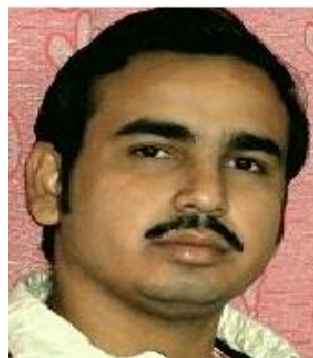


BIO-DATA

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5. **Gender** : M
6. **Category** : General
7. **Blood Group** : O⁺
8. **Academic Qualification (Undergraduate Onwards)**

	Degree	Year	Subject	University/Institution	% age of marks
1.	B.Sc.	2002	Physics	The University of Burdwan	67.6
2.	M.Sc.	2004	Physics	The University of Burdwan	66.6
3.	GATE	2004	Physics	Department of Education, MHRD	89.48 (percentile)
4.	NET	2005	Physics	UGC/CSIR	
5.	Ph.D.	2022	Physics	The University of Burdwan	

9. **Work experience (in chronological order).**

Sl. No	Positions held	Name of the Institute	From	To	Pay Scale (Rs)
1	Assistant Professor (WBES)	Hooghly Mohsin College, Hooghly	03/06/2009 (DOJ in WBES)	03/06/2015	15,600/- -39,100/-
2	Assistant Professor (WBES)	Darjeeling Govt. College, Darjeeling	04/06/2015	12/08/2020	Do
3	Assistant Professor (WBES)	KJR Govt. Gen. Degree College, Mejia	13/08/2020	Till date	68,900/- - 2,05,500/-

10. **Publications** (*List of papers published in UGC Approved Journals, in year wise descending order*).

Sl. No	Author(s)	Title	Name of Journal	Volume	Page	Year
1	G Dey, A Chakrabarty	Computational investigation on the tautomerisation between (Z)-4-(hydroxy(phenyl)methylene) isochroman-1,3-dione and 4-benzoyl-3-hydroxy-1H-isochromen-1-one in S ₀ and S ₁ states.	Russian Journal of General Chemistry (I.F.- 0.9) 1070-3632(ISSN)	Vol. 95/ No.9	2434-2444	2025
2	N Biswas, G Dey, L Das, S. Das, N. Ruidas, A Chakrabarty	Geometry, vibrations and torsional potential of 1-phenyl naphthalene: A combined <i>ab-initio</i> and experimental study	Journal of Molecular Structure (I.F.- 4.0) 222860 (ISSN)	1296/136844	-----	2024
3	G Dey, A Chakrabarty	Study of the conformations and tautomerisation pathway in (Z)-4-(hydroxypropyl) isochroman-1, 3-dione: Analysis through energy, vibrational signatures and hardness profiles	Journal of Molecular Structure (I.F.- 4.0) 222860 (ISSN)	1252/132177	-----	2022
4	A Chakrabarty, G Dey	Conformations and Tautomerisation between (Z)-4-(hydroxyethyl) isochroman-1, 3-dione and 4-acetyl-3-hydroxyisochroman-1-one: A computational study through Energy, electron distribution, Vibrational analysis and Hardness profiles.	Computational & Theoretical Chemistry (I.F.- 3.0) 2210-271X (ISSN)	1206/113486	-----	2021
5	G Dey, A Chakrabarty	Conformational Landscape and Tautomerisation in (Z)-4-(hydroxymethylene) isochroman-1,3-dione: Analysis through Energy and Hardness profiles.	Journal of Molecular Structure (I.F.- 4.0) 222860 (ISSN)	1243/130859	-----	2021
6	G Dey, A Chakrabarty	Tautomers of homophthalic anhydride in the ground and excited electronic states: analysis through energy, hardness and vibrational signatures.	Journal of Molecular Modeling (I.F.- 2.1) 16102940 (ISSN)	26	173 - 184	2020
7	L Das, G Dey, A Chakrabarty	Investigation of the structures, potential energy surface, transition states and vibrational frequencies of a vitamin E precursor-chroman in S ₀ and S ₁ states: DFT based computational study.	Computational & Theoretical Chemistry (I.F.- 3.0) 2210-271X (ISSN)	1049	115-121	2014
8	S Aziz, B Ghosh, G Dey	Broken electroweak phase at high temperature in the littlest Higgs model with T-parity	Physical Review D (I.F.- 4.6) 2470-0029 (ISSN)	79(7)/075001 (10)	1-10	2009

11. Paper presented in International/National/State Level Seminar/ Conference/ Workshop/ Symposium.

Sl. No.	Author(s)	Title	Name of Seminal/Conference/Workshop	Intl./Nat.	Date(s)
1	G Dey, A Chakrabarty	Investigation about the effect of rotation of phenyl ring on proton transfer in (Z)-4-(hydroxy(phenyl)methylene) isochroman-1, 3-dione	International conference on Research in Emerging Advanced Materials and Spectroscopy (ICREAMS - 2024) Katteri, Uthangarai, Tamil Nadu, India	International	21-22 February, 2024
2	G Dey	Intramolecular Proton Transfer In 2-Hydroxy 1- Napthamide in S0 And S1 Mediated By H-Bonding	International Conference on Recent Developments in Research (ICRDR2023) (Medinipur, West Bengal)	International	28 June, 2023
3	G Dey, A Chakrabarty	Investigation about the effect of rotation of phenyl ring on proton transfer in (Z)-4-(hydroxy(phenyl)methylene) isochroman-1, 3-dione	International Conference On Nonlinear Dynamics and its Applications in Physical and Biological Sciences (NDAPBS-23) (Durgapur, West Bengal)	International	16-18 March, 2023
4	G Dey	Tautomerism in isochroman-1, 3-dione and its derivatives	International Conference on "Recent Trends in Physics and Allied Sciences" (RTPAS-23) (Asansol, West Bengal)	International	15-16 March, 2023
5	G Dey	Tautomerisation in some organic molecules	National Conference on Material Science, Nanomaterials and its applications in Biological Science (MSNBS 2023) (Durgapur, West Bengal)	National	March 1, 2023
6	G Dey, A Chakrabarty	Keto-Enol Tautomerisation in 4-acylisochroman-1,3-diones	National Seminar on Recent Trends in Condensed Matter Physics including Laser Applications (NSCMPLA 2020) (Burdwan, West Bengal)	National	February 13-14, 2020
7	G Dey, A Chakrabarty,	Exploration of Intramolecular H-bonding and Proton Transfer in 2-hydroxy 1-napthamide	National Seminar on Recent Trends in Condensed Matter Physics including Laser Applications (NSCMPLA 2019) (Burdwan, West Bengal)	National	January 16-18, 2019.
8	G Dey, A Chakrabarty	Investigation of potential energy curve, transition state and tautomeric structures in acylisochroman 1,3-dione	National Seminar on Recent Trends in Condensed Matter Physics including Laser Applications (NSCMPLA 2017) (Burdwan, West Bengal)	National	March 8-9, 2017.
9	G Dey, A Chakrabarty	Identification of transition state and tautomeric structures in isochroman -1,3-dione in S0 state.	National Thematic Workshop on Recent Advances in Material Sciences-2016 (Burdwan, West Bengal)	National	March 8-9, 2016.
10	G Dey, A Chakrabarty	Tautomeric Equilibrium in isochroman-1,3-dione	National Seminar on Condensed Matter, Laser and Communication (NSCMLC 2015) (Burdwan, West Bengal)	National	February 27-28, 2015.

11	G Dey , A Chakrabarty	Theoretical Investigation of structure and Potential Energy Surface of chroman	Third National Seminar on <i>Recent trends in Condensed Matter Physics including Laser Application (TNSCMPLA 2013)</i> (Burdwan, West Bengal)	National	March 5-7, 2013 .
12	S Aziz, B Ghosh, G Dey	Electroweak phase transition in finite temperature littlest Higgs model with T-parity	DAE-BRNS symposium on HEP, 2008 (BHU, Uttar Pradesh)	International	December 14-18. 2008
13	I Ray, M R Bose, G Dey , R Kshetri et al.	Study of high-spin states in ^{30}P using heavy ion reaction	DAE-BRNS 50 th symposium on Nuclear Physics, 2005 (TIFR, Mumbai)	International	December 12-16. 2005

12. [Book Chapter/Full paper in seminar/conference proceedings](#)

Sl. No.	Author(s)	Title	Name of Book	ISBN	Page No. and Year
1	G Dey	Tautomerism in isochroman-1, 3-dione and its derivatives	PROCEEDINGS OF INTERNATIONAL CONFERENCE ON “Recent Trends in Physics and Allied Sciences”	978-93-89817-84-3	51-56 2023
2	G Dey , A Chakrabarty	Investigation of potential energy curve, transition state and tautomeric structures in acylisochroman-1,3-dione	Advances in Laser Applications and Condensed Matter Physics (Ed. A. Chakraborty, A. Choudhuri)	978-81-936036-9-7	12-14 2017