

# Salina Rahman

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Department of Chemistry, Bangabandhu Sheikh Mujibur Rahman Science and Technology University,  
Gopalganj-8100, Bangladesh.

## CAREER OBJECTIVE

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I would like to build up my career as an academician with strong activities in research. Seeking responsibilities and opportunities in those areas where academic background and skills can be exercised and field of interests are also synchronized in order to develop, extend and upgrade my career. I would prefer to serve under a disciplined atmosphere and uniform assistance. It is my utmost pleasure and interest to learn new things and enjoy collaborating with experts from different disciplines to develop new skills and solve new challenges.

## EDUCATION

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### Jahangirnagar University

Savar, Dhaka, Bangladesh

April, 2014-May, 2016

### Master of Science in Chemistry (3.79 out of 4.00)

(Obtained 4<sup>th</sup> highest GPA in Inorganic Chemistry)

**Thesis Title:** Aroylhydrazinato nickel (II) complexes having monoester linkage: synthesis, spectroscopic characterization and mesomorphism.)

### Jahangirnagar University

Savar, Dhaka, Bangladesh

January, 2010-March, 2014

### Bachelor of Science in Chemistry (3.72 out of 4.00)

(Obtained 7<sup>th</sup> highest cGPA in a class of 60 students)

**Industrial Training:** Completed undergraduate In-plant Training at Institute of Nuclear Science and Technology of Atomic Energy Research Establishment, Gonokbari, Savar, Bangladesh.

### National Ideal College

Khilgaon, Dhaka, Bangladesh

August 2007- July 2009

**Higher Secondary Certificate (5.00 out of 5.00).** (Achieved Dhaka board scholarship)

### Sir K. G. Gupta High School

Panchdona, Narshingdi, Bangladesh

January, 1997- June 2007

**Secondary School Certificate (5.00 out of 5.00).** (Achieved Dhaka board scholarship)

## PROFESSIONAL EXPERIENCES

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### Bangabandhu Sheikh Mujibur Rahman

Science and Technology University

Gopalganj-8100, Bangladesh.

April, 2021- Present

### Assistant Professor (Inorganic Chemistry)

- Conducting course and lab classes for undergraduate students.
- Preparing examination question papers, examining and reviewing the answer scripts.
- Carrying out administrative work.
- Consulting students.

**Bangabandhu Sheikh Mujibur Rahman  
Science and Technology University**  
Gopalganj-8100, Bangladesh.  
December, 2017- April, 2021

**Lecturer (Inorganic Chemistry)**

- Conducted course and lab classes for undergraduate students.
- Prepared examination question papers, examined and reviewed the answer scripts.
- Carried out administrative work.
- Consulted students.

**Bangladesh Council of Scientific and  
Industrial Research**  
Dhanmondi, Dhaka, Bangladesh  
July, 2016- December, 2017

**Postgraduate Research Fellow**

- Carried out research on a R&D project (Project Title: Fabrication and Characterization of a ceramic magnet (strontium ferrite) to use in electric motor for automobiles.)

**Institute of Nuclear Science and  
Technology, Bangladesh Atomic Energy  
Research Establishment**  
Gonokbari, Savar, Dhaka, Bangladesh.  
November, 2013 (4 weeks)

**Trainee**

- Got to learn Neutron activation Analysis for quantitative estimation of Chromium in fish feed.

## RESEARCH EXPERIENCES

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While pursuing my Master degree, I performed thesis work in inorganic chemistry under the supervision of Prof. Dr. Mohammad Nurul Abser. The title of the thesis was “Aroylhydrazinato nickel (II) complexes having monoester linkage: synthesis, spectroscopic characterization and mesomorphism”. Mainly I was synthesizing Aroyl hydrazinato Nickel (II) complexes having mono ester linkage and then analyze their molecular structure through spectroscopic method such as UV-Visible, IR and <sup>1</sup>H-NMR spectroscopic analysis and <sup>13</sup>C-NMR, Dept-135 as well as HSQC, HMBC. and investigate their mesomorphism by polarizing optical microscope fitted with a hot and cold stage and Differential Scanning Calorimetry (DSC). This research work helped a lot to build up the fundamental knowledge in synthesis and characterization with practical experiences.

Then I carried out research in a R&D project as a Research Fellow under the supervision of Engr. Nahid Sharmin and Md. Lutfor Rahman. The title of the project was ‘Fabrication and Characterization of a ceramic magnet (strontium ferrite) to use in electric motor for automobile’. In this project I synthesized a magnetic particle (Strontium ferrite; SrFe<sub>12</sub>O<sub>19</sub>) applying different method such as co-precipitation method, sol-gel method, solid state method etc. and then characterize the products with X-Ray Diffraction method (XRD), Thermogravimetric Differential Thermal Analyzer (TG-DTA), Scanning Electron Microscopy (SEM), Particle size analyzer and Vibrating Sample Magnetometer (VSM).

## PUBLICATIONS

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- ‘**Fabrication of Ferrous Sulfate from Waste Like Condensed Milk Containing Can and its Characterization**’ Juliya Khanam\*, Lutfor Rahman, Bristy Biswas, **Salina Rahman**, Nahid Sharmin, Samina Ahmed, Tahuran Neger, *American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS) (2018) Volume 42, No 1, pp 157-165.*
- ‘**Synthesis, Characterization and Liquid crystal properties of biphenyl-alkyloxy benzoates**’ M. N. Abser, M. E. Molla\*, T. Haque<sup>1</sup> M. Z. Hossain and **S. Rahman**, *Journal of Bangladesh Chemical Society; Vol 30(2), July-December, 2018*

- **‘Investigation of the interaction of drug Tetradecyltrimethylammonium Bromide with Cetyltrimethylammonium Bromide at different temperature’** Md. Matiar Rahman\*, **Salina Rahman** and Nasiruddin, *Asian Journal of Chemical Sciences*, 7(4): 15-24, 2020; Article no. *AJOCS.55517*; ISSN: 2456-7795.
- **‘Contamination Level of Heavy Metals in Vegetables and Soils of Lalmonirhat in Bangladesh’** Md. Matiar Rahman\* and **Salina Rahman**, *Asian Journal of Applied Chemistry Research*, 5(3): 13-21, 2020; Article no. *AJACR.56875*; ISSN: 2582-0273.
- **‘A comprehensive review on heavy metal contamination in the urban river Buriganga Bangladesh: restoration perspectives’** Minhazul Abedin, Md. Mahedi Hassan, Nasiruddin\*, **Salina Rahman**, Md. Mostafizur Rahman, Md. Kudrat E Zahan, Md. Yeamin Hossain, *International Journal of Biosciences (IJB)*, Vol. 18, No. 3, p. 164-181, 2021, ISSN: 2220-6655 (Print), 2222-5234 (Online).

## ACADEMIC ACHEIEVMENTS and AWARDS

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- Professor Mofizuddin Ahmed Memorial Postgraduate Fellowship (Chemistry), Bangladesh Council of Scientific and Industrial Research, Dhaka, Bangladesh, 2016.
- 2<sup>nd</sup> prize in Poster presentation on 1st International Conference on Engineering Materials and Metallurgical Engineering (ICEMME), 22-24 December, 2016, organized by Pilot Plant and Process Development Centre (PP&PDC), Bangladesh Council of Scientific and Industrial Research (BCSIR).
- National Science & Technology Fellowship (NST), Ministry of Science and Technology, Bangladesh, 2015– 2016 for M.Sc. study
- Active Fine Chemicals Limited Scholarship, 2014 (for top 10 MSc students from the Department of Chemistry).
- University Merit Scholarship, 2010 – 2013 (for top 50% BSc (Honors) students within the Department).
- Government of Bangladesh Dhaka Board Scholarship for Higher Secondary School Certificate Examination, 2009 (for top 10% students within Dhaka board).
- Government of Bangladesh Dhaka Board Scholarship for Secondary School Certificate Examination, 2007 (for top 10% students within Dhaka board).

## CONFERENCES

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- Bangladesh Chemical Congress, 2010 and 2012, Dhaka, Bangladesh.
- National Conference of Bangladesh Crystallographic Association, 2015, Dhaka, Bangladesh.
- 16th Asian Chemical Congress, 2016, Dhaka, Bangladesh.
- Poster presentation on 16th Asian Chemical Congress, 2016, Dhaka.  
Title: 'Synthesis, characterization and liquid crystallinity of some aroylhydrazinato nickel (II) complexes containing vanillin –ester moiety'.
- Poster presentation on 1st International Conference on Engineering Materials and Metallurgical Engineering (ICEMME), 22-24 December, 2016, Organized by Pilot Plant and Process Development Centre (PP&PDC), Bangladesh Council of Scientific and Industrial Research (BCSIR).  
Title: ‘Aroyl hydrazinato nickel (II) complexes having mono ester linkage: synthesis, characterization and mesomorphism’.
- 15<sup>th</sup> Annual Conference- organized by Bangladesh Ceramic Society, 6-7, April, 2017, Dhaka, Bangladesh. Theme:” Ceramic for Environment.”

## RESEARCH INTEREST

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During my M.S. thesis and postgraduate research activities, I performed synthesis and characterization of some noble compounds and eventually it helped to grow my interest in this area of Chemistry. Inorganic synthesis and characterization, is an area of Chemistry, through which one can understand about innovative materials. A single material can change the world. I am highly interested to continue my research work in 'Synthesis and Characterization'. I wish to develop useful reagents, noble catalysts, functional energy materials that can help to the advancement of science and technology. I also would like to involve myself to study and discover new, greener and sustainable ways to prepare those chemical compounds.

## LANGUAGE SKILLS

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- English: Good in reading, writing, listening and speaking. IELTS band score 6.5. Listening: 7.5, Reading 6.0, Writing 6.5, Speaking 6.0.
- Bengali: Native language.

## ADDITIONAL ACTIVITIES

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- Chairman, Department of Chemistry, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh, November, 2021-Present.
- Assistant Provost: Sheikh Rehana Hall, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Bangladesh, December 2017 –July 2021.
- Oral presentations: Presented my postgraduate fellowship research outcome at Bangladesh Council of Scientific and Industrial Research, August, 2017.
- Oral presentations: Presented my MSc research findings and Internship learnings to the Department of Chemistry at Jahangirnagar University, March 2016 and March 2014, respectively.

## REFERENCES

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### Reference 1

Dr. Md. Nurul Abser  
Jahangirnagar University

Professor, Department of Chemistry

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Bangladesh

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### Reference 2

Dr. Shahed Rana  
Jahangirnagar University

Associate Professor, Department of Chemistry

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Bangladesh

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