



# BARASAT GOVERNMENT COLLEGE

## TEACHER'S PROFILE

*DR JIBANANDA JANA, DEPARTMENT OF CHEMISTRY*

- **DESIGNATION** : Associate Professor
- **QUALIFICATION** : M.Sc., Ph.D.
- **DATE OF JOINING THE SERVICE** : May 30, 2006
- **DATE OF JOINING THE INSTITUTION** : Mar 5, 2019
- **ADDRESS FOR COMMUNICATION** : 16/1, Purba Sinthi lane, Kadamtala Bazar, Kol-30.
- **PHONE NO** : 9434240267
- **EMAIL ADDRESS** : jjana291072@gmail.com
- **SPECIALIZATION** : Inorganic Chemistry
- **TEACHING EXPERIENCE** : UG: more than 15 years under WBES and more than 4 years in Non Govt. College
- **COLLEGE SERVED** : (1) Krishnagar Govt. College from 30.05. 2006 to 22.05.2014  
(2) A. B. N. Seal College from 23.05.2014 to 02.03.2019  
(3) Barasat Govt. College from 05.03.2019 to cont..  
(4) Krishnath College from 01.04.2002 to 29.05.2006 (Non Govt. College)

➤ **ACADEMIC AND ADMINISTRATIVE EXPERIENCE** : Acted as Examiner, Head Examiner and paper Setter and Convenor and member of various administrative sub committees like purchase, admission, pay fixation, etc. in Government and non Government Colleges( Krishnagar Govt College, ABN Seal College, Barasat Govt College and Krishnath College) of West Bengal.

➤ **TOPICS TAUGHT** : Atomic Structure, Periodic Properties, Chemical Bonding, Acid Base, Redox, Radioactivity, Organometallic Chemistry.

➤ **AREA OF RESEARCH & INTEREST** : Density functional and Quantum Chemical Studies on Donor-Acceptor Complexes, Energy Partitioning, Localization

➤ **ONGOING PROJECT DETAILS** : NONE

➤ **AWARD RECEIVED** : NONE

➤ **PATENT DETAILS** : NONE

➤ **EXTRACURRICULAR ACTIVITIES** : NONE

➤ **CAREER PROFILE** : B. Sc. University of Calcutta 1992; M. Sc. University of Kalyani 1994; Ph. D. University of Kalyani 2002

➤ **ACADEMIC LINK**

- 1. [https://scholar.google.com/scholar?cites=3126372486466034376&as\\_sdt=2005&sciodt=0,5&hl=en](https://scholar.google.com/scholar?cites=3126372486466034376&as_sdt=2005&sciodt=0,5&hl=en)
- 2. <https://www.jstor.org/stable/24100759>
- 3. <https://onlinelibrary.wiley.com/doi/abs/10.1002/qua.10087>
- 4. <https://onlinelibrary.wiley.com/doi/abs/10.1002/qua.10482>
- 5. <https://pdfs.semanticscholar.org/1c9f/ca5892a213e2eb9d4c280ae139af2c0cb26a.pdf>. <http://nopr.niscair.res.in/handle/123456789/182327>. <https://www.researchgate.net/profile/libanapanda>

## PUBLICATION

### JOURNAL PUBLICATION :

- (1) Jibanananda Jana, 'Density functional and molecular orbital Studies on the toxicity of an anticancer drug ferrocenophane polyphenol and it's metabolite quinone methide', International Research Journal Natural and Applied Science, 191, Sec 18, Yamuna Nagar 135001, Haryana, India., 2015, 2349—4077
- (2) Jibanananda Jana, 'Systematic approach for the bonding in ferrocene', Research and Reviews : Journal of Chemistry, 15th Floor, North Block, Divyasree SEZ Campus Raidurg, Hyderabad 500 081 India., 2014, 2319-9849
- (3) Jibanananda Jana, 'Relative stabilities of two difluorodiazine isomers: density functional and molecular orbital Studies.', Reports in theoretical chemistry, Auckland, New Zealand., 2012, 2230-410x
- (4) Jibanananda Jana, 'Density functional and molecular orbital Studies on the activation of Donor Acceptor sub systems, charge Transfer and bonding in the BH<sub>3</sub>NCH and BH<sub>3</sub>NCCH<sub>3</sub>', International Journal of pure and Applied Chemistry, Firat University, Sciences and Arts Faculty, Department of Chemistry, 23119 Elazig- Turkey, 2007, 0973-3876
- (5) Dulal C. Ghosh and Jibanananda Jana, 'Frontier orbital and density functional study of the variation of the hard-soft behaviour of monoborane(BH<sub>3</sub>) and boron trifluoride (BF<sub>3</sub>) as a function of angles of reorganization from planar(D<sub>3h</sub>) to Pyramidal (C<sub>3v</sub>) shape', International journal of Quantum Chemistry, Uppsala University Sweden., 2003, 0020-7608
- (6) Dulal C Ghosh, Jibanananda Jana and Soma Bhattacharyya, 'Density functional and molecular orbital Study of physical process of inversion of nitrogen trifluoride(NF<sub>3</sub>) molecule', International Journal of Quantum Chemistry, Uppsala University, sweden, 2002, 0020-7608
- (7) Dulal C Ghosh, Jibanananda Jana and Arindam Chakraborty, 'A quantum chemical study of the physical process of planar( D<sub>3h</sub>) to Pyramidal ( C<sub>3v</sub>) structural reorganization of boron trifluoride molecule', Indian Journal of Chemistry, CSIR-NISCAIR, New Delhi, India, 2002, 0376-4710
- (8) Dulal C Ghosh and Jibanananda Jana, 'Quantum chemical study of the umbrella inversion of the ammonia molecule', International Journal of Quantum Chemistry, Uppsala University, Sweden, 2000, 0020-7608
- (9) Dulal C Ghosh and Jibanananda Jana, 'A Study of the correlation of the order of chemical reactivity of a sequence of binary compounds of nitrogen and oxygen in terms of Frontier orbital theory', Current Science, Indian Institute of Science, Bengaluru, 1999, 0011-3891
- (10) Dulal C Ghosh and Jibanananda Jana, 'Quantum chemical computation on localized orbitals of some simple chemical systems', Journal of Indian Chemical Society, University of Calcutta, West Bengal, India, 1999, 0019-4522



**BOOK PUBLICATION**

: