

CURRICULUM VITAE

Name: DR. SHARIF MD. AL-REZA

Position & address

Professor

Dept. of Applied Chemistry and Chemical Engineering

Islamic University, Kushtia-7003, Bangladesh

Ph: +8802477786710-15/Ext. 2279 (Off.)

HP: +8801911777183

Fax: +8802477786705 (Off.)

E-mail: sharif@acce.iu.ac.bd

sharif1435@gmail.com

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

Orcid ID: <https://orcid.org/0000-0002-5738-1452>

Research Gate: <https://www.researchgate.net/profile/Sharif-Al-Reza-2>

Scopus profile link: <https://www.scopus.com/authid/detail.uri?authorId=35261714100>



EDUCATION

2008. 03 – 2012.02

Ph.D. from the Department of Biotechnology, Daegu University, Kyoungsan, Kyoungbook 712-714, Republic of Korea. Degree awarded in February 17, 2012.

2004. 09 – 2006. 10

M.Phil. from the Dept. of Applied Chemistry & Chemical Engineering, Islamic University, Kushtia-7003, Bangladesh. Degree awarded in April 27, 2007.

1999 - 2000

M.Sc. (Thesis) in Applied Chemistry & Chemical Engineering with **first class second position**, Islamic University, Kushtia, Bangladesh. **Major courses studied:** Chemistry and Technology of High Polymers; Metallurgy; Chemical Engineering; Surfactant and Surface Chemistry; Natural Products and Biomolecules; Pharmaceutical Tech. and Biochemistry.

1995 - 1999

B.Sc. (Hons.) in Applied Chemistry & Chemical Engineering with **first class first position**, Islamic University, Kushtia, Bangladesh. **Major courses studied:** Inorganic, Organic, Physical Chemistry; Chemical Eng.; Polymer Science; Chem. Tech.; Metallurgy; Spectroscopy; Material Science; Analytical Chemistry; Pharmaceutical Chemistry; Fuels & Petrochemicals; Math(I-III); Environmental Chemistry; Chemistry & Technology of High Polymers and Textiles; Electrometallurgy & Corrosion; Physics; Computer for Industrial Operation.

EMPLOYMENT

2022. 12. 11 – 2025.12. 10	Chairman Dept. of Applied Chemistry and Chemical Engineering Islamic University, Kushtia-7003, Bangladesh
2016. 10. 14 – Present	Professor Dept. of Applied Chemistry and Chemical Engineering Islamic University, Kushtia-7003, Bangladesh.
2012. 09. 07 – 2016.10. 13	Associate Professor Dept. of Applied Chemistry and Chemical Engineering Islamic University, Kushtia-7003, Bangladesh.
2008. 03 – 2012. 02	Ph.D. Fellow, Dept. of Biotechnology, Daegu University, Kyoungsan 712-714, Republic of Korea.
2007. 04. 27 - 2012. 09. 06	Assistant Professor Dept. of Applied Chemistry & Chemical Engineering Islamic University, Kushtia-7003, Bangladesh.
2004. 09.15 – 2007. 04. 26	Lecturer Dept. of Applied Chemistry & Chemical Engineering Islamic University, Kushtia-7003, Bangladesh.

RESEARCH BACKGROUND

Ph.D. (March 2008 to February 2012): Completed Ph. D. research with entitled “**Isolation and characterization of bioactive secondary metabolites from *Zizyphus jujuba***” under the supervision of **Professor Dr. Sun Chul Kang**, Department of Biotechnology, Daegu University, Kyoungsan, Kyoungbook 712-714, Republic of Korea.

M.Phil. (September 2004 to October 2006): Completed M. Phil research with entitled “**Isolation, characterization and antimicrobial studies of the compound extracted from *Piper chaba* Hunter**” under the supervision of **Professor Dr. M. A. Sattar**, Dept. of Applied Chemistry & Chemical Engineering, Islamic University, Kushtia-7003, Bangladesh.

M.Sc. (November 2001 to July 2003): Completed M. Sc. thesis entitled “**Extraction and estimation of furfural from decorative plants**” for a period of one and half year under the supervision of **Professor Dr. M. A. Sattar**, Dept. of Applied Chemistry & Chemical Engineering, Islamic University, Kushtia-7003, Bangladesh.

PROFESSIONAL POSITION

2016-Present	Member of Academic Council, Islamic University, Kushtia-7003, Bangladesh. Faculty Member, Faculty of Applied Science & Technology Islamic University, Kushtia-7003, Bangladesh.
2005 - Present	Life Member, Bangladesh Chemical Society, 10/11 Eastern Plaza, Dhaka-1205, Bangladesh. (LM-1115)
2006. 02 – 2008. 02	Faculty Member, Faculty of Applied Science & Technology Islamic University, Kushtia-7003, Bangladesh.

ACADEMIC AWARDS

2001	University scholarship on the results of M.Sc. Examination.
1999	University scholarship on the results of B.Sc.(Hons.) Examination.
2008.03 – 2012.02	Brain Korea 21 (BK21) scholarship for Ph.D. research.

LIST OF PUBLICATIONS

62. Shanawaz Ahmed, Md Shoyeb Akand, Md Ashraful Alam, [Sharif Md. Al-Reza](#), Raton Kumar Bishwas, Shirin Akter Jahan (2026). Structural mechanism of copper nanocrystals under low temperature and partial pressure: Insights from powder X-ray diffraction towards malachite green dye degradation. *Chemistry of Inorganic Materials*, 9:1-13. DOI: <https://doi.org/10.1016/j.cinorg.2026.100154>
61. Sumaiya Islam Sadia, Md. Khalid Hossain Shishir, Shanawaz Ahmed, Allah Rakha Aidid, Md. Mynul Islam, Md. Masud Rana, [Sharif Md. Al-Reza](#), Md. Ashraful Alam (2024). Crystallographic biography on nanocrystalline phase of polymorphs titanium dioxide (TiO₂): A perspective static review. *South African Journal of Chemical Engineering*, 50:51-64. DOI: <https://doi.org/10.1016/j.nanoso.2024.101275>
60. Shanawaz Ahmed, Md. Khalid Hossain Shishir, Sumaiya Islam Sadia, [Sharif Md. Al-Reza](#), Md. Mazedul Haque Sachchu, Allah Rakha Aidid, Md. Mynul Islam, Md. Rafayet Al-Mahmud, Md. Masud Rana, Md. Ashraful Alam (2024). Crystallographic phase biographs of copper nanocrystalline material: A statistical perspective review. *Nano-Structures & Nano-Objects*, 39.
DOI: <https://doi.org/10.1016/j.nanoso.2024.101275>.
59. Sumaiya Islam Sadia, Md. Khalid Hossain Shishir, Shanawaz Ahmed, Md. Ashraful Alam, [Sharif Md. Al-Reza](#), Sabrina Afrin, Ahasan Ahmed Pappu, Shirin Akter Jahan (2024). Green synthesis of crystalline silver nanoparticle by bio-mediated plant extract:

- A critical perspective analysis. *Nano-Structures & Nano-Objects*, 39:1-21.
DOI: <https://doi.org/10.1016/j.nanoso.2024.101272>
58. [Sharif Md. Al-Reza](#), Md. Shadiqul Islam, Sumaiya Islam Sadia, Jenine Islam Shama, Sabreena Jahan (2024). Physiochemical study of some perennial fruits and vegetables available in local market of Bangladesh. *International Journal of Science and Research Archive*, 11(01), 396-400. DOI: 10.30574/ijrsra.2024.11.1.0054
 57. Mst. Ayesha Akther Zaman, Kamrun Nahar, Mst. Marjia Khatun, [Sharif Md. Al-Reza](#) (2023). Investigation of morphological, thermal and crystallographic properties of potassium permanganate treated pulque (*Agave atrovirens*) fiber. *International Journal of Chemical, Material and Environmental Research*, 10(4), 1-6.
ISSN: 2410-5945
 56. Sharjana Rahman, Shahin Aziz, Sadia Afrin, Nasim Ahmed, Salma Ahmed, [Sharif M. Al-Reza](#) (2023). Chemical constituents and *in vitro* antibacterial activity of fixed oils from different parts of *Bridelia stipularis* (L.) Blume. *Pakistan Journal of Biological Sciences*, 26(11): 549-556. DOI: 10.3923/pjbs.2023.549.556
 55. Juliya Khanam, Md. Rashib Hasan, Bristy Biswas, Shirin Akter Jahan, Nahid Sharmin, Samina Ahmed, [Sharif M. Al-Reza](#) (2023). Development of ceramic grade red iron oxide pigment from waste iron source. *Heliyon*, 9: 038-042. 04/01/23
DOI:10.1016/j.heliyon.2023.e12854
 54. Md. Shadiqul Islam, Mst. Ayesha Akther Zaman, Kamrun Nahar, [Sharif M. Al-Reza](#) (2023). Effect of retting methods on molecular weight of *Agave atrovirens* fibers. *International Journal of Sciences and Research Archive*, 8(1): 038-042. 26/12/22
DOI: <https://doi.org/10.30574/ijrsra.2023.8.1.0325>
 53. Fatema Moni, Naki Saifullah, Farhana Afroz, Satyajit Roy Rony, Suriya Sharmin, ADA Shahinuzzaman, Muhammad Abdullah Al-Mansur, [Sharif Md. Al-Reza](#), Md. Hossain Sohrab (2022). Antibacterial and Cytotoxic Compounds from Endophyte *Fusarium solani* isolated from *Centella asiatica* (L.), *Journal of Biologically Active Products from Nature*, 12(5):3/11/22. DOI: <https://doi.org/10.1080/22311866.2022.2144947>
 52. [Sharif M. Al-Reza](#), Sinthia Khan, Kamrun Nahar, Jerin Alauddin, Shadiqul Islam (2022). Estimation of phytoconstituents and screening of antibacterial and antioxidant activity of different extracts from *Moringa oleifera*, *International Journal of Biological and Pharmaceutical Sciences Archive*, 4(2): 001-007. 30/9/22
DOI: <https://doi.org/10.53771/ijbpsa.2022.4.2.0085>
 51. [Sharif M. Al-Reza](#), Kamrun Nahar, Mst Ayesha Akther Zaman, Jerin Alauddin (2022). Phytochemicals screening and pharmacological evaluation of *Phyllanthus amarus* leaf extract, *International Journal of Chemistry Studies*, 6(2): 13-28. 20/7/22.

50. Mst. Khodeza Khatun, Kamrun Nahar, Jerin Alauddin, [Sharif M. Al-Reza](#) (2022). Assessment of drinking water quality using physico-chemical parameters around Islamic University, Kushtia, Bangladesh, *International Journal of Science and Research Archive*, 6(2): 001-005. 26/6/22. DOI: <https://doi.org/10.30574/ijsra.2022.6.2.0141>
49. Sharika Farhana, Shahin Aziz, Sharjana Rahman, Sadia Afrin, Mohammad Nazrul Islam Bhuiyan, [Sharif M. Al-Reza](#) (2022). Chemical composition of fixed oil and in vitro antimicrobial activity of *Andrographis paniculata* root, *Journal of King Saud University – Science*, 34: 1-6. 24/2/22. DOI: [10.1016/j.jksus.2022.101921](https://doi.org/10.1016/j.jksus.2022.101921)
48. Md. Aminur Rahman, Md. Rashidul Islam, Sazal Kumar, [Sharif M. Al-Reza](#) (2021). Drinking water quality, exposure and health risk assessment for the school-going children at school time in the southwest coastal of Bangladesh, *Journal of Water, Sanitation and Hygiene for Development*, 11(4): 612-628. DOI: <https://doi.org/10.2166/washdev.2021.016>
47. Kamrun Nahar, Md. Hafezur Rahamana, G.M. Arifuzzaman Khana, Md. Khairul Islam, [Sharif M. Al-Reza](#) (2021). Green synthesis of silver nanoparticles from *Citrus sinensis* peel extract and its antibacterial potential, *Asian Journal of Green Chemistry*, 5:135-150. DOI: [10.22034/ajgc.2021.113966](https://doi.org/10.22034/ajgc.2021.113966)
46. Kamrun Nahar, Deok-Chun Yang, Esrat Jahan Rupa, Mst. Khodeza Khatun, [Sharif M. Al-Reza](#) (2020). Eco-friendly synthesis of silver nanoparticles from *Clerodendrum viscosum* leaf extract and its antibacterial potential, *Nanomedicine Research Journal*, 5(3):276-287. DOI: [10.22034/nmrj.2020.03.008](https://doi.org/10.22034/nmrj.2020.03.008)
45. Kamrun Nahar, Shahin Aziz, Muhammad Shahriar Bashir, Md. Ahsanul Haque, [Sharif M. Al-Reza](#) (2020). Synthesis and characterization of Silver nanoparticles from *Cinnamomum tamala* leaf extract and its antibacterial potential, *International Journal of Nano Dimension*, 11 (1): 88-98. DOI: <https://doi.org/10.57647/>
44. Tahmina Khondkar Mitu, Sharika Farhana, Shirin Akhter Banu, Shahin Aziz, [Sharif M. Al-Reza](#) (2019). Phytochemical screening and chemical composition of fixed oil from seed of *Abroma augusta*, *International Research Journal of Biological Sciences*, 8(11), 29-32. ISSN 2278-3202
43. Shahin Aziz, Tahmina Khondkar Mitu, [Sharif M. Al-Reza](#) (2018). Determination of Proximate Composition, Phytochemical Screening and Mineral Analysis of *Santalum Rubrum* seed, *World Journal of Pharmaceutical and Medical Research*, 4(2), 147-152. ISSN 2455-3301

42. Zakia Sultana Shanta, Most. Ruma Khatun, Shahin Aziz, Tanzima Parvin, [Sharif M. Al-Reza](#) (2018). Proximate Analysis, Phytochemical Content and Mineral Composition of *Cassia Obtusifolia* Seed. **World Journal of Pharmacy and Pharmaceutical Sciences**, 7(2), 1226-1240. ISSN 2278-4357
41. Zakia Sultana Shanta, Esrat Jahan Rupa, Shahin Aziz, Most. Hosney Ara Begum, [Sharif M. Al-Reza](#), (2018). Studies on *Terminalia Bellirica* Seed for Proximal Composition, Mineral Analysis and Phytochemical Screening. **World Journal of Pharmaceutical and Life Sciences**, 4(2), 120-126. ISSN 2454-2229
40. Md. Aminur Rahman, Kamrun Nahar, [Sharif Md. Al-Reza](#) (2016). Chemical Analysis of Drinking Water Samples of Some Primary Schools from Magura District, Bangladesh. **Journal of Water Resources and Ocean Science**, 5(5), 73-77.
DOI:10.11648/j.wros.20160505.12
39. Md. Sabbir Hasan, Rownok Jahan, Md. Ashraful Alam, Mst. Khodeza Khatun, [Sharif M. Al-Reza](#) (2016). Study on Physicochemical Properties of Edible Oils Available in Bangladeshi Local Market, **Archives of Current Research International**, Vol. 6(1), 1-6.
DOI:10.9734/ACRI/2016/29464
38. Ashrafy Habib, Szal Kumar, Md. Sajal Sorowar, Joyanto Karmoker, Mst. Khodeza Khatun, [Sharif M. Al-Reza](#) (2016). Study on the Physicochemical Properties of Some Commercial Soaps Available in Bangladeshi Market, **International Journal of Advanced Research in Chemical Science**, Vol. 3(6), 9-12.
DOI:10.20431/2349-0403.0306002
37. Mst. Khodeza Khatun, [Sharif M. Al-Reza](#), M. A. Sattar (2016). Synthesis of Bioactive Barbituric Acid Derivatives using Microwave Irradiation Method. **International Journal of Advanced Research in Chemical Science**, Vol. 3(6), 21-26.
DOI: <http://dx.doi.org/10.20431/2349-0403.0306004>
36. [Sharif M. Al-Reza](#), M. Rokonzaman, Monira Afroz, Md. Iqbal Hussain, M. A. Rashid, Atiqur Rahman (2016). Chemical Composition and Antioxidant Activity of Essential Oil and Organic Extracts of *Premna integrifolia* Linn. **Brazilian Archives of Biology and Technology**, Vol. 59, pp. 1-8, 2016.04.25.
DOI:10.1590/1678-4324-2016160223
35. Abdus Salam Bhuiyan, Shahjahan Ali, Nur Mohammad Talukder, M. A. Sattar, Sk. Al Zaheri Mahmud, [Sharif M. Al-Reza](#) (2016). Physico-Chemical Properties and Effectiveness of the most Common Insecticides used in Bangladesh to Control Brinjal Soot and Fruit Borer (BSFB). **Jordan Journal of Agricultural Sciences**, Vol. 12 (1), pp. 289-298, 2015.05.31. <https://search.emarefa.net/detail/BIM-804332>
34. M. A. Sattar, Mst. Khodeza Khatun, Rafiquel Islam, Md. Hossain Sohrab, [Sharif M. Al-Reza](#) (2015). Synthesis of barbituric acid derivatives using microwave irradiation

method and *in vitro* evaluation of antimicrobial and cytotoxic activity. *Journal of Applied Pharmaceutical Science*, Vol. 5 (11), pp. 38-42.
DOI:10.7324/JAPS.2015.501106

33. M. A. Rashid, Iqbal Hussain, Mohsina Hamuda, [Sharif M. Al-Reza](#) (2015). Study of Microwave Heating on Nutrient Content of Bangladeshi Fish *Mastacembelus Armatus*, *International Journal of Nutrition and Food Sciences*, Vol. 4(5), pp. 574-577.
DOI: 10.11648/j.ijnfs.20150405.19
32. M. A. Rashid, M. T. Alam, N. C. Dafader, M. E. Haque, [Sharif M. Al-Reza](#), M. A. Sattar (2015). Study on the effect of chitosan in poly (vinyl pyrrolidone) Hydrogel prepared by the application of gamma radiation. *Journal of Plastic and Polymer Technology*, Vol. 1(1), pp 65-70.
31. Atiqur Rahman, [Sharif M. Al-Reza](#), Shah Alam Siddiqui, Taehyun Chang, Sun Chul Kang (2014). Antifungal potential of essential oil and ethanol extracts of *Lonicera japonica* thumb against dermatophytes. *Experimental & Clinical Sciences International*, (2014)13(4):427-436. (SCI, IF=1.923) **PMID: 26417269; PMCID: PMC4464489.**
30. Atqur Rehman, Rafiquel Islam, [Sharif M. Al-Reza](#), Sun Chul Kang (2014). *In Vitro* Control of Plant Pathogenic *Xanthomonas* spp using *Poncirus trifoliata* rafin. **EXCLI Journal** (2014)13(9):1104-1110. (SCI, IF=1.923)
PMID: 26417325 PMCID: PMC4464478
29. M. Safiur Rahman, Narottam Saha, A. Hossain Molla, [Sharif M. Al-Reza](#) (2014). Assessment of anthropogenic influence on heavy metals contamination in the aquatic ecosystem components: water, sediment, and fish. *Soil and Sediment Contamination*, Vol. 23, pp. 353–373. **DOI: <https://doi.org/10.1080/15320383.2014.829025>**
28. Mst. Khodeza Khatun, Mst. Panna Khatun, [Sharif M. Al-Reza](#), Atiqur Rahman, M. A. Sattar (2013). Comparative study on the synthesis of 1-(4-hydroxyphenyl)-3-phenyl-2-propen-1-one by using conventional and microwave irradiation method. *Journal of Applied Science and Technology*, Vol. 03(01), pp.89-91.
27. M Mizanur Rahman, Taslima Sultana, M Yousof Ali, M Masidur Rahman, [Sharif M. Al-Reza](#), Atiqur Rahman, (2013). Chemical composition and antibacterial activity of the essential oil and various extracts from *Cassia sophora* L against *Bacillus* spp from soil. *Arabian Journal of Chemistry*, Vol. 10, pp.2132-2137; 2013.07.21 (IF=2.266), **(SCIE)**.
DOI: <http://dx.doi.org/10.1016/j.arabjc.2013.07.045>
26. Atiqur Rahman, [Sharif M. Al-Reza](#), Sun Chul Kang (2013). Antifungal potential of essential oil and ethanol extracts of *Lonicera japonica* thunb. against dermatophytes.

EXCLI Journal, 2013.07.16 (IF=1.923), (SCIE).
PMCID: PMC4464489 PMID: 26417269

25. Atiqur Rahman, [Sharif M. Al-Reza](#), Sun Chul Kang (2013). Antilisterial effect of essential oil and extracts of *Poncirus trifoliata* Rafin. seeds. *Journal of Food Biochemistry*, 2013.01.13 (IF=0.756), (SCI). DOI: <https://doi.org/10.1111/jfbc.12024>
24. Atiqur Rahman, Monira Afroz, Kazi Didarul Islam, M. Rokunuzzaman, Rafiqueel Islam, [Sharif M. Al-Reza](#), M. A. Sattar (2012). Chemical composition and antibacterial properties of essential oil and organic extracts of *Curcuma zedoaria* leaf. *Journal of Essential Oil Bearing Plants*, 2012.05.08 (IF=0.702), (SCIE).
<https://www.researchgate.net/publication/271509662>
23. [Sharif M. Al-Reza](#), Atiqur Rahman, Tanzima Parvin, M. Mizanur Rahman, M. Safiur Rahman (2011). Chemical composition and antibacterial activities of essential oil and organic extracts of *Curcuma aromatica* Salisb. *Journal of Food Safety*, Vol. 31 (4), pp. 433–438, 2011.03.23 (IF=0.702), (SCI). doi:10.1111/j.1745-4565.2011.00318.x
22. Atiqur Rahman, [Sharif M. Al-Reza](#), M. A. Sattar, Sun Chul Kang (2011). Potential roles of essential oil and extracts of *Piper chaba* Hunter to inhibit *Listeria monocytogenes*. *Records of Natural Products*, Vol. 5(3), pp. 228–237, 2011.01.23 (IF=0.792), (SCIE).
<https://www.researchgate.net/publication/228486439>
21. [Sharif M. Al-Reza](#), Cher Won Hwang, Sun Chul Kang (2010). Efficacy of chemical preservatives to control *Perilla* rust. *Korean Journal of Environmental Agriculture*, Vol. 29(4), pp. 417–420, 2010.12.23, (ISSN 1225-3537). DOI: 10.1002/jsfa.3527
20. Atiqur Rahman, [Sharif M. Al-Reza](#), Sun Chul Kang (2010). Antifungal activity of essential oil and extracts of *Piper chaba* Hunter against phytopathogenic fungi. *Journal of the American Oil Chemists' Society*, Vol. 88(4), pp. 573–579, 2010.10.07 (IF=1.803), (SCI). DOI: 10.1007/s11746-010-1698-3
19. [Sharif M. Al-Reza](#), Atiqur Rahman, Young-Su Cho, Sun Chul Kang (2010). Chemical composition and antioxidant activity of essential oil and organic extracts of *Cestrum nocturnum* L. *Journal of Essential Oil Bearing Plants*, Vol. 13(5), pp. 615–624, 2010.07.06 (IF=0.310), (SCIE). DOI: 10.1080/0972060X.2010.10643871
18. [Sharif M. Al-Reza](#), Atiqur Rahman, M. A. Sattar, M. Oliur Rahman, Hasan M. Fida (2010). Essential oil composition and antioxidant activities of *Curcuma aromatica* Salisb. *Food and Chemical Toxicology*, Vol. 48(6), pp. 1757–1760, 2010.04.06 (IF=2.321), (SCI). doi:10.1016/j.fct.2010.04.008.
17. Jung In Yoon, [Sharif M. Al-Reza](#), Sun Chul Kang (2010) Hair growth promoting effect

- of *Zizyphus jujuba* essential oil. ***Food and Chemical Toxicology***, Vol. 48(5), pp. 1350–1354, 2010. 02. 26 (IF=2.321), (SCI) doi:10.1016/j.fct.2010.02.036.
16. [Sharif M. Al-Reza](#), Jung In Yoon, Hyo Jung Kim, Jong-Sang Kim, Sun Chul Kang (2010). Anti-inflammatory activity of seed essential oil from *Zizyphus jujuba*. ***Food and Chemical Toxicology***, Vol. 48(2), pp. 639–643, 2009.11.23 (IF=2.321), (SCI). doi:10.1016/j.fct.2009.11.045.
 15. Yunus Ahmed, Md. Hossain Sohrab, [Sharif M. Al-Reza](#), Faqir Shahidulla Tareq, Choudhury M. Hasan, M. A. Sattar (2010). Antimicrobial and cytotoxic constituents from leaves of *Sapium baccatum*. ***Food and Chemical Toxicology***, Vol. 48(2), pp. 549–552, 2009.11.09 (IF=2.321), (SCI). doi:10.1016/j.fct.2009.11.030.
 14. [Sharif M. Al-Reza](#), Atiqur Rahman, Yunus Ahmed, Sun Chul Kang (2010). Inhibition of plant pathogens *in vitro* and *in vivo* with essential oil and organic extracts of *Cestrum nocturnum* L. ***Pesticide Biochemistry and Physiology***, Vol. 96(2), pp. 86-92, 2009.09.25 (IF= 1.276), (SCI). doi:10.1016/j.pestbp.2009.09.005
 13. [Sharif M. Al-Reza](#), Atiqur Rahman, Jonghwi Lee, Sun Chul Kang (2010). Potential roles of essential oil and organic extracts of *Zizyphus jujuba* in inhibiting food-borne pathogens. ***Food Chemistry***, Vol. 119 (3), pp. 981-986, 2009.07.31 (IF=2.696), (SCI). doi:10.1016/j.foodchem.2009.07.059.
 12. Suvagata Bagchi, A.K. Azad, M. Alomgir Z. Chowdhury, M. Amin Uddin, [Sharif M. Al-Reza](#), Atiqur Rahman (2009). Quantitative Analysis of Pesticide Residues in Some Pond Water Samples of Bangladesh. ***Asian Journal of Water, Environment and Pollution***, Vol. 6(4), pp. 27-30.
 11. [Sharif M. Al-Reza](#), Vivek K. Bajpai, Sun Chul Kang (2009). Antioxidant and antilisterial effect of seed essential oil and organic extracts from *Zizyphus jujuba*. ***Food and Chemical Toxicology***, Vol. 47(9), pp. 2374–2380, 2009.06.22 (IF=2.321), (SCI). doi:10.1016/j.fct.2009.06.033
 10. Vivek K. Bajpai, [Sharif M. Al-Reza](#), Ung Kyu Choi, Jong Hwi Lee, Sun Chul Kang (2009). Chemical composition, antibacterial and antioxidant activities of leaf essential oil and extracts of *Metasequoia glyptostroboides* Miki ex Hu. ***Food and Chemical Toxicology***, Vol. 47(8), pp.1876-1883, 2009.04.29 (IF=2.321), (SCI). doi:10.1016/j.fct.2009.04.043.
 9. Rezuhanul Islam, Rejaul Islam Khan, [Sharif M. Al-Reza](#), Yong Tae Jeong, Chi Hyun Song and M Khalequzzaman (2009). Chemical composition and insecticidal properties of *Cinnamomum aromaticum* (Nees) essential oil against the stored product beetle *Callosobruchus maculatus* (F.). ***Journal of the Science of Food and Agriculture***, Vol. 89(7), pp. 1241-1246, 2009.03.02 (IF=1.333), (SCI). DOI: 10.1002/jsfa.3582

8. [Sharif M. Al-Reza](#), Atiqur Rahman, Sun Chul Kang (2009). Chemical composition and inhibitory effect of essential oil and organic extracts of *Cestrum nocturnum* L. on food-borne pathogens. ***International Journal of Food Science and Technology***, Vol. 44(6), pp. 1176 – 1182, 2009.01.28 (IF=1.065), (SCI). doi:10.1111/j.1365-2621.2009.01939.x
7. Atiqur Rahman, [Sharif M. Al-Reza](#), Jung In Yoon, Sun Chul Kang (2008). *In vitro* inhibition of foodborne pathogens by volatile oil and organic extracts of *Poncirus trifoliata* Rafin. seeds. ***Journal of the Science of Food and Agriculture***, Vol. 89(7), pp. 876-881, 2008.12.26 (IF=1.333), (SCI). DOI 10.1002/jsfa.3527
6. M. A. Sattar, [S. M. Al-Reza](#) and Mst. Khodeza Khatun (2007). Acetylation of 1-Naphthylamin by microwave irradiation method. ***Journal of the Bangladesh Chemical Society***, Vol. 19, pp.110-112.
5. M. A. Sattar, A. K. Chakraborty, [S. M. Al-Reza](#) and Md.Shaharul Islam (2007). Extraction and Estimation of furfural from Decorative Plants Grown in Bangladesh. ***Bangladesh Journal of Scientific and Industrial Research***, Vol. 42(4), pp.495-498.
4. M. A. Sattar, A. K. Chakraborty, [S. M. Al-Reza](#) and Mst. Alleema Khatun (2005). Extraction and estimation of furfural from decorative plants grown in Bangladesh. ***Journal of Applied Science and Technology***, Vol.04(01), pp.63-65.
3. M. A. Sattar, Dipak Kumar Paul, A. K. Chakraborty, Md. Rezuanul Islam, Sk. Al Zaheri Mahmud and [S. M. Al-Reza](#) (2005). Characterization of lipids from Pangas fish (*Pangasius pangasius*) and study of its antimicrobial activity. ***Journal of Applied Science and Technology***, Vol.04(01), pp.67-70.
2. M. A. Sattar, A. K. Chakraborty, [S. M. Al-Reza](#), Mst. Khodeza Khatun and S.A. Iqbal (2003). Acetylation of aniline through microwave irradiation method. ***Journal of Applied Science and Technology***, Vol.03(02), pp.89-91.
1. M. A. Sattar, A. K. Chakraborty, [S. M. Al-Reza](#) and Sk. Al Zaheri Mahmud (2003). Extraction and estimation of furfural from decorative plants grown in Bangladesh. ***Journal of Applied Science and Technology***, Vol.03(01), pp.89-91.

SEMINAR/CONFERENCE AND WORKSHOP ATTENDED

Xiao Nan Yang, [Sharif M. Al-Reza](#), Sun Chul Kang "Chemical compositions, antimicrobial and antioxidant activities of essential oil from Korean orange peel" 2011 International Symposium and Annual Meeting of the KSABC, ICC, Jeju, Korea, pp. 200, 2011. 10. 20 (Poster Presentation)

Anil K. Yadav, [Sharif M. Al-Reza](#), Bon Soon Ku, Moon Soo Cho, Seak Won Choi, Ji Ae Seo, Sun Chul Kang " Effect of *Rhizopus oligosporus* CS-107 strain against Tsugaru apple anthracnose in field trial " 2011 International Symposium and Annual Meeting of the KSABC, ICC, Jeju, Korea, pp. 216, 2011. 10. 20 (Poster Presentation)

Anil K. Chauhan, [Sharif M. Al-Reza](#), Bon Soon Ku, Moon Soo Cho, Seak Won Choi, Ji Ae Seo, Sun Chul Kang "Storage effect of Tsugaru apple using *Rhizopus oligosporus* CS-107 strain" 2011 International Symposium and Annual Meeting of the KSABC, ICC, Jeju, Korea, pp. 217, 2011. 10. 20 (Poster Presentation)

Xiao Nan Yang, [Sharif M. Al-Reza](#), Souren Paul, Sun Chul Kang "Efficacy of Chemical Preservatives to control *Perilla* rust" Asian Congress on Biotechnology, Shanghai, China, pp.212, 2011. 5. 11-15 (Poster Presentation)

Sun Chul Kang, [Sharif M. Al-Reza](#), Souren Paul, "Chemical composition and antioxidant activity of essential oil and organic extracts of *Zizyphus jujuba* leaves" 2011 International Symposium and Annual Meeting of the KSABC, Kyunghee University Global Campus, Suwan, Korea, pp.83, 2011. 4. 15 (Poster Presentation)

Souren Paul, [Sharif M. Al-Reza](#), Sun Chul Kang "An *in vitro* evaluation of spermicidal activity of *Trachyspermum ammi* (L.) fruits" 2011 International Symposium and Annual Meeting of the KSABC, Kyunghee University Global Campus, Suwan, Korea, pp.84, 2011. 4. 15 (Poster Presentation)

[Sharif M. Al-Reza](#), Souren Paul, Hwa Jin Suh, Sun Chul Kang " Characterization and antimicrobial evaluation of *Zizyphus jujuba* essential oil nanoemulsion against food-borne and spoilage bacteria" UW-RF 30th Food Microbiology Symposium, University of Wisconsin-River Falls, U.S.A., pp.234, 2010. 10. 17 ~ 19 (Poster Presentation)

[Sharif M. Al-Reza](#), Vivek K. Bajpai, Sun Chul Kang "Axenic culture of biotrophically growing *Coleosporium plectranthi* causing *Perilla* rust" UW-RF 30th Food Microbiology Symposium, University of Wisconsin-River Falls, U.S.A., pp.235, 2010. 10. 17 ~ 19 (Poster Presentation)

Sun Chul Kang, [Sharif M. Al-Reza](#), Vivek K. Bajpai, Kwang Hyun Baek "*In vitro* inhibition of *Perilla* rust fungus *Coleosporium plectranthi* by natural antimicrobial agents" 2010 International Meeting of the Korean Microbiological Society, FKMS, Seoul, Korea, pp.279, 2010. 10. 14 ~ 15 (Poster Presentation)

Sun Chul Kang, [Sharif M. Al-Reza](#), Vivek K. Bajpai, Kwang Hyun Baek, Soon Gu Lee "*In vitro* culture of the biotrophically growing *Perilla* rust *Coleosporium plectranthi*" 2010 International Meeting of the Korean Microbiological Society, FKMS, Seoul, Korea, pp.280, 2010. 10. 14 ~ 15 (Poster Presentation)

[Sharif M. Al-Reza](#), Jung In Yoon, Jun Wan An, Sun Chul Kang "Synergistic effect of nisin and *Zizyphus jujuba* seed essential oil against *Listeria monocytogenes* in milk" The Commemorative International Symposium for the 50th Anniversary KSABC, Hotel Hyundai, Gyeongju, Korea, pp.96, 2010. 8. 25 ~ 27(Poster Presentation)

[Sharif M. Al-Reza](#), Souren Paul, Hwa-Jin Suh, Sun Chul Kang "Efficacy of *Zizyphus jujuba* essential oil in the inactivation of *Escherichia coli* O157:H7 on iceberg lettuce" 2010 International

Symposium and Annual Meeting of the KSABC, KIST, Kangnung, Gangwon do, Korea, pp.106, 2010. 2. 19 (Poster Presentation)

Sharif M. Al-Reza, Souren Paul, Jung In Yoon, Sun Chul Kang "Effect of *Zizyphus jujuba* essential oil to inhibit microbial growth on fresh-cut iceberg lettuce" 2010 International Symposium and Annual Meeting of the KSABC, KIST, Kangnung, Gangwon do, Korea, pp.107, 2010. 2. 19 (Poster Presentation)

S. Kang, A. Rahman, S. M. Al-Reza, H. J. Suh "Anti-Listerial effect of essential oil and extracts of *Poncirus trifoliata* Rafin. Leaf" 109th General Meeting Pennsylvania Convention Center, American Society for Microbiology, USA, Session No.043, 2009. 05.17 ~ 21 (Poster Presentation)

Jung In Yoon, Atiqur Rahman, Sharif M. Al-Reza, Hwa Jin Suh, Sun Chul Kang, "Chemical composition analysis and antifungal potential of the leaf essential oil and extracts of *Metasequoia Glyptostroboides* Miki ex Hu" Proceedings of international symposium on bioprocess and biosystems engineering 2009, Shanghai Jiao Tong University, China, pp. 209, 2009. 08. 03 ~ 06 (Poster Presentation)

Jung In Yoon, Atiqur Rahman, Sharif M. Al-Reza, Hwa Jin Suh, Sun Chul Kang, "Potential role of a bioactive constituent, Limonin, derived from *Poncirus Trifoliata* Rafin. Seeds to control *in vitro* growth of *Listeria* spp." Proceedings of international symposium on bioprocess and biosystems engineering 2009, Shanghai Jiao Tong University, China, pp. 207, 2009. 08. 03 ~ 06 (Poster Presentation)

Vivek K. Bajpai, Hwa Jin Suh, Jung In Yoon, Sharif Md. Al-Reza and Sun Chul Kang, "An abietane type diterpenoid, taxaquinone from *Metasequoia glyptostroboides* Miki ex Hu and its role against foodborne pathogens" UW-RF 29th Food Microbiology Symposium, University of Wisconsin-River Falls, U.S.A, pp. 32, 2009. 10. 18~21 (Poster Presentation)

Sun Chul Kang, Atiqur Rahman, Sharif M. Al-Reza and Vivek K. Bajpai, "Application of Plant-Derived Antimicrobials for Food Safety" Asia Pacific Symposium on Food Safety 2009, Seoul Kyo Yuk MunHwa Hoekwan, Seoul, Korea, pp. 114~116, 2009. 11.11 ~ 13 (Oral Presentation)

Jung In Yoon, Sharif M. Al-Reza, Sun Chul Kang, "Antioxidant activities of essential oil and organic extracts of *Zizyphus jujuba*" 2009 International Symposium and Annual Meeting of the KSABC, Jeju Grand Hotel, Jeju, Korea, pp. 162, 2009. 10. 22 ~ 24 (Poster Presentation)

Jung In Yoon, Atiqur Rahman, Sharif M. Al-Reza, Haw Jin Suh, Sun Chul Kang, "Potential Role of a Bioactive Constituent, Limonin, Derived from *Poncirus Trifoliata* Rafin. Seeds to Control *in vitro* Growth of *Listeria* spp." Proceedings of International Symposium on Bioprocess and Biosystems Engineering 2009, Shanghai, China, pp. 207, 2009. 08. 3 ~ 6 (Poster Presentation)

Atiqur Rahman, Sharif M. Al-Reza, Charitra Kumar Mishra, Jung In Yoon, Sun Chul Kang, "In vitro Anti-listerial Activity of the Essential Oil and Various Organic Extracts of *Piper chaba* Hunter" 2008 International Symposium and Annual Meeting of the KSABC, DAEGU EXCO, Korea, pp. 128, 2008. 10. 23 ~ 25 (Poster Presentation)

Sharif M. Al-Reza, Atiqur Rahman, Nguyen Thi Dung, Jung In Yoon, Sun Chul Kang, "In vitro Inhibition of Phytopathogenic Fungi by Essential Oil and Organic Extracts of *Cestrum nocturnum*

L." 2008 International Symposium and Annual Meeting of the KSABC, DAEGU EXCO, Korea, pp. 141, 2008. 10. 23 ~ 25 (Poster Presentation)

Atiqur Rahman, [Sharif M. Al-Reza](#), Jung In Yoon, Moon Jae Cho, Sun Chul Kang, "In vitro Antibacterial Activity of the Essential Oil and Various Organic Extracts of Piper chaba Hunter against Xanthomonas sp." 2008 International Symposium and Annual Meeting of the KSABC, DAEGU EXCO, Korea, pp. 141, 2008. 10. 23 ~ 25 (Poster Presentation)

Yoon Jung In, Atiqur Rahman, Vivek K. Bajpai, Nguyen Thi Dung, Charitra K. Mishra, [Sharif M. Al-Reza](#), Sun Chul Kang "Chemical composition and antifungal activity of volatile seed oil and organic seed extracts of Poncirus trifoliata" 13th International Biotechnology Symposium and Exhibition, Dalian, China, pp. S98, 2008. 10. 12 ~ 17 (Poster Presentation)

Sun Chul Kang, [Sharif M. Al-Reza](#), Nguyen Thi Dung and Atiqur Rahman, "Antioxidant Activities of Essential Oil and Various Extracts of Cestrum nocturnum L." 2008 KSBB Fall Meeting and International Symposium, JEJU ICC, JEJU, Korea, pp. 189, 2008.10.06 ~ 07 (Poster Presentation)

[Sharif M. Al-Reza](#), Atiqur Rahman, Sun Chul Kang "In vitro antibacterial potential of essential oil and crude extracts of Cestrum nocturnum L." 2008 International Symposium and Annual Meeting of the KSABC, Konkuk University, Korea, pp. 110, 2008. 05. 16 (Poster Presentation)

Atiqur Rahman, [Sharif M. Al-Reza](#) and Sun Chul Kang "Chemical composition and Antifungal activity of essential oil and extracts of Piper chaba Hunter" 2008 Spring KSBB Meeting and International Symposium, Chonbuk National University, Korea, pp. 112, 2008. 04. 18 (Poster Presentation)

SUPERVISION (Ph.D.)

Name of Candidates	Title of Thesis	Academic Session	Status
Prof. Dr. Kamrun Nahar ACCE, IU	Eco-friendly synthesis of silver nanoparticles using plant extracts and evaluation of their anti-microbial activities	2016-2017	Degree Awarded
Dr. Sharika Farhana	Green Chemistry Approach for Synthesis, Identification and Application of Silver Nanoparticles from <i>Andrographis paniculata</i>	2016-2017	Degree Awarded
Dr. Shirin Akhter Banu	Plant-Mediated Synthesis of Iron Nanoparticles and Evaluation of Antibacterial and Antioxidant activities	2016-2017	Degree Awarded
Dr. Jerin Alauddin Associate Professor ACCE, IU	Thermodynamic studies of molecular interactions in binary and ternary liquid systems	2016-2017	Degree Awarded
Dr. Tahmina Khondkar Mitu	Biosynthesis, Characterization and Bioactivity of Silver Nanoparticles Using Different Parts of <i>Abroma augusta</i>	2016-2017	Degree Awarded

SUPERVISION (M.Sc. Thesis)

Name of Candidates	Title of Thesis	Academic Session	Status
--------------------	-----------------	------------------	--------

Shanawaz Ahmed	Photocatalytic and Bioactive Properties of Biosynthesized Copper Nanoparticles using <i>Psidium guajava</i> Leaf and Potato Peel Extracts	2021-2022	Degree Awarded
Sumaiya Islam Sadia	Green Synthesis of Silver Nanoparticles using <i>Callistemon Viminalis</i> Extract: Exploring Photocatalytic and Antimicrobial Properties	2021-2022	Degree Awarded
Mst. Rita Khatun	<i>Phyllanthus emblica</i> and <i>Diospyros kaki</i> leaf extract mediated eco-friendly synthesis and physical characterization of silver nanoparticles	2018-2019	Degree Awarded
Farah Hossain	A study on cardio-protective role among different Bangladeshi varieties <i>momordica charantia</i>	2018-2019	Degree Awarded
Motmayenna Khatun	Phytochemical screening and antioxidant activity of different extracts from root, stem and leaf of <i>Coccinia grandis</i>	2017-2018	Degree Awarded
Mst. Shahina Akhter	Optimization of different parameters for synthesis of silver nanoparticles from leaf extract of <i>Punica granatum</i>	2017-2018	Degree Awarded
Tanushree Pal	Phytochemical screening and evaluation of antibacterial and antioxidant activity of different extracts from <i>Clerodendrum viscosum</i>	2015-2016	Degree Awarded
Momtahina Ria	Proximate, Minerals, Phytochemical Screening with Quantification & Anti-bacterial evaluation of different Plant parts of <i>Scoparia dulcis</i> L.	2015-2016	Degree Awarded
Naki Saifullah	Study on chemical composition and bioactivity of endophytic fungus of <i>Centella asiatica</i> (L.) Urb.	2013-2014	Degree Awarded
Fatima Binte Noor	Metabolite Fingerprinting and Profiling of an Ethnopharmacological Important Medicinal Plant <i>Phyllanthus amarus</i> Schum	2012-2013	Degree Awarded

PERSONAL

Date of birth: 12-02-1977. **Marital Status:** Married, **Health:** Excellent (Non-smoker).

Research Interest: Natural Products, Nano Material Science or any subject related with chemical engineering.

Signature



Sharif Md. Al-Reza