

Staff Details

Title	DR.	First Name	BISHNU PRASAD	Last Name	KAR	Photograph
Designation	Lecturer					
Department	Chemistry					
Phone Number (Office)	7536940069					
Email	bishnuorg19848@gmail.com					
Educational Qualifications						
Subject	Institution		Year	Details		
Ph.D.	Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu A Constituent Institute of Homi Bhabha National Institute, Mumbai		2013	Thesis title – “Conformations of molecules containing π systems: Matrix isolation infrared and <i>ab initio</i> studies”		
PG	Ravenshaw Autonomous College, Cuttack, Odisha Affiliated to Utkal University, Bani Bihar, Bhubaneswar		2006	M.Sc. in Chemistry		
UG	Banki College, Banki, Cuttack Affiliated to Utkal University, Bani Bihar, Bhubaneswar		2004	Chemistry as Honours subject		
Professional Experiences						
Organisation/ Institution		Designation	Duration	Role		
<i>Indian Institute of Science Education and Research, Mohali, Punjab, India</i>		Postdoctoral Fellow	December 2012 – May 2013	Setting up of Matrix Isolation IR spectroscopy facility and study the Hydrogen-bonding interactions of formic acid with different molecules		
<i>Ruhr-Universität-Bochum, Bochum, Germany</i>		Postdoctoral Fellow	June 2013 – January 2015	Study the structural properties of different ionic liquids.		

Government Science College Chatrapur, Odisha, India	Lecturer in Chemistry	February 2015 - continuing	Teaching to UG and PG students and research
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Teaching Experience (Subjects/Courses Taught)
Physical Chemistry for UG and PG students.
Honors & Awards
<ol style="list-style-type: none"> 1. Junior Research Fellowship of Department of Atomic Energy 2. Senior Research Fellowship of Department of Atomic Energy
Publications
<ol style="list-style-type: none"> 1. Hydrogen Bonded Complexes of Acetylene and Boric Acid: A Matrix Isolation Infrared and <i>ab initio</i> Study, K. Sundararajan, N. Ramanathan, <u>Bishnu Prasad Kar</u>, K.S. Viswanathan, <i>Journal of Molecular Structure</i>, 2011, 991, 35-41. 2. Matrix Isolation FTIR Studies of Non-Planar Trans-Stilbene, <u>Bishnu Prasad Kar</u>, N. Ramanathan, K. Sundararajan, K. S. Viswanathan, <i>Journal of Molecular Structure</i>, 2011, 994, 364-370. 3. Conformations of Trimethyl Phosphite: A Matrix Isolation Infrared and <i>ab initio</i> Study, N. Ramanathan, K. Sundararajan, <u>Bishnu Prasad Kar</u>, and K. S. Viswanathan, <i>Journal of Physical Chemistry A</i>, 2011, 115, 10059–10068. 4. Conformations of Dimethyl Carbonate and its Complexes with Water: A Matrix Isolation Infrared and <i>ab initio</i> Study, <u>Bishnu Prasad Kar</u>, N. Ramanathan, K. Sundararajan, K. S. Viswanathan, <i>Journal of Molecular Structure</i>, 2012, 1024, 84-93. 5. A Matrix Isolation Infrared and <i>ab initio</i> study of the Trimethylphosphite-Hydrogen Chloride Interaction: Hydrogen bonding versus nucleophilic substitution, N. Ramanathan, <u>Bishnu Prasad Kar</u>, K. Sundararajan, K. S. Viswanathan, <i>Journal of Physical Chemistry A</i>, 2012, 116, 12014–12023. 6. Matrix Isolation and DFT study of the Conformations of Diethylcarbonate, <u>Bishnu Prasad Kar</u>, N. Ramanathan, K. Sundararajan, K. S. Viswanathan, <i>Journal of Molecular Structure</i>, 2014, 1072, 61-68. 7. Understanding the Ionic Liquid [NC₄₁₁₁][NTf₂] from Individual Building Blocks: An IR-Spectroscopic Study, Kenny Hanke, Matin Kaufmann, Gerhard Schwaab, Martina Havenith, Conrad T. Wolke, Olga Gorlova, Mark A. Johnson, <u>Bishnu Prasad Kar</u>, Wolfram Sander, Elsa Sanchez-Garcia, <i>Physical Chemistry Chemical Physics</i>, 2015, 17, 8518-8529. 8. Reversible Carbene Formation in the Ionic Liquid 1-Ethyl-3-Methylimidazolium Acetate by Vaporization and Condensation, <u>Bishnu Prasad Kar</u>, Wolfram Sander, <i>ChemPhysChem</i>, 2015, 16, 3603 – 3606. 9. Multiple Hydrogen Bond Tethers for Grazing Formic Acid in Its Complexes with Phenylacetylene, Ginny Karir, Gaurav Kumar, <u>Bishnu Prasad Kar</u>, K. S. Viswanathan, <i>Journal of Physical Chemistry A</i>, 2018, 122, 2046 - 2059. 10. Click mediated synthesis of functionalized glycolipids with peptide-peptoid linkages, Anadi Singhamahapatra, Chinmayee Pattnaik, <u>Bishnu Prasad Kar</u>, Ganesh Chandra Nayak, Laxmi Narayan Sahoo, Satyanarayan Sahoo, <i>Journal of the Serbian Chemical Society</i>, 2023, 88, 715-727.
Public Service / University Service / College Service /Consulting Activity/College Committee members
NA

Professional Societies Memberships

Life membership of Odisha Chemical Society
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Projects (Major Grants/Collaborations)
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NA

Other Details if any

NA
