FAHMIDA FAKHERA

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EDUCATION

Completion Date

Master of Science in Physics (Thesis)

September 2022 | Jahangirnagar University, Savar, Dhaka 1342, Bangladesh

Thesis title "First Principle Insight on the Structural and Optoelectronic

Properties of Indium and Sodium Doped Double Perovskites"

2019

Bachelor of Science in Physics Jahangirnagar University, Savar, Dhaka 1342, Bangladesh

Grade Point Average (CGPA) of 3.74 out of 4.00

2015

Higher Secondary Certificate Examination (HSC) Holy Cross College, Science, Dhaka Board Grade Point Average (GPA) of 5.00 out of 5.00

2013

Secondary Certificate Examination (SSC) Ideal School And College, Science, Dhaka Board Grade Point Average (GPA) of 5.00 out of 5.00

EMPLOYMENT

APRIL 2020 TO

Citizen Scientist

May 2020

International Astronomical Search Collaboration

PUBLICATION/SUBMITTED FOR PUBLICATION

- Fahmida Fakhera, Naafis Ahnaf Shahed, Shamima Khanom, Md. Kamal Hossain, Farid Ahmed. A first-principle study on structural, mechanical, electronic and optical properties of half-metallic CaYSi2O6 (Y= Co, Fe, Mn) clinopyroxenes. Computational Condensed Matter, Volume 33, , 2022, https://doi.org/10.1016/j.cocom.2022.e00749.
- 2. Fahmida Fakhera, Prianka Mondal, Mst Shamima Khanom, Shariful Islam, Md. Kamal Hossain, Farid Ahmed. Optical Response and Bandgap Transition in Cs2AgInxBi1-xCl6: The Density Functional Theory Approach. Spin-World Scientific, Under review, 2022
- 3. Fahmida Fakhera, Kamal Hossain, Mst Shamima Khanom, Farid Ahmed. Understanding the Impact of Y2+ (Y=Mn, Fe, and Co) Cations on Physical Properties of SrYGe2O6 Clinopyroxene: A DFT Insight. Journal of Physics and Chemistry of Solids, 1st Revision, 2022

POSTER PRESENTATION

1. Fahmida Fakhera, Shamima Khanom, Farid Ahmed. Optical Response and Bandgap Transition in Cs2AgInxBi1-xCl6: The Density Functional Theory Approach. International Colloquium on Authentic Scientific Publications, , July, 2022

AWARDS & HONORS

2021 TO 2022

National Science and Technology Fellowship Ministry of Science and Technology (Bangladesh)

CERTIFICATIONS

- 1. Certificate of Attendance, Holy Cross College (2013-2015)
- 2. Certificate of Merit in 51th Annual Sports Day (Chess)
- 3. Certificate of achievement (Champion, 2nd Inter Class Debate Competition 2011)
- 4. Attendee (Debate Workshop 2016)

RESEARCH GRANT

2022

Postgraduate Research Support (Ministry of Science and Technology under the NST Fellowship)

Professional Skills

- Analytic theory
- Data analysis
- Observational data analysis from radio telescope (e.g., Pan-STARRS)
- Oral presentation
- Written communication

Computer Skills

PROFICIENT | Material Studio, Origin, MS Word, MS Excel, and MS Powerpoint Basic | C and C++

Language Proficiency

English, German (A1)

Research Fields

Computational Condensed Matter Physics, Material Science, Semiconducting Materials, Half-metals

Reference

Dr. Farid Ahmed

Professor

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