM-086)
- Life Member of Bangladesh Crystallographic Association, BCA (LM-218)
- Life Member of Bangladesh Chemical Society, BCS (LM-1156)
- Member of The Society of Polymer Science, Japan, SPSJ since 2010
- Member of Registration and Publicity Sub-Committee of 16th Asian Chemical Congress 2015 (16ACC)
- Member of SPM Team of the recently completed sub-project (Window-1) entitled 'Advancement in Teaching and Learning at Undergraduate and Master's Level in Chemistry' Under HEQEP (Higher Education Quality Enhancement Project) project (CP-3380) under the AIF (Academic Innovation Fund) grant of UGC (University Grants Commission of Bangladesh) from July 2014-June 2016 and May 2017-September 2018 (supplementary funding).
- Involved in the activities of Internal Quality Assurance Programme launched by HEQEP funded by the World Bank for the academic excellence.
- Co-convener of Souvenir and Publication sub-committee of the 8th Bangladesh Chemistry Olympiad 2017 and Convener of the same sub-committee of the 9th Bangladesh Chemistry Olympiad 2018.
- Joint Secretary, National Committee, Bangladesh STEM Foundation (bdSTEM) for the tenure 2021-2023
- Secretary General, Regional Committee of bdSTEM_JnU for the tenure 2021-2023
- Reviewer of the Science Journal of Chemistry.
- Executive Member of Hokkaido University Alumni Association in Bangladesh, HUAAB (2023-2025)

10. RESEARCH EXPERIENCES:

a) One year research experience in the Physical Chemistry Research Laboratory, University of Dhaka, under the supervision of Professor Tajmeri Selina Akhter Islam. A project work entitled "*Estimation of Equilibrium time for the Adsorption of Arsenic on Used Tea Leavesand Kaolinite"* was successfully completed in 4th year of B.Sc. (Hons).

b) One year researchexperiencein the Physical Chemistry Research Laboratory, University Of Dhakaunder the supervision of professor Tajmeri Selina Akhter Islam. The thesis work entitled "*Removal of As(III) from Water by Used Black Tea Leaves (UBTLs) and Iron Oxide Coated Used Black Tea Leaves (IOC-UBTLs)*" in MS (in Physical Chemistry).

c) Three year research experience as a doctoral student in the Laboratory of Soft & Wet Matter, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Sapporo, Japan, under the supervision of Professor Dr. Jian Ping Gong. The PhD thesis work was entitled"*Study on the Growth Process of Barnacle on Soft Substrates*".

d) I am now supervising postgraduate students to conduct their research works on surface chemistry, specially the adsorption of inorganic and organic pollutants on different sorts of bioadsorbents and polymeric hydrogels.

11. PUBLICATION LISTS:

A. Peer-Reviewed Scientific Articles

1. Nafees Ahmed, Md. Safiqul Islam, Hosne Ara Begum and T. S. A. Islam, "*Removal of As(III) From Water by uncoated and coated Used Black Tea Leaves (UBTLS)*"*Journal of the Bangladesh Chemical Society (JBCS)*, 24(1), 56-62, 2011.

2. Nafees Ahmed, Takayuki Murosaki, Akira Kakugo, Takayuki Kurokawa, Jian Ping Gong, YasuyukiNogata, "*Long-term in situ observation of the growth of barnacle on soft substrates with different elasticity and wettability*", *Soft Matter*, Journal of Royal Society of Chemistry (RSC), 7(16), 7281-7290, 2011.

3. Takayuki Murosaki, Nafees Ahmed, Jian Ping Gong, "*Antifouling properties of hydrogels*", Science & Technology of Adv. Mat. 12, 2011 (online publish: 6 January 2012).

4. Nafees Ahmed, Takayuki Murosaki, Takayuki Kurokawa, Akira Kakugo, ShintaroYashima, YasuyukiNogata,Jian Ping Gong,"*Prolonged morphometric study of barnacle grown on soft substrates of hydrogel and elastomer*", *Biofouling*, 30(3), 271-279, 2014.

5. Md. Nazrul Islam,Nafees Ahmed, Md. Yasin Hossain, A. K. M. Lutfor Rahman, Abida Sultana, "*Effect of pH on the adsorption kinetics of Cr (VI) on sodium chlorite treated coconut coir*", *Bangladesh Journal of Scientific and Industrial Research (BJSIR)*, 51(2), 95-100, 2016.

6. Nafees Ahmed, Md. Nazrul Islam, Md. Yasin Hossain, A. K. M. Lutfor Rahman, Abida Sultana, "*Modified coconut coir to remove hexavalent chromium from aqueous solution*", *Bangladesh Journal of Scientific and Industrial Research (BJSIR),* 54(1), 89-98,2019.

7. Rajib Al Mamun, Aparna Sarkar,A. K. M. LutforRahman,NafeesAhmed, Mamun Sarkar, "*Removal of toxic Congo red dye using water hyacinth petiole*", *Journal of the Chemical Society of Pakistan*, 41(5), 825-833, 2019.

8. Nafees Ahmed, Md. Ataur Rahman, "*Adsorptive removal of 2,4-dichlorophenol from aqueous solution by using used black tea leaves* ", *Journal of the Mexican Chemical Society*, 65(2), 225-236, 2021.

9. Abul Kalam Md. Lutfor Rahman, Aparna Sarker, Nafees Ahmed, Marufa Mustofa, Abdul Awal, "*Efficient removal of toxic textile dye using petiole part (stem) of Nymphaea alba*", *Journal of Pollution*, 7(3), 643-656, 2021.

10. Ike Chimdieze Daniel, William Ghann, IgbokoNdubuisi, Kenneth Okpala, BirolOzturk, Mohammed M. Rahman, Faisal Islam Chowdhury, Md. Nuruzzaman Khan, Md. RezaurRahman, Md. Abdul Majed Patwary, Nafees Ahmed and Jamal Uddin, "*Chemical and Mineralogical Composition Analysis of Different Nigerian Metakaolins*", Journal of Applied Science and Process Engineering, 8(2), 953-964, 2021.

11. Md. Ataur Rahman, Muhammad Zamir Hossain, Nafees Ahmed, "*Adsorption isotherms of 2,4-dichlorophenol onto lignocellulosic material, used black tea leaves*", International Journal of Advanced Engineering, 5(2), 1-8, 2022.

12. Nafees Ahmed, Md. Yasin Hossain, Joyanta Kumar Saha, Mohammad Al Mamun, A. K. M. Lutfor Rahman, Jamal Uddin, Abdul Awal, Md. Shajahan, "*Adsorptive removal of crystal violet dye from aqueous solution onto coconut coir*", Chemical Industry & Chemical Engineering Quarterly, 29(1), 11-23, (2023).

13. Joyanta K. Saha, Nafees Ahmed and A. J. Saleh Ahammad, "*Interaction of catechol and hydroquinone with carbon nanotube*", Journal of Bangladesh Chemical Society, 34(1), 15-18 (2022)

14. Mahmudur Rahman, Zunayed Mahmud Shuvo, Md. Arifur Rahman, Nafees Ahmed, Md. Mizanul Hassan, Ayesha Sharmin, Aysha AkterLaboni, Mala Khan, Md.Waliul Islam, Md. Al-Mamun, Subrata Chandra Roy and Joyanta Kumar Saha, "*Catalytic pyrolysis of single-use waste polyethylene for the production of liquid hydrocarbon using modified bentonite catalyst*", European Journal of Inorganic Chemistry (Wiley), 2022 (34), 2022, https://doi.org/10.1002/ejic.202200409(2022).

15. Mahmudur Rahman, Bijoy Kumar Mondal, Nafees Ahmed and Md. Delwar Hossain, "*Catalytic pyrolysis of waste high density polyethylene (HDPE) and low density polyethylene (LDPE) using silica-alumina catalyst*", Journal of Bangladesh Academy of Sciences, 47(2), 197-205 (2023). https://doi.org/10.3329/jbas.v47i2.67950

16. Mahmudur Rahman, Muhammad Omar Faruk, Md Waliul Islam, Moni Akter, Joyanta K. Saha, Nafees Ahmed, Ayesha Sharmin, Md. AzizulHoque**,** MirolaAfroze, and Mala Khan, Umme Sarmeen Akhtar,MdMainul Hossain, "*Comparison of the effect of kaolin and bentonite clay (raw, acid treated, and metal impregnated) on the pyrolysis of waste tyre*", ACS Omega, 9, 474-485, https://doi.org/10.1021/acsomega.3c05951 (2024).

17. Md. Lutfor Rahman, Abida Sultana, Nafees Ahmed, A J M TahuranNeger, Shamim Ahmed, "*Thermodynamic and kinetic studieson the adsorption of 2,4-dichlorophenol onto coconut coir*", recently submitted to the Journal of Environmental Engineering and Science (2023).

18. Fazria Tanjum, Mohammad Lokman Hossain, Mahmudur Rahman, Jamal Uddin and Nafees Ahmed, "*Sorption of crystal violet dye on chemically crosslinked poly(vinyl alcohol) hydrogel from aqueous solution: kinetics and isotherms studies*", recently submitted to the International Journal of Advanced Engineering (2024).

B. Public artistic and design activities

(i) A review article on the book, 'Japan Probash' written by Manmatha Natha, entitled 'A Bengali among Japanese' was published in The Daily Star newspaper on December 29, 2012 (http://archive.thedailystar.net/newDesign/news-details.php?nid=262972).
(ii) An article on the speech of Bangabandhu Sheikh Mujibur Rahman on 7th March 1971 entitled 'Ekti Alikhito Kobitar Kotha' published in the Daily Ajker Patrika (online version) on March 7, 2022 (https://www.ajkerpatrika.com/150968).

C. Theses

(i) 4th Year B.Sc. (HONS) Project work entitled '*Estimation of Equilibrium time for the Adsorption of Arsenic on Used tea Leaves and Kaolinite".*
(ii) M.S. Dissertation entitled "*Removal of As(iii) from water by used black tea leaves (UBTLs) and iron oxide coated used black tea leaves (IOC-UBTLs)*"
(iii) Doctoral Thesis entitled "*Study on the Growth Process of Barnacle on Soft Substrates*".

12. CONFERENCES ATTENDED:

i. Nafees Ahmed, Takayuki Murosaki, Tomoya Ogawa, Akira Kakugo, Jian Ping Gong, Yasuyuki Nogata, "Growing Process of Barnacles on Soft Substrates with Different Elasticity", The Sessile Organisms Society of Japan Annual Meeting, Shinagawa, Tokyo, Japan, Mar. 2010.

ii. Nafees Ahmed, Takayuki Murosaki, Akira Kakugo, Takayuki Kurokawa, Jian Ping Gong, Yasuyuki Nogata, "Effect of Substrates with Different Elasticity and Hydrophilicity/Hydrophobicity Against Barnacle Growth", 25th Summer University & 2010 Young Researchers Group Meeting sponsored by SPSJ Hokkaido Branch, Toya Sunpalace (Hot Spa), Sapporo, Japan, Aug. 2010.

iii. Nafees Ahmed, Takayuki Murosaki, Akira Kakugo, Takayuki Kurokawa, Jian Ping Gong, YasuyukiNogata, "Effect of Substrates with Different Elasticity and Hydrophilicity/Hydrophobicity Against Barnacle Growth", 59th Symposium on Macromolecules, SPSJ, Sapporo, Japan, Sep. 2010.

iv. Nafees Ahmed, Takayuki Murosaki, Akira Kakugo, Takayuki Kurokawa, Jian Ping Gong, YasuyukiNogata, "Effect of Substrates with Different Elasticity and Hydrophilicity/Hydrophobicity Against Barnacle Growth", Gel Workshop in Naie, Japan, Sep. 2010.

v. Nafees Ahmed, Takayuki Murosaki, Akira Kakugo, Takayuki Kurokawa, Jian Ping Gong, Yasuyuki Nogata, "Effect of Substrates with Different Elasticity and Hydrophilicity/Hydrophobicity Against Barnacle Growth", 6th LSW Symposium, Hokkaido University, Sapporo, Japan, Jan. 2011.

vi. Nafees Ahmed, Takayuki Murosaki, Akira Kakugo, Takayuki Kurokawa, Jian Ping Gong, Yasuyuki Nogata, "Effect of Substrates with Different Elasticity and Hydrophilicity/Hydrophobicity Against Barnacle Growth", 45th SPSJ Hokkaido Branch Winter Meeting, Hokkaido University, Sapporo, Japan, Feb. 2011.

vii. Nafees Ahmed, Takayuki Murosaki, Akira Kakugo, Takayuki Kurokawa, Jian Ping Gong, Yasuyuki Nogata, "Effect of Substrates with Different Elasticity and Hydrophilicity/Hydrophobicity Against Barnacle Growth", international Fusion Bioscience Symposium, Hokkaido University, Sapporo, Japan, Mar. 2011.

viii. Nafees Ahmed, Takayuki Murosaki, Takayuki Kurokawa, Akira Kakugo, Jian Ping Gong, Yasuyuki Nogata, "Prolong investigation of the morphometry and base plate morphology of barnacle on soft substrates with different elasticity and wettability", 26th Summer University & 2011 Young Researchers Group Meeting sponsored by SPSJ Hokkaido Branch, Toya Sunpalace (Hot Spa), Sapporo, Japan, Aug. 2011.

ix. Nafees Ahmed, Takayuki Murosaki, Takayuki Kurokawa, Akira Kakugo, Jian Ping Gong, Yasuyuki Nogata, "Exploration of the concept of antifouling properties of the soft substrates with different elasticity and wettability against barnacle", Bangladesh Chemical Congress 2012 (BCC 2012): 35th Annual Conference of Bangladesh Chemical Society, Dhaka, Bangladesh, Dec, 2012.

x. Nafees Ahmed, Takayuki Murosaki, Takayuki Kurokawa, Akira Kakugo, Jian Ping Gong, Yasuyuki Nogata, "Different Modes of the Antifouling Activity of the Soft Substrates with Variable Elasticity and Wettability against Barnacle", International Conference on Material Chemistry (ICMC-2014), Shahjalal University of Science & Technology, Sylhet, Bangladesh, December 6-8, 2014.

xi. Nafees Ahmed, Md. Ataur Rahman, "Optimization of the Physicochemical Conditions for the Adsorption of 2,4-Dichlorophenol onto Used Black Tea Leaves (UBTLs)", International Conference on Chemical Science & Technology (ICCST-Chem2018), Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh, February 24-25, 2018.

xii. Nafees Ahmed, MdAtaur Rahman, "Adsorptive Removal of 2,4-Dichlorphenol from Aqueous Solution by Using Used Black Tea Leaves", International Conference on Science & Technology for Celebrating the Birth Centenary of Bangabandhu (ICSTB-2021)", BCSIR, Dhaka, Bangladesh, March 11-13, 2021.

xiii. Md. Lutfor Rahman, Abida Sultana, Nafees Ahmed, A J M Tahuran Neger, Shamim Ahmed, "Implementation of coconut coir for adsorptive removal of 2,4-dichlorophenol from aqueous solution", International Conference on Environmental Protection for Sustainable Development (ICEPSD-2022), University of Dhaka, September 2-4, 2022.

xiv. Fazria Tanjum, Nafees Ahmed, Muhammad Zamir Hossain, Joyanta K. Saha, Mohammed Mahmudur Rahman, "Chemically crosslinked poly(vinyl alocohol) hydrogel for the sorption studies of reactive red 120 dye from aqueous solution", An International Conference on Energy Transition: Challenges and Opportunities (IIChE-CHEMCON 2023), Heritage Institute of Technology, Kolkata, India, December 27-30, 2023

13. FIELD OF SPECIALIZATION:

Surface chemistry, polymer chemistry, material science, environmental chemistry and marine biology

14. INTERESTS:

Cricket, Football, Literature, Photography, Reading, Writing, Traveling, Cycling and Cooking

15. IT LITERACY:

Fundamental Knowledge: A good knowledge in operating system (Windows XP, Windows 7), MS Office, Excel, PowerPoint

Scientific Instruments: UV-visible spectrophotometer, IR spectrophotometer, tensilon machine, tentiometer, 3D-LASER microscope, potentiometric titrator.

Graphics Designing Software: Adobe Illustrator, Adobe Photoshop, Chemdraw

Graphical Software: SigmaPlot, Kaleida Graph, Origin

Image Analyzing Software: ImageJ, Image Pro 6 Plus.

16. REFERENCES:

Person 1	Person 2	Person 3
Dr. Jian Ping Gong Professor, Faculty of Advanced LifeScience, Hokkaido University, Sapporo-060-0810, North Ward, N10 W8,Sapporo, Hokkaido, Japan. Phone & Fax: +8111-706-2774. E-mail: gong@mail.sci.hokudai.ac.jp	**Dr. Md. Abu Bin Hasan Susan** Professor, Department of Chemistry University of Dhaka, Dhaka 1000,Bangladesh. Phone: +88-02-966-1920-73 Extension 7162 , Fax: +88-02-861-5583 Mobile: +88-01552-327672 E-mail: susan@du.ac.bd	**Professor Dr. A. K. M. Lutfor Rahman** Chairman, Department ofChemistry, JagannathUniversity, 9-10, Chittaranjan Avenue, Dhaka-1100, Bangladesh. Phone: +88-2-226638838 Fax: +880-2-711-3713 Mobile: +880-1732-108451 E-mail: lrahman1973@gmail.com

Certification:

I, the undersigned, honestly certify that the curriculum vitae correctly describe my qualification and me. I understand that any willful wrong-statement described herein may lead to my disqualification.

Signature & Date: _____
(Dr. Nafees Ahmed), *20th January 2024*