

## PARTHA SARATHI ROY

Assistant Professor, Department of Chemistry  
Gopalganj Science and Technology University, Gopalganj-8105, Bangladesh  
<https://www.gstu.edu.bd/dev/dept/profile.php?dept=chem&id=13>  
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### EDUCATION

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- **Jahangirnagar University, Savar, Dhaka-1342, Bangladesh**  
**Master of Science (M.S.)** Feb. 2013-Dec. 2014  
Major: **Inorganic Chemistry (Thesis group)**  
GPA: **3.62** out of 4.0
- **Jahangirnagar University, Savar, Dhaka-1342, Bangladesh**  
**Bachelor of Science (B.Sc.) Honours** Jan. 2008-Jan. 2013  
Major: **Chemistry**  
CGPA: **3.61** out of 4.0 (ranked 3<sup>rd</sup> out of 50 students)

### TEACHING EXPERIENCE

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- **Gopalganj Science and Technology University, Gopalganj-8105, Bangladesh**  
Designation: **Assistant Professor** June 25-Present  
Designation: **Lecturer** Feb. 2022-Jun. 25  
Designation: **Part-time Lecturer** Jan. 2018-Feb. 2022  
**Key Responsibilities:**
  - Conducting courses and lab sessions at undergraduate and graduate (M.S.) level
  - Serving as both chairman and member of several examination committees, arranging and proctoring examinations and preparing their results.
  - Guiding and assisting students in their M.S. thesis work and publishing them.
- **Jahangirnagar University School and College, Savar, Dhaka, Bangladesh**  
Designation: **Part-time Teacher at secondary level (Chemistry)** Apr. 2015-Jan. 2018

### RESEARCH EXPERIENCE

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#### Research Interest

- Materials science and Organometallic Chemistry.

#### M.S. Thesis:

- **1 year thesis work** (Thesis title: *Synthesis and Characterization of Triruthenium Clusters Containing Phosphorus and Germanium Donor Ligands*)  
**Thesis Supervisor:** Prof. Dr. Shariff Enamul kabir ([ResearchGate link](#))

#### Supervision Experience

- Guided **seven** Master's students in thesis work collaborating with other research institutions

- Mentored students on experimental design, data analysis, and thesis/report writing.

## PUBLICATIONS

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- Md. S. Mahmud, Gourango Ray, Dipu Ghosh, Imdadul Haque, **Partha S. Roy**, Tanvir Ahmed, Md. S. Islam, Md. S. Kuddus, Md. A. Alam, Md. Hasanuzzaman, Riyadh H. Vhuiyan, Trisha Paul, Shirin A. Jahan and Umme S. Akhter (2026). RHA-derived NaX zeolite for structure-performance relationship in cationic dye removal. *Microporous and Mesoporous Materials*, 2026, 413, 114283 ([Link](#))
- Md. A. Alim, Md. A. Bashar, **Partha S. Roy**, Md. N. Khan, Pijush K. Roy, Md. S. Ali, Md. R. H. Ansary and Md. M. Hossain (2024). Synthesis, Physical, Spectral Characterization and Biological Studies of the complexes of  $\text{Ni}^{2+}$ ,  $\text{Cu}^{2+}$ ,  $\text{Co}^{2+}$  and  $\text{Cd}^{2+}$  ions with Schiff Base Derived from p-hydroxybenzaldehyde and o-Phenyl-diamine. *Oriental Journal of Chemistry*, 2024, 40, 5. ([Link](#))
- **Partha S. Roy**, Md. A. A. Mamun, Roknuzzaman, Shishir Ghosh, Shariff E. Kabir (2021). Triruthenium clusters containing mono and bidentate phosphines: Synthesis, structure, thermal reactivity and fluxional behavior; *Journal of the Indian Chemical Society*, 2021, 98, 2, 100023 ([Link](#))
- **Partha S. Roy**, Md T. R. Joy, Shishir Ghosh, Derek A. Tocher, Vladimir N. Nestrov, Michael G. Richmond, Shariff E. Kabir (2019). Reactions of  $[\text{Os}_3(\text{CO})_{10}(\mu\text{-dppm})]$  and  $[\text{HOs}_3(\text{CO})_8\{\mu_3\text{-Ph}_2\text{PCH}_2\text{P(Ph)C}_6\text{H}_4\}]$  with  $\text{Bu}_3\text{GeH}$ : Ge–H and Ge–C bond cleavage at triosmium centers; *Journal of Organometallic Chemistry*, 2019, 898, 120862 ([Link](#))

## CONFERENCE PRESENTATIONS

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### 5th conference of Bangladesh Crystallographic Association

**Poster presentation (PP20):** Partha S. Roy and Shariff E. Kabir. Transformation of Tributylgermyl Ligands in Phosphine-bridged Triosmium Carbonyl Cluster Complexes. (Jan. 2019)

## INTERNSHIP & TRAINING

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- Successfully completed a one-month internship at the ACME Laboratories Ltd. is a leading company for manufacturing world-class pharmaceutical products in Bangladesh. **Nov. 2012**
- Participated in a workshop on “National Integrity Strategy, Service Delivery and Good Governance arranged by the Ministry of Planning, Bangladesh. **09 Sep. 2014**
- Successfully completed 24 days CPD for agreed subject training in (Chemistry) under Teaching Quality Improvement-II in Secondary Education Project, Directorate of Secondary & Higher Education, Ministry of Education. **Jan.2016 – Feb. 2016**

## TECHNICAL SKILLS

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- **Instruments:**

- a. UV-Visible Spectrophotometer
- b. Atomic Absorption and Emission Spectrophotometer
- c. Fourier Transform Infrared Spectroscopy (FTIR)

- **Software:**

- a. Microsoft office, LaTeX, Excel, Power Point and ChemDraw 16.0

## AWARDS/SCHOLARSHIPS

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- Jahangirnagar University's complementary scholarship for four consecutive years of academic achievement throughout undergraduate studies. **2009-2012**
- JUCAF scholarship from Department of Chemistry, Jahangirnagar University for securing first position in 1<sup>st</sup> year B.Sc. (Hons.) examination-2009. **2013**

## VOLUNTARY ACTIVITIES

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- Worked as the secretary for Science and Technology Affairs of “**Shikdermallik Union Welfare Society**” which is a nonprofit welfare organization in my union, Juzkhola, Pirojpur. **2020-2022**

**Key responsibilities:**

- a. Provided proper guidance and counseling to lagging students and wrong-headed peoples
- b. To develop values, respect and ethics through dynamism in social entrepreneurship

## EXTRA-CURRICULAR ACTIVITIES

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- Served as Assistant Proctor, GSTU, Gopalganj-8105, Bangladesh. **Aug. 2022- Nov. 2024**
- Served as the **president** of the Central Temple Management Committee of the "Sanatan Sangha" of GSTU, Gopalganj, Bangladesh. **Jul. 2022- Dec. 2023**
- Arranged a number of cultural events and took part in a number of plays performed at Jahangirnagar University's Department of Chemistry.