

CURRICULUM VITAE

Dr. ATOWAR RAHMAN

(M.Sc (Gold Medal), CSIR-NET JRF-2017 (AIR-128) & 2018(AIR-138), PhD (Tezpur University)

Father's Name: Mr. Liakat Ali

Vill: Khameri

P.O +P.S.: Nagarbera

Dist: Kamrup

State: Assam (India)

Pin code: 781127

Email: atowar.r@gmail.com

Phone no: +91 8011508623, 9365509730

YouTube Channel: <https://www.youtube.com/@atowarrahman2037>

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

Research gate: https://www.researchgate.net/profile/Atowar-Rahman-2?ev=hdr_xprf



Correspondence Address: Sijubari, Hatigaon, Guwahati, Kamrup (M), 781038.

Current Position: Assistant Professor in the department of Physics, USTM.

Languages Known: English, Hindi, Assamese, Bengali.

Teaching Experience:

- 06 years teaching experience as a resource person for UGC-CSIR NET, GATE, JEST, TIFR, BARC, ISRO, NE-SLET, IIT-JAM examinations (Subject: Physics) at USTM.
- 01 year teaching experience as mentor for UGC-CSIR NET, GATE, JEST, TIFR, BARC, ISRO, NE-SLET, IIT-JAM examinations (Subject: Physics) at Physicist Academy, Guwahati.
- 02 years teaching experience as an Assistant Professor at University of Science and Technology, Meghalaya (USTM), both for UG & PG courses.
- 01 year teaching experience (H.S. Level) as a faculty member at Eklavya Tutorial.
- 02 years teaching experience (H.S. Level) as a home tutor.

Research Experience:

- 06 years research experience in the area of material science (Energy storage, Electrospun Nanofiber, Supercapacitor, Battery)

Education:

Ph.D: Department of Physics, Tezpur University, 2025

M.Sc. (Physics): Department of Physics, Cotton University, 2016

Specializations: Condensed Matter Physics.

Award: 1st rank in Physics (**Gold Medal**).

B.Sc. (Physics): Department of Physics, Dakshin Kamrup College, Mirza, Gauhati University, 2014

A.H.S.E.C. (Science): Dakshin Kamrup College, Mirza, Gauhati University, 2014

H.S.L.C: Nagarbera Higher Secondary School, Nagarbera, 2010

National level exam: I have cleared **CSIR- NET (JRF)** in 2017 and **UGC- NET (JRF)** in 2018 with AIR-128 and AIR-138 respectively.

Field of Interest:

Energy storage, Supercapacitor, Battery, Water splitting, Polymer, Electrospinning, Nanoscience.

Technical skills:

- Basic Computer, MS Office, Microsoft Excel, Origin etc.

Publications:

1. **A. Rahman**, D. Sarmah, S. K. Das, “A study on Al^{3+} ion capacitor with MoO_3 nanorod and aqueous gel electrolyte”. **Ionics**, 29 (**2023**) 4253-4261.
2. **A. Rahman**, S. K. Das, “An asymmetric Al^{3+} ion supercapacitor with vanadium oxy-acetylacetonate and polyaniline electrodes”. **Materials Letters**, 360 (**2024**) 135982.
3. **A. Rahman**, S. K. Das, “Monovalent and polyvalent ion storage in vanadyl acetate for electrochemical capacitor”, **Materials Letters**, 387 (**2025**) 138273.
4. **A. Rahman**, “ Al^{3+} ion storage behaviour in organic-inorganic vanadyl acetate with aqueous and gel electrolytes”. **Interactions**, 245, (**2024**) 361.

Academic activities and achievements:

1. Qualified **CSIR JRF(NET) physics** December 2017.
2. Qualified **UGC JRF (NET) physics** December 2018.
3. Attended a workshop on “**Astronomical Data Analysis**” organised by IUCAA at J. B. College, 2016.

4. Attended a Camp for “**Hands on Experience in Radio Astronomy**” organized by TIFR at RAC, Ooty (Tamil Nadu), 2016.
5. Attended workshop on “**Recent Trends on General Theory of Relativity and Cosmology**” at CCSU, 2016.
6. Attended workshop on ‘**Characterization of Magnetic Materials**’, by UGC DAE Consortium for Scientific Research, Mumbai Centre, a NIT Nagaland, Dimapur, 2019.
7. Oral presentation on **Nanorod structure of MoO₃ & rGO/MoO₃ for aqueous Al ion supercapacitor** in national conference in the department of physics, Tezpur University, 2023.
8. Poster presentation on “**Al³⁺ ion storage behaviour in Polyaniline with aqueous electrolyte**” in national conference in the department of physics, North Lakhimpur College (Autonomous), 2023.
9. Poster presentation on “**An asymmetric Al³⁺ ion supercapacitor/electrochemical capacitor with vanadium oxy-acetylacetonate and polyaniline**” in national conference CMDAYS -2023, department of physics, Tezpur University, 2024.
10. Poster presentation on “**Al³⁺ ion storage behavior in Organic-inorganic Vanadyl Acetate with aqueous electrolyte**” in international conference ICMS 2024, department of physics, Tripura University, 2024.
11. Oral presentation on “**Alternative choice of lithium ion-based energy storage: A mini study of Al³⁺ ion storage-based electrode materials using aqueous system**” in international conference ICFPAP-2024, department of Physics, USTM, 2024.
12. Attended a national workshop “**Frontiers in Material Sciences: Challenges and Opportunities**”, organized by department of Chemical Science, Tezpur University, (7-8th March), 2024.
13. Attended **International Young Researchers’ Conclave and Rural Science Congress (IYRCRSC-2025)**, March 6-8, 2025, at Assam University, Silchar.

Awards and honours

- **Gold Medal** in Physics (M.Sc.), 2016.
- Anundoram Boruah award, 2007.

Declaration:

I do hereby declare that all the above information's are true to the best of my knowledge.

Place: Guwahati

A handwritten signature in black ink, reading "Afcoar Rahman". The signature is written in a cursive style with a large, stylized initial 'A'.