

# Dr. Avishek Ghosh

M.Sc., Ph.D  
Assistant Professor



+91 8280103667



Avishek.ghosh.mcc@gmail.com



Midnapore, West Bengal, India

## Midnapore City College

### Academic Details

Sl. No.	Degree	Specialization	Year of passing	Institution	Board/ University
1	Ph.D	Organometallic Chemistry	2019	NIT Rourkela	NIT Rourkela
2	M.Sc.	Organic Chemistry	2011	Vidyasagar University	Vidyasagar University
3	B.Sc.	Chemistry	2009	Midnapore college	Vidyasagar University
4	H.S. (10+2)	Science	2005	Midnapore collegiate school	W.B.C.H.S.E.
5	Madhyamik (10 <sup>th</sup> )		2003	Midnapore collegiate school	W.B.B.S.E.

### Ph.D Details

**Ph.D Thesis Title:** Synthesis and characterization of mono-, di- and triferrocenyl Based molecular compounds and study their electronic communication and photovoltaic performance

**Guide's Name:** Dr. Saurav Chatterjee, Professor  
Department of Chemistry, NIT Rourkela, Odissa, India.

**University:** NIT Rourkela,  
Rourkela, Odissa

**Date of Award:** 22<sup>nd</sup> Jan, 2019

### Teaching/ Research Experience

- As an Assistant Professor of Chemistry, Department of Chemistry, G.H.college of engineering, Nagpur, Maharashtra, on and from 3<sup>rd</sup> August, 2018 to 24 may 2019.
- As an Assistant Professor of Chemistry, Department of Pure and applied science, MIDNAPORE CITY COLLEGE, Kuturiya, Bhadutala, Paschim Medinipur – 721129, West Bengal on and from 7<sup>st</sup> July, 2019 to till date.

### Achievements

- Co-Scientist DST-DAAD research project from 2015-2017

### Expertise

- Reagent Chemistry
- Photo chemistry
- Catalysis
- Spectroscopy

## Summary

At present, I am working as an Assistant Professor in Chemistry, Department of Pure and applied science, Midnapore City College. My research interests are novel organometallic and organic compound synthesis and there anticancer and photo voltaic properties study.

## Teaching Interest

PG: Organic chemistry,

UG: Organic Chemistry

**Publications (List of papers published in SCI Journals, in year wise descending order)**

1. S. Mishra, V. Tirkey, **A. Ghosh**, H. R. Dash, S. Das, B. P. Nayak, M. Shukla, S. Saha, S. M. Mobin, S. Chatterjee. (2015) Ferrocenyl-cymantrenyl hetero-bimetallic chalcones: Synthesis, structure and biological properties., *J. Mol. Structure*, Vol:1085. pp. 162. *Impact Factor: 2.011*
2. R. Boddhula, **A. Ghosh**, C. Wolper, S. M. Mobin, S. Chatterjee (2017) Synthesis and structure of open and closed type iron telluride-stibine cluster compounds, *J. Organomet. Chem*, Vol:851. pp. 22. *Impact Factor: 2.173*
3. **A. Ghosh**, S. Mishra, A. Bera, S. M. Mobin, S. Chatterjee (2018) Electrolyte-free dye sensitize solar cell with high open circuit voltage using a bifunctionalferrocene based cyanoviny molecules as dye and redox couple. *Organometallics*, Vol:37. pp. 1999, *Impact Factor: 3.862*
4. **A. Ghosh**, T. Barik, S. Dewangan, S. M. Mobin, S. Chatterjee (2019) Selective functionalization of ferrocenyl compounds using a novel solvent free synthetic method for the preparation of bioactive unsymmetrical ferrocenyl derivatives. *Appl. Organomet. Chemistry*, Vol:33. pp. 4838. *Impact Factor: 3.581*
5. T.Barik, **A.Ghosh**,A. Mishra, R. Dhiman, T. Sasamori, S. Chatterjee (2020) Bioactive 1,1'-unsymmetrical bi-functional ferrocenyl compounds using a novel solvent free one pot multicomponent reaction method, *J. Organomet. Chem.*, Vol:908. pp. 121095. *Impact Factor: 2.173*
6. T.Barika , A.Ghosha, S. M. Mobinb , S. Chatterjee (2020) Solvent free synthesis of vinylcyanoacetohydrazone bridged diferrocenyl organometallic compounds as bifunctional molecule for donor-acceptor and photovoltaic properties, *J. Organomet. Chem.*, Vol:933. pp. 121648. *Impact Factor: 2.173*
7. A.Ghosh\*,P.Karan, H.Shoo,(2021) "Biologically active Ferrocene based compounds as potential inhibitors of RNA dependent RNA polymerase (RdRp) of SARS-CoV-2: A molecular docking study", Submitted