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1.PERSONAL INFORMATION		
Name	:	MOHAMMAD LOKMAN HOSSAIN
Gender	:	Male
Date of Birth	:	2 nd January, 1975
Marital Status	:	Married
Nationality	:	Bangladeshi
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Permanent Address	:	Village: Noyaney Laxmipur, Post office: East Bazapti, Thana: Haimchar Post Code: 3661, District: Chandpur
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2.SHORT BIOGRAPHY
Dr. Mohammad Lokman Hossain was born in Chandpur District in 1975. He completed his Bachelor's and Master's degrees from the University of Chittagong. He also completed MPhil (Part I) at Jahangirnagar University, Savar. After completion his academic education, he began his professional career in teaching profession, serving at several institutions, including Kakirtala Janata College (Chandpur), Feni South-East College (Feni), and University Laboratory School and College, under Institute of Education and Research (IER), University of Dhaka. In 2005, he joined the Bangladesh Civil Service (BCS) as a cadre officer and was posted at the former Jagannath University College. Since the establishment of Jagannath University, he served on deputation and, in 2008, he was appointed as a permanent faculty member of this university. Dr. Hossain pursued his PhD at Peking University, China, under a prestigious scholarship from the China Scholarship Council (CSC). He conducted his doctoral research in organic synthesis, particularly in diazo chemistry, and received the International Student Academy Award in 2013 for his outstanding academic performance. After completing his PhD, he started independent research at Jagannath University in 2015, focusing on pollution chemistry, especially air pollution. His current research interests include organic pollutants and their environmental impacts.

3.EDUCATION			
<u>Degree/Exam</u>	<u>Institution/Board</u>	<u>Results</u>	<u>Year of Passing</u>
PhD (Organic Chemistry)	Peking University	Awarded	2014(2010-2014)
MPhil (Organic Chemistry)	Jahangirnagar University	Pass (Part-I)	2008(2007-2008)
MSc (Organic Chemistry)	University of Chittagong	1 st Class 5 th	1996(1998-2000)
B Sc (Chemistry)	University of Chittagong	1 st Class 3 rd	1995(1993-1997)
HSC(Science)	Comilla Board	1 st Division	1992(1990-1991)
SSC(Science)	Comilla Board	1 st Division	1990(1988-1989)

4.EMPLOYMENT			
<u>Duration</u>	<u>Institution</u>	<u>Position</u>	<u>Experience</u>
2022- Til	Jagannath University	Professor, Grade-II	> 03Years
2018-2022	Jagannath University	Professor, Grade-III	4 Years
2014- 2018	Jagannath University	Associate Professor	4 Years
2011-2014	Jagannath University	Assistant Professor	3 Years 7 Months
2008-2011	Jagannath University	Lecturer	2 Years 4 Months
2005-2008	Jagannath University (Deputation)	Lecturer	3 Years 2 Month
2005-2005	Jagannath University College	Lecturer	3 Months
2003-2005	University Laboratory School and College, IER, DU	Lecturer	2 Years 3 Months
2002-2003	Feni South-East College, Feni	Lecturer	1 Year 2 Months
2001-2002	Kakirtala Janata College, Chandpur	Lecturer	7 Months

5.AWARDS/HONORS
5.1 Scholarships: Selected for multiple prestigious scholarships, including the Indian UGC Scholarship, Russian Government Scholarship, and Chinese Government Scholarship (CSC). Ultimately opted for the Chinese Government Scholarship. 5.2 Peking University International Students Academy Award-2013: Recipient of the International Students Academy Award (2013) from Peking University, China, for outstanding performance as the best international student. 5.3 University Academic Award: Awarded by University of Chittagong for securing 1st Class (3rd position) in B.Sc. Honors (1997), reflecting excellent academic achievement. 5.4 Best Poster Award: Recipient of the best poster award in the 1st International Symposium of Organic and Bio-molecular Chemistry, at Peking University on April 20, 2012, China. Poster Title: “CuI-Catalyzed Cross Coupling of <i>N</i>-Tosylhydrazones with Terminal Alkynes: Synthesis of 1, 3-Disubstituted Allenes.” 5.5 Best Poster Award: Received the best poster award in the 5th PKU-Eli Lilly Symposium of Organic Chemistry on October 13, 2013 at Peking University, China. Poster Title: “CuI-Catalyzed Cross Coupling of <i>N</i>-Tosylhydrazones and Terminal Alkynes: An Efficient Synthesis of Di-substituted Allenes.”

6.TRAINING EXPERIENCE & TECHNICAL SKILLS
6.1 Foundation Training (91st FTC): During my tenure as a Bangladesh Civil Service (BCS) cadre officer, I successfully completed the 91st Foundation Training Course (FTC) at the National Academy for Educational Management (NAEM) during the 2006–2007 sessions. This training enhanced my administrative competence, leadership skills, and understanding of public service management and governance. 6.2 Computer Proficiency: I have completed a Diploma in Computer Applications, gaining practical proficiency in Microsoft Office applications including MS Word, MS Excel, and MS PowerPoint. I am also experienced in operating systems such as Windows XP and Windows 7, with strong skills in data management, document preparation, and academic presentation design. 6.3 Scientific Instrumentation Skills: I have received hands-on training and practical experience in operating advanced analytical instruments, including UV–Visible Spectrophotometer, IR Spectrophotometer, 1H-NMR Spectrometer, and Gas Chromatography–Mass Spectrometry (GC–MS). These skills support my research activities in organic synthesis and environmental/pollution chemistry. 6.5 Skill on Chemical and Spectral Analysis Software: I am proficient in chemical structure drawing and spectral analysis software such as ChemDraw, MestReC, and MestNova, which are essential for molecular modeling, NMR data interpretation, and scientific publication preparation.

6.6 Statistical and Graphical Software: I have practical experience in data analysis and graphical presentation using SigmaPlot, OriginLab, and SPSS. These tools are routinely used in my research for statistical evaluation, trend analysis, and high-quality scientific figure preparation.

7. PROFESSIONAL/SOCIAL MEMBERSHIPS

7.1 Life Member (LM-1162) of Bangladesh Chemical Society (BCS): As a Life Member of the Bangladesh Chemical Society (BCS), I actively engage with the national community of chemists and researchers in Bangladesh. Through this membership, I also participate in scientific seminars, conferences, workshops, and academic discussions to promote research collaboration, professional development, and knowledge exchange in the field of chemistry.

7.2 Life Member of South Asian metrological Association (SAMA): As a Life Member of the South Asian Metrological Association (SAMA), I am associated with a regional professional network of South Asia. Through this membership, I engage in academic and technical discussions, workshops, and this affiliation supports my research interests, particularly in environmental monitoring, analytical chemistry, and data accuracy in pollution studies.

7.3 General Secretary (2025-till date) and Joint Secretary (2015-2022) of (JAK-TOHBIL, JABIP: A Student Welfare Organization which is working to provide stipends and support to underprivileged students at Jagannath University for promoting educational equity and social responsibility.

7.4 EC Member, BCS: Honorable Member, Bangladesh Chemical Society (BCS) (2026-2027).

7.5 EC Member, JnUTA: Honorable Member, Jagannath University Teachers' Association (2026 Term).

7.6 Life Member (LM-526) of Chandpur District Somiti: A district-based social and community development organization. Through this platform, I can contribute to promote social welfare, educational support, and community development for strengthening professional and social networks among members from Chandpur District.

7.7 General Member of Haimchar Upzilla Somiti: Involved in welfare programs under Haimchar Upzilla Somiti, working towards social development and assistance for poor communities.

7.8 Alumni Member: Alumni member of University of Chattogram, and Jahangirnagar University, Savar, Dhaka.

8. ADMINISTRATIVE EXPERIENCE

8.1 Member, Coordination Committee of Professional Masters: Working in academic coordination, curriculum management, and program administration of Professional Master's Program in Chemistry and Chemical Technology in the Department of Chemistry, Jagannath University.

8.2 Treasurer, Chemical Society, JnU (2023–2024): Managed budgeting and financial coordination for extracurricular and academic activities, Department of Chemistry, Jagannath University.

8.3 Teachers' Representative, Chemical Society, JnU (2021–2022): Coordinated many extracurricular activities, Department of Chemistry, Jagannath University.

8.4 Member (2018-Till now): Board of Advanced Studies and Research, Jagannath University, Dhaka 1100.

8.5 Member (2022-2023): Executive Committee, Faculty of Science, Jagannath University, Dhaka 1100.

8.6 Member: Academic Committee, Department of Chemistry, Jagannath University, Dhaka 1100.

8.7 Member (2006-2007): Coordination Committee, Transport, Jagannath University, Dhaka 1100.

9. LEADERSHIP & IMPORTANT ACTIVITIES

9.1 Conference Leadership Experience: I was a **Conference Secretary** in the 2nd International Conference on Recent Advances in Chemistry (ICRAC-2024) held at Jagannath University, Bangladesh. Coordinated academic sessions, managed communications, and facilitated successful execution of an international scientific conference.

9.2 Convener, Publication Sub-Committee: Was a **Convener** in the 1st International Conference on Recent Advances in Chemistry (ICRAC-2020), Oversaw abstract review, editorial coordination, and publication of conference proceedings.

9.3 Convener, Food Sub-Committee: 1st Symposium on Chemistry for Global Solidarity, Department of Chemistry, Jagannath University, Dhaka, Bangladesh.

9.4 Examiner, Question Setter, Moderation Member: Bangladesh Public Service Commission (BPSC) (From 2014 to till date).

9.5 Convener, Picnic Committee, Department of Chemistry, Jagannath University, Dhaka.

9.6 Convener, Freshers' Reception, Department of Chemistry, Jagannath University, Dhaka.

10. EXTRACURRICULAR ACTIVITIES

I actively engaged in sports throughout my academic life. During my school and university years, I regularly participated in football competitions and inter-class tournaments. In addition, I played cricket at the university level, contributing to various departmental and friendly matches. While pursuing my PhD at Peking University, China (2010–2014), I continued my active involvement in sports especially football matches. As a member of my research group, I regularly participated in friendly and inter-research-group football matches organized within the university. These activities not only promoted physical fitness but also strengthened team spirit, collaboration, and cross-cultural interaction among international scholars.

11. EDITORIAL AND REVIEW ACTIVITIES

11.1 Guest Editor: Served as Guest Editor for the journal "*Atmosphere*" overseeing the editorial management of submitted manuscripts within the scope of atmospheric and environmental sciences.

11.2 Peer-Review and Editorial Contributions: Served as a manuscript reviewer for several international peer-reviewed journals e.g. Physical Chemistry Research, Environmental and Atmospheric Chemistry, Journal of Applied Science & Process Engineering, and Biointerface Research in Applied Chemistry.

11.3 Project Reviewer, University Grants Commission (UGC): Evaluated research proposals for scientific merit, methodology, and funding suitability.

12. TEACHING INTEREST & EXPERIENCE

12.1 Teaching Interest/ Fields: My teaching interests include (i) **Environmental Chemistry**, (ii) **Pollution Chemistry**, (iii) **Organic Chemical Process Industries**, and (iv) **Food Chemistry & Additives**. I aim to bridge theoretical knowledge with real-world applications, emphasizing environmental sustainability, industrial chemical processes, and the chemical principles underlying food safety and additive technologies. My focus is on outcome-based education and student-centered learning to develop critical thinking and problem-solving skills in chemistry and related scientific domains.

12.2 Postgraduate (MSc, MPhil) Courses Taught/Teaching: I have taught (i) Advanced Heterocyclic Chemistry, (ii) Advanced Reaction Mechanism and Stereochemistry, (iii) Advanced Spectroscopy in Chemistry (iv) Organic Pollutants

in the Environment and (v) Environmental chemistry focusing on in-depth theoretical concepts and their practical applications. My teaching emphasizes structure–activity relationships, synthetic strategies of heterocyclic compounds, and spectral interpretation for structural elucidation. Through interactive teaching methodologies and problem-based learning, I encourage analytical thinking and scientific inquiry, enabling students to apply advanced chemical principles in research and professional contexts.

12.3 Undergraduate Courses Taught/Teaching: I have taught a range of undergraduate chemistry courses, including (i) Fundamentals of Organic Chemistry, (ii) Chemistry of Heteroatoms, (iii) Functional Derivatives of Hydrocarbons (iv) Organic Chemical Process Industries (v) Stereochemistry of Organic Compounds, (vi) Organic Reaction Mechanism (vii) Organic Polymer Chemistry, (viii) Pharmaceutical Chemistry, and (ix) Bioorganic Chemistry. My teaching focuses on conceptual clarity, structure–function relationships, and practical applications of organic chemistry in pharmaceuticals, materials, and biological systems. I employ interactive and problem-based learning strategies to enhance analytical thinking and scientific understanding, preparing students for advanced study and professional applications in chemistry.

12.4 Laboratory Courses: I have conducted a range of laboratory courses e.g. (i) Systematic Qualitative Identification of Organic Compounds, (ii) Laboratory Synthesis of Organic Compounds, (iii) Separation and Quantitative Estimation of Organic Compounds, and (iv) Organic Chemical Process Industries Lab, emphasizing hands-on experimentation, analytical techniques, and practical skill development. My laboratory teaching focuses on safe laboratory practices, precise experimental methodology, data interpretation, and application of theoretical concepts to experimental chemistry, enabling students to develop research-oriented and industry-relevant competencies.

13. RESEARCH EXPERIENCE

13.1 Current Research Interest/ Fields: My present research interests focus on Environmental Chemistry with particular emphasis on **atmospheric pollution and climate change, plastic pollution, and pollution abatement strategies**. I am also engaged in research on food adulterants and natural preservative chemistry, aiming to address environmental sustainability, public health, and food safety challenges through applied chemical research and innovative mitigation approaches.

13.2 Past Research: My past research focused on Synthetic Organic Chemistry, involving the design, synthesis, and structural characterization of organic molecules. The research emphasized the development of efficient synthetic methodologies, reaction optimization, and mechanistic understanding of organic transformations. My past research was:

(i) PhD Research: Completed four years of advanced research in Synthetic Organic Chemistry during my doctoral studies. **Research Title:** Copper-Catalyzed Cross-Coupling Reaction of Diazo Compounds with Terminal Alkynes: The Applications to Synthesize Allenes, Furans and Phenanthrenes. **Supervisor:** Professor Dr. Jianbo Wang, Peking University, Beijing, China.

(ii) MPhil Research: I have two years of research experience in Synthetic Organic Chemistry. **Research Title:** Synthesis, Modification and Development of Proton Pump Inhibitors. **Supervisor:** Professor Dr. Mohammad Robiul Islam, Jahangirnagar University, Bangladesh.

(iii) MSc Research: Completed One year research experience in the Synthetic Organic Chemistry. **Research Title:** Synthesis and Antimicrobial Activities of Some D-Mannose Derivatives. **Supervisor:** Professor Dr. AKMS Kabir, University of Chittagong, Chittagong, Bangladesh

14. SUPERVISION OF GRADUATE OF RESEARCH

14.1 Current Supervision: Currently supervising seven postgraduate research students (PhD, MPhil, and MSc), guiding their thesis work in areas of environmental and applied chemistry.

Level	Researcher	Session	Title
MPhil	Alim Sheikh	2023-24	Trace Elements in PM _{2.5} in the Ambient Aerosol of Dhaka City: Source Identification, Seasonal Variation and Health Risk Assessment
MPhil	Md. Mostahidul Hasan	2024-25	Trace Metals in the Atmospheric Aerosols of Narayanganj City during Winter: Characterization, Source Apportionment and Health Impacts
MPhil	Md. Solaiman	2025-26	Spatial and Temporal Air Pollution Dynamics in Dhaka Metropolitan and Surrounding Regions: Drivers and Distribution
PhD	Nazir Ahmmmed	2025-26	Chemical Profiling and Human Health Risks of PAHs and Heavy Metals in the Ambient Dust of Dhaka, Narayanganj, and Gazipur Industrial Zones
PhD	Md. Nurul Haque	2025-26	Organic-Inorganic air pollutants in Gazipur: Spatial distribution, Seasonal variation and impact on health.
MSc	Nadia Jahan Mitu	2025-26	Airborne PM _{2.5} -bound PAHs in the brickfields of Munshiganj, Bangladesh: Current Status and Source Apportionment
MSc	Mahmuda Muna	2025-26	Risk Assessment and Investigation of Landfill Leachate as a Source of Emerging Organic Contamination in Matuail, Dhaka

14.2 Completed Supervision: I have supervised a total of Fourteen (14) MSc thesis students. They are as follows:

Level	Researcher	Session	Thesis Title
MSc	Mohammad Shajedur Rahman	2012-13	Impact of Air Pollution on Cultural Heritage
MSc	Mithun Chandra Bepari	2013-14	Status of PM ₁₀ , PM _{2.5} and BC Concentration in Ambient Air at Nawabganj, Manikganj and Comparison with Dhaka
MSc	Tania Nowreen Orchy	2013-14	Investigation on Pomegranate (<i>Punica granatum</i>) skin as natural preservatives
MSc	Abdulla All Mamun,	2014-15	Study of Phytochemical and in-vitro antioxidant activity of extracts of Aloe vera gel
MSc	Billal Hossain	2014-15	In-vitro Antioxidant Activities of Aloe vera Leaf skin and Gel extracts
MSc	Asma Akter,	2015-16	Investigation on Tejpatha/Bay Leaves (<i>Cinnamomum tamala</i>) Extracts as Natural Preservative.
MSc	Md. Riazul Islam	2015-16	Investigation on Drumstick (<i>Moringa oleifera</i>) Leaves Extract as Natural Preservatives
MSc	Eva Chowdhury	2015-16	Studies on Different Solvent Extracts of Guava (<i>Psidium guajava</i>) Leaves as Natural Preservative.
MSc	Tahmina Binte Shiraj,	2018-19	Studies on different solvent extracts of Betel (<i>Piper betle</i>) leaves as Natural Preservative
MSc	Irfan Ali,	2019-20	Synthesis, Characterization and Bioactivities of Isatin - Diamino Schiff base Ligands
MSc	Shah Md. Mostahidul Hasan	2020-21	Some new Isatin based O, N –donor diamine Schiff base ligands and their Mo (VI) complexes: Synthesis, Characterization and Biological Activities.
MSc	SM Nazmul Hosen	2022-23	Characterization of Trace Elements in the Ambient Dust Samples of Dhaka city during Dry Season.
Professional Masters	Ragib Ahmed	Winter 2023	A Report on Noise Pollution in Dhaka City during Peak Hour of Traffic.
Professional	Tanvir Siddiq	Summer,	Urban Soundscapes: Assessing Noise Pollution in Narayanganj

Masters		2024	City.
Professional Masters	Sanjana Disha	Summer, 2024	Antioxidant activities of Drumstick (<i>Moringa oleifera</i>) Leaves, Stem, Root and Pods: A Comparative Analysis.
Professional Masters	Md. Fazlul Haque	Summer, 2024	Trends & seasonal variation of air quality of Dhaka city in the last 3 years.
Professional Masters	Susmita Majumdar	Winter 2025	Temporal Trends and Seasonal Variability of Temperature in Dhaka, Bangladesh (2015–2021)
Professional Masters	Bijoy Chisim	Winter 2025	Air Quality of Gazipur City in The Last Three Years.

15. RESEARCH PROJECTS/FUNDINGS:

Secured 12 competitive research grants from Jagannath University (8 projects) and the Ministry of Science and Technology (4 projects), primarily in Environmental Chemistry and pollution-related research. Currently, two funded research projects are ongoing.

15.1 Current Research Projects/Funding: Currently Two research projects are ongoing.

SE	Title	Duration	Cost	Source of Funding
(i)	Airborne Dust Toxicity in Narayanganj Municipality: Assessment of Elemental Composition and Potential Health Effects	01 Year 2025-26	1.5 Lac	Jagannath University
(ii)	Distribution Pattern, Source Apportionment, and Health Hazards of PAHs and Toxic Metals in Ambient Dust of Gazipur Industrial Area	01 Year 2025-2026	2.5 Lac	Ministry of Science & Technology (MOST)

15.2 Completed Research Projects/Funding: Seven research projects funded by Jagannath University and three research projects funded by the Ministry of Science and Technology (MOST) have been successfully completed.

15.2.1 List of Completed Research Projects funded by Jagannath University: The following seven research projects funded by JnU have already been successfully completed.

SE	Title	Duration	Cost	Source of Funding
(i)	PM _{2.5} –Bound Trace Metals Pollution in Narayanganj District: Characterization, Seasonal Variation and Source Apportionment	2024-25	1.45815 Lac	Jagannath University Research Project
(ii)	Characterization of Trace Elements in the Ambient Aerosol of Dhaka city during Dry Season	2023-2024	1.33 Lac	Jagannath University Research Project
(iii)	Molecular composition and source identification of atmospheric pollutants from the anthropogenic emissions in Dhaka City	2022-2023	1.85 Lac	Jagannath University Research Project
(iv)	Synthesis, Characterization and Bioactivities of N, O-donor containing Diamino Schiff base Ligands Derived from Isatin and Salicylaldehyde	2021-2022	1.715 Lac	Jagannath University Research Project
(v)	Studies of Different Solvent Extracts of Betel (<i>Piper betel</i>) Leaf as Natural Preservative	2020-2021	1.4 Lac	Jagannath University Research Project
(vi)	Studies of Antimicrobial, Antioxidant Activities and the Effectiveness of Guava leaf Extracts as a Natural Preservative	2018-2019	0.9 Lac	Jagannath University Research Project
(vii)	The Use of <i>N</i> -Tosylhydrazone/Diazo compound of Isatin in Metal Free Cross-coupling Reaction	2016-2017	1.0 Lac	Jagannath University Research Project

15.2.2 List of Completed Research Projects funded by MOST: The following three research projects funded by MOST have already been successfully completed.

SE	Title	Duration	Cost	Source of Funding
(i)	Characterization and source apportionment of atmospheric pollutants in Narayanganj City	01 Year 2024-25	2.5 Lac	Ministry of Science & Technology (MOST)
(ii)	The Carbonaceous Pollutants in Dhaka City: Sources, Levels and Health Risks.	01 Year 2022-2023	2.5 Lac	Ministry of Science & Technology (MOST)
(iii)	Characterization of organic pollutants from the anthropogenic emissions in Dhaka ambient aerosols: an outflow region of South Asia.	201 Year 020-2021	3.0 Lac	Ministry of Science & Technology (MOST)

16.SPEAKERS ON SEMINARS/CONFERENCE

16.1 Keynote Speaker. Conference Name: International Conferences on Environmental Protection for Sustainable Development (ICEPSD-2022), **Venue:** CIRDAP, Dhaka, **Title:** Characterization of organic pollutants in Dhaka ambient atmosphere during wintertime, **Date:** 3 September 2022.

16.2 Invited Speaker. Workshop Name: Workshop on the Current Air Quality Research in Dhaka city, **Organizer:** Air Pollution Research Group, Dhaka University, **Venue:** CARs Seminar room, Mukarram Building Area, **Title:** Characterization of nonpolar organic pollutants in PM_{2.5} aerosols of Dhaka city in 2020 wintertime, **Date:** 5 March, 2023.

16.3 Panel Speaker. Workshop name: Application of Remote Sensing and Reanalysis Data, **Organizer:** School of Applied Meteorology, Nanjing University of Information Science and Technology, Jiangsu, China.

16.5 Speaker: Seminar on Trauma Management and Total Fitness, **Organizer:** Chemical Society, Department of Chemistry, Jagannath University.

16.6 Oral Presenter: IUPAC 2025, 50th World Chemistry Congress (50WCC), 14th to 19th July 2025 at Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur, Malaysia. Title: Characterization of nonpolar organic pollutants in the ambient aerosols of Dhaka megacity during wintertime.

17. POSTER PRESENTATION

17.1 Mohammad Lokman Hossain, Fei Ye, Yan Zhang and Jianbo Wang. **The 1st Organic and Bio-molecular chemistry International Symposium, Peking University, April 20, 2012 China**, “CuI-Catalyzed Cross Coupling of *N*-Tosylhydrazones with Terminal Alkynes: Synthesis of 1, 3-Disubstituted Allenes,” [**1st Category Award**].

17.2 Mohammad Lokman Hossain, Fei Ye, Xiaoshen Ma, Yan Zhang and Jianbo Wang. **“The 5th PKU-Eli Lilly Symposium of Organic Chemistry, October 13, 2013, Peking University, China** “CuI-Catalyzed Cross Coupling of *N*-Tosylhydrazones and Terminal Alkynes: An Efficient Synthesis of Di-substituted Allenes,” [**Best Awarded Poster**].

17.3 Zhikun Zhang, Qi Zhou, Fei Ye, Ying Xia, Guojiao Wu, Mohammad Lokman Hossain, Yan Zhang and Jianbo Wang. **The 7th PKU- Eli Lilly Symposium of Organic Chemistry, Peking University, Beijing, China, September 27, 2014.** “Copper-Catalyzed Three-Component Reactions of *N*-Tosylhydrazones, Alkynes, and Azides: Involving Copper Carbene Migratory Insertion Process.”

17.4 Tania Nowreen Orchy, Shamsun Naher, Mohammad Lokman Hossain. **1st Symposium on Chemistry for Global Solidarity, Dept. of Chemistry, Jagannath University, Dhaka, Bangladesh.** “Investigation on Pomegranate Skin

(Punica Granatum) as Natural Food Preservative.”

17.5 Rokaiya Falguni, Md. Taukir Hasan, Md. Farhan Ahmed, Mst. Kaniz Subarna, Afsana Tinne, SM Nazmul Hosen, Mostafa Kamal Shawon, AKML Rahman, Mohammad Lokman Hossain, Md. Mozammel Haque, **2nd International Conference on Recent Advances in Chemistry**, Jagannath University, Dhaka, Bangladesh “Significant contribution of anthropogenic emission on air pollution levels in Dhaka and Rajshahi: Evidence from the covid-19 lockdown period.”

17.6 Kaniz Fatema Fariha, Mosammat J. Fardus Jui, Md. Jobaer Hasan, Mahir Mohammad Habibi, Most. Asha Khatun, Mohammad Lokman Hossain, and Md. Mozammel Haque, **2nd International Conference on Recent Advances in Chemistry**, Jagannath University, Dhaka, Bangladesh “Characterization of wintertime organic aerosols in Dhaka megacity.”

18. PUBLICATIONS

(18.1) ABUL K.M.S. KABIR, MOHAMMED M. MATIN, **MOHAMMAD L. HOSSAIN**, AND M. N. ANWAR. “Antimicrobial Activities of some Mannofuranoside Derivatives.” *The Chittagong University Journal of Science*, **2003**, 27, 119-124.

(18.2) ABUL K.M.S. KABIR, MOHAMMED M. MATIN, **MOHAMMAD L. HOSSAIN**. “Synthesis and Characterization of some Mannofuranoside Derivatives,” *Ceylon journal of Science: physical sciences*, **2006**, 11, 71-80.

(18.3) **Mohammad Lokman Hossain**, Fei Ye, Yan Zhang and Jianbo Wang. “CuI-Catalyzed Cross Coupling of *N*-Tosylhydrazones with Terminal Alkynes: Synthesis of 1, 3-Disubstituted Allenes,” *J. Org. Chem.* **2013**, 78, 1236-1241. ([JOC Most-Read-Article in January 2013](#)).

(18.4) Fei Ye, **Mohammad Lokman Hossain**, Yan Xu, Xiaoshen Ma, Qing Xiao, Yan Zhang and Jianbo Wang. “Synthesis of Allyl Allenes through Three-Component Cross-Coupling Reaction of *N*-Tosylhydrazones, Terminal Alkynes and Allyl Halides,” *Chem. Asian J.* **2013**, 8, 1404-1407.

(18.5) Ying Xia, Zhenxing Liu, Zhen Liu, Rui Ge, Fei Ye, **Mohammad Lokman Hossain**, Yan Zhang, Jianbo Wang. “Formal Carbene Insertion into C-C Bond: Rh(I)-Catalyzed Reaction of Benzocyclobutenols with Diazoesters,” *J. Am. Chem. Soc.* **2014**, 136, 3013-3015. ([JACS Most-Read Article](#))

(18.6) **Mohammad Lokman Hossain**, Fei Ye, Yan Zhang and Jianbo Wang. “Cu(I)-Catalyzed Reaction of Diazo Compounds with Terminal Alkynes: A Direct Synthesis of Trisubstituted Furans,” *Tetrahedron* **2014**, 70, 6957-6962.

(18.7) **Mohammad Lokman Hossain**, Fei Ye, Zhenxing Liu, Ying Xia, Yi Shi, Lei Zhou, Yan Zhang and Jianbo Wang. “Synthesis of Phenanthrenes through Copper-Catalyzed Cross-Coupling of *N*-Tosylhydrazones with Terminal Alkynes,” *J. Org. Chem.* **2014**, 79, 8689-8699.

(18.8) Fei Ye, Chengpeng Wang, Xiaoshen Ma, **Mohammad Lokman Hossain**, Ying Xia, Yan Zhang, and Jianbo Wang, “Synthesis of Terminal Allenes through Copper-Mediated Cross Coupling of Ethyne with *N*-Tosylhydrazones or α -Diazoesters,” *J. Org. Chem.* **2015**, 80, 647–652.

(18.9) Fei Ye, Shuanglin Qu, Lei Zhou, Cheng Peng, Chengpeng Wang, Jiajia Cheng, **Mohammad Lokman Hossain**. “Pd-Catalyzed C-H Functionalization of Acyldiazomethane and Tandem Cross-Coupling Reactions.” *J. Am. Chem. Soc.* **2015**, 137, 4435-4444.

(18.10) Zhikun Zhang, Qi Zhou, Fei Ye, Ying Xia, Guojiao Wu, **Mohammad Lokman Hossain**, Yan Zhang, Jianbo Wang “Copper(I)-Catalyzed Three-Component Coupling of *N*-Tosylhydrazones, Alkynes and Azides: Synthesis of Trisubstituted 1,2,3-Triazoles.” *Adv. Synth. Catal.* **2015**, 357, 2277–2286.

(18.11) Lei Zhou, **Mohammad Lokman Hossain**, Tiebo Xiao, “Synthesis of *N*-Containing Heterocyclic Compounds using Visible –light Photoredox Catalysis.” *Chem. Rec.* **2016**, 16(1), 319-334.

- (18.12) **Mohammad Lokman Hossain**, Kang Wang, Fei Ye, Yan Zhang, Jianbo Wang “Cu(I)-catalyzed cascade reaction of *N*-tosylhydrazones with 3-butyne-1-ol: A new synthesis of tetra-hydrofurans.” *Chinese Journal of Catalysis*, **2017**, 38, 115–122.
- (18.13) B. A. Begum, M. S. Rahman and **Mohammad Lokman Hossain**, “Study of Air Quality of National Science Museum at Agargaon, Dhaka.” *NUCLEAR SCIENCE AND APPLICATIONS*, **2017**, 26(1&2), 5-10.
- (18.14) **Mohammad Lokman Hossain** and Jianbo Wang, “Cu(I)- Catalyzed Cross-coupling of Diazo Compound with Terminal Alkyne: An Efficient Access to Allene.” *Chem. Rec.* **2018**, 18, 1548–1559.
- (18.15) Zhenxing Liu, Jingfeng Huo, Tianren Fu, Haocheng Tan, Fei Ye, **Mohammad Lokman Hossain** and Jianbo Wang, “Palladium (0)-Catalyzed C(sp³)-Si Bond Formation via Formal Carbene Insertion into Si-H Bond.” *Chem. Commun.*, **2018**, 54, 11419-11422.
- (18.16) M. Rahman, B. C. Paul, A. Sharmin, **Mohammad Lokman Hossain**, S. C. Roy, M. Khan, M. J. Hosen, M. M. Hossain. “Analysis of Fatty Acid Composition in Chicken Fast Foods of Dhaka City.” *J. Bangladesh Acad. Sci.*, **2019**, 43(1), 39-45.
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19.BOOK

Dictionary of Chemistry- Dr. Mohammad Lokman Hossain, *Quality Publication*, 38-Banglabazar, Dhaka-1100.

20.PUBLICATION SUMMERY

(i)	Total number of Publications	:	27
(ii)	Number of Books	:	01
(iii)	Total Impact Factor	:	100(approximately)
(iv)	h-index	:	18
(v)	i10-index	:	21
(vi)	Total Citations	:	1263

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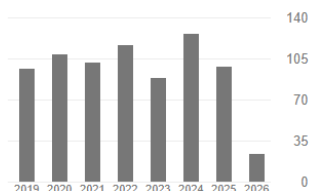
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TITLE	CITED BY	YEAR
Formal carbene insertion into C–C bond: Rh (I)-catalyzed reaction of benzocyclobutenols with diazoesters Y Xia, Z Liu, Z Liu, R Ge, F Ye, M Hossain, Y Zhang, J Wang Journal of the American Chemical Society 136 (8), 3013-3015	196	2014
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CERTIFICATION

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

(Professor Dr. Mohammad Lokman Hossain)