CURRICULUM VITAE

Personal Details:

Dr. Mukunda Madhab Borah.
Assistant Professor
Department of Physics
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Academic Qualification:

B.Sc. (2009-2012): Madhabdev College, Narayanpur, Dibrugarh University

M.Sc. (2012-2014): Rajiv Gandhi University, Doimukh, Itanagar, Arunachal Pradesh.
Specialisation : Solid state Physics.

Ph.D. (2014-2018): North Eastern Regional Institute of Science and Technology, Nirjuli, Itanagar, Arunachal Pradesh.
Title of the Thesis: Raman and IR studies of complex Biomolecular system.

Award:

INSPIRE Fellowship (JRF), Department of Science and Technology, New Delhi.

Professional Details:

Guest Assistant Professor (January, 2019 – December, 2019)
Rajiv Gandhi University, Doimukh, Itanagar, Arunachal Pradesh.

Assistant Professor (February, 2020- Till now).
DCB Girls' College, Jorhat,Assam.

Research Interest:

Spectroscopy, Computational and Theoretical Chemistry.

Journal Publications:

1. Mukunda Madhab Borah, Thongam Gomti Devi, The vibrational spectroscopic studies and molecular property analysis of L-Phenylalanine using quantum chemical method, Journal of Molecular Structure, 1136 (2017) 182-195.
2. Mukunda Madhab Borah, Thongam Gomti Devi, Vibrational studies of Thyroxine hormone: Comparative study with quantum Chemical calculations, Journal of Molecular Structure, 1148 (2017) 293-313.

3. Mukunda Madhab Borah, Thongam Gomti Devi, Vibrational study and Natural Bond Orbital analysis of Serotonin in monomer and dimer states by Density Functional Theory, Journal of Molecular Structure 1161 (2018) 464-476.
4. Mukunda Madhab Borah, Thongam Gomti Devi, The Vibrational Spectroscopic studies and molecular property analysis of Estradiol, Tamoxifen and their interaction by Density functional theory, Journal of Molecular Structure 1163 (2018) 205-220.
5. Mukunda Madhab Borah, Structural and spectroscopic analysis of L-Proline monomer and dimer by DFT approach, Vietnam Journal of Chemistry, 20 (2022) 718-737.

Book Chapters:

1. **Name of the Book:** Recent researches in Advanced Physics.
   ISBN: 978-620-0-27813-5.
   Published by: Lambert Academic Publishing.
   Chapter: Half metallic ferromagnetism in Zn1-xFexS and Zn1-xNixS diluted magnetic semiconductors: A first principle calculation, 2019.

2. **Name of the Book:** Research Trends in Multidisciplinary Research.
   Paperback ISBN: 978-93-5335-688-0, **E-Book ISBN:** 978-93-5335-689-7.
   Chapter: Ferromagnetism in Fe Doped ZnO Diluted Magnetic Semiconductors at Room Temperature.
   Published by: AkiNik Publications, **Year:** 2019.

3. **Name of the Book:** Research Trends in Chemical Sciences.
   Paperback ISBN: 978-93-5335-684-2, **E-Book ISBN:** 978-93-5335-685-9.
   Chapter: Spectroscopic Studies of Biomolecules.
   Published by: AkiNik Publications, **Year:** 2019.

4. **Name of the Book:** Research Trends in Science and Technology.
   ISBN: 978-93-5570-344-6.
   Chapter: Nanocarrier Mediated Non-Transformative Gene Silencing in Management of Insect Pests in Plants.
   Published by: AkiNik Publications, **Year:** 2022.