

DEPARTMENT OF CHEMISTRY

(A Brief Profile updated on 10th May, 2010)

Year of Establishment	: 1976
Name of the HOD	: PROF. B. DINDA
Sanctioned Faculty Post	: 10
Present Faculty Members	: 07
No. of Non-Teaching Staff	:08

COURSE OFFERED

Post Graduate Degree	: M. Sc
Research Degree	: Ph. D

Students Intake Capacity	: 30
Enrolled Students	
2 nd Semester	: 24
4 th Semester	: 22

No. of Ph.D. Scholars at Present : 13

No. of Ph.D. Awarded (from the date of inception) : 30

Major Thrust Area of Research

- i. Natural Products Chemistry
- ii. Synthetic & Structural Inorganic Chemistry
- iii. Computational Quantum Chemistry
- iv. Studies on Surface Chemistry
- v. Synthetic Organic Chemistry



Facilities Available

FT-IR, UV-VIS, GC, Fluoremeter, Computer lab.

List of Faculty

Faculty	Personal Details	Research Interests
	<p>Name: Prof. B. Dinda Qualification: M.Sc. Ph.D Specialization: Organic Chemistry Designation: Professor Contact: +91-9436502137 E.mail: dindabtu@rediffmail.com dindabtu@gmail.com</p>	<p>Phytochemical Investigation of Bioactive Principles of Medicinal Plants – their Isolation, Characterization and study of Biological Activity</p>
<p>Prof. B. Dinda has joined in the Department of Chemistry, CUPG center, Agartala, on May, 1981 as lecturer and became reader in the year 1986 and Professor in Tripura University in the year 1993. He obtained his M.Sc. and Ph.D. from Calcutta University in 1969 and 1974, respectively. He has worked with Prof. J.L. Beal at College of Pharmacy, Ohio State University, USA from 1976 to 1978 as Post Doctoral fellow on a fellowship of NIH. Before joining to the CUPG center at Agartala he worked as Lecturer in Chemistry at B.N. Mahavidyalaya, Itachuna, Hoogly, West Bengal. He has produced 12 Ph.D. students and acted as Ph.D. thesis Examiner of some Indian Universities. He has published more than 80 papers in different reputed National and International Journals. He has research collaboration with Kitasato University, Japan; Ottawa Hospital Research Institute, Ottawa, Canada, and Salerno University, Italy, as well as with some Indian groups. He has been recognized as resource person of refresher course in Chemistry at NEHU, Shillong, Gauhati University, Gwahati. He acted as referee of Ind. J. Chem. Sect. B., Journal of Brazillian Chem. Soc., African J. of Chem., Central European J. of Biology. He is acting as Associate Editor of Journal of Ind. Chem. Soc. since 2004. He has delivered lectures as invited speaker in different National and International Symposium in different Institutes of India.</p>		
	<p>Name: Prof. M.K. Singh Qualification: M.Sc. Ph.D Specialization: Inorganic Chemistry Designation: Professor Contact: +91-9436453970 +91-381-251-5361 (R) E.mail: maheshkumar_singh@rediffmail.com</p>	<p>Synthetic Inorganic Chemistry: Synthesis and structural Characterization of Metal Complexes derived from nitrogen and sulphur donors</p>
<p>Prof. M.K. Singh has joined the Tripura University on 16th March 1989 as a lecturer in Inorganic Chemistry. He has become Reader in Chemistry in July 1998 and subsequently Professor of Inorganic Chemistry in July 2006. He did his M.Sc. and Ph.D. from Banaras Hindu University in 1979 and 1984 respectively. He has also obtained P.G. Diploma in spectroscopy from the Dept. of Physics, BHU. He has successfully guided five research students leading to their Ph.D. degree in Inorganic Chemistry and published about 25 research papers in different referred national and international journals. He is purely synthetic Inorganic Chemist. Other than his normal academic activities he is also engaged in confidential works of other Indian educational institutions along with UPSC. He is also one of Associate Editors of Journal of Indian Chemical Society for Inorganic Chemistry section. In addition he has also extracurricular activities such as participation in science</p>		

exhibitions, NSS, popularization of chemistry in Tripura through Tripura Chemical Society. He also looks after the functions of Placement Officer in Placement Assistance Cell and Deputy Director, Directorate of Professional studies, Tripura University in addition to his normal duties.

	<p>Name: Prof. D. Sinha Qualification: M.Sc. Ph.D Specialization: Physical Chemistry Designation: Professor Contact: +91-381-237-2536(R) E.mail: dhiman_sinha@rediffmail.com</p>	<p>Implementation of Valence Universal Multi-reference Coupled-Cluster Theory via Eigen value Independent Partitioning Technique (EIP-VUMRCC) to compute Ionization Energies related to Photo-electron Spectroscopy using full connected triple excitation CC operators along with single and double excitation CC operators</p>
<p>Professor D. Sinha had joined the Department of Chemistry, Tripura University as a Lecturer in August 1990. He became Reader in 1999 and Professor in 2008. For a period from November 2001 to February 2004, he worked as a faculty (Reader) in University of Calcutta. Before joining Tripura University in 1990, he worked as a lecturer in Dinabandhu Andrews College, Garia, Kolkata from April, 1986 to September 1988 and later on, as an Asstt Professor in R.K. Mahavidyalay (a Govt Degree College), Kailasahar, Tripura from September 1988 to August 1990. He had obtained M.Sc. degree in Chemistry (Physical Chemistry Specialization) from University of Calcutta in 1976. In 1983, he started Ph.D. work in Molecular Quantum Mechanics under the supervision of Professor Debashis Mukherjee of The Indian Association for the Cultivation of Science (IACS), Kolkata, INDIA, and obtained the degree from Jadavpur University, Kolkata, in 1989. He has 14 publications - 13 in reputed International Journals like Chem. Phys. Letts., J. Phys. Chem. and J. Chem. Phys., and 1 in a reputed National Journal. He delivered talks and was participant in some International and National Symposia, Conferences and Seminars.</p>		
	<p>Name: Dr. R.K. Nath Qualification: M.Sc. Ph.D Specialization: Physical Chemistry Designation: Reader Contact: +91-9436508446 E.mail: rknath1959@gmail.com, rknath1959@yahoo.com</p>	<p>Preparation and Characterization of Thin Films (Molecular level), Langmuir-Blodgett Films, Layer-by-Layer Self Assembled Films, Biomolecules, Organic and polymeric Materials in thin films and at air-water interface, study on the physico-chemical properties of bacterial and natural polymers</p>

Dr. R. K. Nath has joined in the Department of Chemistry, Tripura University on 20th February 1995. He obtained his M.Sc. and Ph.D. from Calcutta University in 1980 and 1988 respectively. He has worked with Prof. A. K. Chakraborty as Research Associate from 1988 to 1995.



Name: Dr. R.N. DuttaPurkayastha
Qualification: M.Sc. Ph.D
Specialization: Inorganic Chemistry
Designation: Reader
Contact: +91-9863054918
E.mail: rndp09@gmail.com

**Synthetic and Structural
Inorganic Chemistry**

Dr. R.N. DuttaPurkayastha has joined the department as Reader on 1st march, 2006. Before joining this department he was working as a selection grade lecturer in an undergraduate college affiliated to North-Eastern Hill University in Shillong. He has obtained his M.Sc and Ph.D degree from North-Eastern Hill University, Shillong in the year 1982 and 1987 respectively. His field of research interest is Synthesis, Structure and Reactivity of First row transition metal complexes.



Name: Dr. S. Majumder
Qualification: M.Sc. Ph.D
Specialization: Organic Chemistry
Designation: Reader
Contact:
E.mail: swamajumder@hotmail.com

**Asymmetric synthesis of
amino acids; synthetic
methodology; chiral ligands;
enediyne based surfactants**

Dr. S. Majumdar has joined in the Department of Chemistry, Tripura University on 22nd July 2004. He obtained his M.Sc. from Tripura University and Ph. D. from Jadavpur University. Before joining in Tripura University, he has worked with Prof. Ilan Marek, Technion Israel Institute of Technology, Haifa, Isarel as Post-Doctoral fellow and Prof. Takeo Kawabata, Institute for Chemical Research, Kyoto University, Kyoto, Japan as Japan Society for the Promotion of Science (JSPS) fellow. Recently, he also visited Dr. Basak's laboratory at Ottawa Hospital Research Institute, Ottawa, Canada as Canadian Institute of Health Research (CIHR) CANADA-HOPE fellow.



Name: Dr. U.C. De
Qualification: M.Sc. Ph.D
Specialization: Organic Chemistry
Designation: Lecturer
Contact: +91-9436470925
**E.mail: ucd1972@rediffmail.com
ucd1972@gmail.com**

**Phytochemical Investigation
of Bioactive Principles of
Medicinal Plants – their
Isolation, Characterization
and Study of Biological
Activity**

Dr. U.C. De has joined in the Department of Chemistry, Tripura University on 30th January 2009. He obtained his M.Sc. and Ph. D from Tripura University in 1997 and 2005 respectively. Before joining in

Tripura University, he has worked as Asstt. Professor at N.S.Mahavidyalaya under Higher Education Department, Govt. Of Tripura from April, 2002 to 29th January, 2009.



Name: Dr. S. Chowdhury
Qualification: M.Sc. Ph.D
Specialization: Inorganic Chemistry
Designation: Lecturer
Contact: +91-9612903540
E.mail: shubha103@yahoo.com

Synthesis of novel 1st transition metal coordination compounds, *oxo*-Rhenium(V) complexes and studies of their structure, reactivity and redox properties.

Dr. S.Chowdhury has joined in the Department of Chemistry, Tripura University on 8th February, 2010. He obtained his M.Sc. from University of North Bengal, Darjeeling, on 1996 and Ph. D from Indian Association for the Cultivation of Science, Kolkata, 2003. Before joining in Tripura University, he has worked as Postdoctoral research associate with Professor Gérard F. Lanneau under Laboratoire de Chimie Moleculaire et Organisation du Solide, University of Montpellier2, Montpellier France, (November 2003 - August 2004) Postdoctoral research associate with Professor Y. Ikeda under the Department of Research Laboratory for Nuclear Reactors in Tokyo Institute of Technology, Tokyo, Japan, (September 2004 – September 2006).

On Going Research Projects (apart from unassigned grant)

Principal Investigator	Title of the project	Funding Agency	Amount Sanctioned	No of research students engaged	Total Grant
Prof. B.Dinda	1. Bioactive constituents of <i>Parkia javanica</i> & <i>Evolvulus nummularius</i> and related plants of Tripura. 2. Anticancer and antidiabetic principles from some medicinal plants of Tripura.	UGC, New Delhi	Rs. 6,39,600/-	01	Rs. 6,39,600/-
		DST, New Delhi	Rs. 17,00,000/-	01	--
Dr. R.K. Nath (Co-PI) PI: Dr. D. Bhattacharjee, Dept. of Physics,	Photophysical investigation of stable Langmuir Blodgett films of organic, polymeric and water soluble materials.	CSIR, New Delhi	Rs. 7,50,000/-	Nil	Rs. 7,50,000/-
Dr. R.K. Nath	Spectroscopic studies of stable Langmuir-Blodgett	CSIR, New Delhi	Rs. 9,50,000/-	Nil	Rs. 9,50,000/-

	and layer-by-layer self assembled film of organic, polymeric and water soluble materials.				
Dr. R.N. Dutta Purkayastha	Synthesis, structural assessment and reactivity studies of some Schiff base and mixed ligand complexes of Mn(II)	UGC, New Delhi	Rs. 3,45,800/-	Nil	Rs. 5,44,800/-
Dr. S. Majumdar	Mammalian Subtilases in Viral Infections: Design, Synthesis and Biochemical Applications of Inhibitors.	CIHR, Canada	CAD20,000.00 (approx. Rs. 8.8 lacs)	Nil	CAD20,000.00 (approx. Rs. 8.8 lacs)
Dr. U.C. De	Phytochemical Investigation and Biological Activity study of Some Medicinal Plants of Tripura	CSIR, New Delhi	Sanctioned	Nil	--

List of publications (From January, 2006 to date)

Prof. B. Dinda	<p>1. Antimicrobial C-glucoside from aerial parts of <i>Diospyros nigra</i>, B. Dinda, A. Bhattacharya, U. C. De, S. Arima, N. Sato & Y. Harigaya. <i>Chem. Pharm. Bull.</i>, 54, 679-681, 2006.</p> <p>2. Iridoid glucosides from <i>Wendlandia tinctoria</i>, B. Dinda, S. Debnath, S. Arima, N. Sato & Y. Harigaya. <i>Chem. Pharm. Bull.</i> 54, 1030-1033, 2006.</p> <p>3. Differential induction of <i>Leishmania donovani</i> bi-sub unit topoisomerase 1-DNA cleavage complex by selected flavones and camptothecin: activity of flavones against camptothecin-resistant topoisomerase 1. B. B. Das, N. Sen, A. Roy, S. B. Dasgupta, A. Ganguly, B. C. Mohanta, B. Dinda & H. K. Majumder. <i>Nucleic Acids Res.</i>, 34, 1121-1132, 2006.</p> <p>4. Phytochemical Investigation of <i>Gomphrena globosa</i> II. B. Dinda, B. Ghosh,</p>
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- S. Arima, N. Sato & Y. Harigaya. *Nat. Prod. Sci.*, **12**, 89-93, 2006.
5. A new bis-iridoid glucoside from *Mussaenda incana*. **B. Dinda**, S. Debnath, S. Majumder, S. Arima, N. Sato & Y. Harigaya. *Chin. Chem. Lett.*, **17**, 1331-1334, 2006.
6. Steroids and terpenoid from *Mimosa pudica* roots. **B. Dinda**, B. Ghosh, S. Arima, N. Sato & Y. Harigaya. *J. Indian Chem. Soc.*, **83**, 1044-1046, 2006.
7. Chemical constituents of *Evolvulus nummularius*. **B. Dinda**, B. Ghosh, S. Arima, N. Sato & Y. Harigaya, *Indian J. Chem.*, **46B**, 492-498, 2007.
8. Antibacterial activity of *Parkia Javanica*, an indigenous medicinal plant of Tripura. R. Saha, S. K. Sil, B. C. Mohanta & **B. Dinda**. *J. Ecotoxicol.*, **17**, 15-19, 2007.
9. Naturally occurring iridoids, A Review, Part-I. **B. Dinda**, S. Debnath & Y. Harigaya, *Chem Pharm. Bull.*, **55**, 159-222, 2007.
10. Antibacterial activity of *Evolvulus nummularius*, *Mimosa pudica* and *Oroxylum indicum*, S. K. Sil, R. Saha, B. Ghosh, B. C. Mohanta & **B. Dinda**. *African J. Biomed. Res.* **10**, 83-88, 2007.
11. Naturally occurring seco-iridoids and bioactivity of naturally occurring iridoids and seco-iridoids, A Review, Part-II. **B. Dinda**, S. Debnath & Y. Harigaya. *Chem. Pharm. Bull.*, **55**, 689-728, 2007.
12. Flavonoids from the Stem-bark of *Oroxylum indicum*. **B. Dinda**, B. C. Mohanta, S. Arima, N. Sato & Y. Harigaya, *Nat. Prod. Sci.*, **13**, 190-194, 2007
13. The Cascade-independent algorithm of programmed cell Death in Leishmania induced by baicalein: the role of Ld Endo G, Ld FEN-1 and Ld TatD as a DNA 'degradesome' S. Bose Dasgupta, B.B. Das, S. Sengupta, A. Ganguly, A. Roy, S. D. G. Tripathi, **B. Dinda** and H.K. Majumder. *Cell Death and Differentiation*, **13**, 1-12, (2008)
14. Iridoid glucoside and sterol galactoside from *Mussaenda macrophylla*. **B. Dinda**, S. Majumder, S. Arima, N. Sato and Y. Harigaya. *J. Nat. Med.*, **62**, 447-45, 2008
15. Naturally occurring Triterpenoid saponins, A review. **B. Dinda**, S. Debnath, B. Mohanta & Y. Harigaya. *Chemistry and Biodiversity*, 2009 (In press)
16. Iridoid glucosides from leaves and stem barks of *Parkia javanica* **B. Dinda**; B. C. Mohanta; S. Debnath; B. Ghosh; S. Arima; N. Sato; Y. Harigaya. *J. Asian Nat. Prod.* 2009 (In press)

	<p>17. Naturally occurring iridoids, seloiridoids and their bioactivity, an updated review. B. Dinda <i>Chem. Pharm. Bull.</i>, 2009, 57, 765-791.</p> <p>18. Iridoid glucosides from <i>Parkia javanica</i> leaves and stem bark. B.Dinda. <i>J. Asian. Nat. Prod. Res</i>, 2009, 11, 229-235.</p> <p>19. Iridoid glucoside and sterol galactoside from <i>Mussaenda macrophylla</i>. B. Dinda, <i>J. Nat. Med</i>, 2008, 62, 447 – 451.</p>
<p>Prof. M.K. Singh</p>	<p>1. Synthesis and crystal structure of $[Mn_2(H_2Sal)_2(H_2O)_4]$: First Example of Radioactive Synthesis of Binuclear Manganese (I) Salicylate Complex. R.A.Lal, A.Lemtur, S.Choudhury, M. Chakrabarty, D.Bsumatary, M.K.Singh, S. Bhaumik, A.K.De and A.Kumar. <i>Trans Metal Chemistry</i>, 31, 423-428, 2006.</p> <p>2. Synthesis, characterization and crystal structure of Manganese (IV) complex derived from Salicylic acid. R.A.Lal, S. Bhaumik, A.Lemtur, M.K.Singh, D.Bsumatary, S.Choudhury, M. Chakrabarty, A.K.De and A.Kumar. <i>Inorganica Chimica Acta.</i>, 359, 3015-3110, 2006.</p> <p>3. Synthesis and characterization of manganese (IV) complexes with Tris(hydroxymethyl)-N-(2-oxo-1-naphthylideneamino)methane Schiff base. M.K.Singh, S.Bhaumik and R.A.Lal. <i>J.Indian Chem.Soc.</i>, 83, 1080-1086, 2006.</p> <p>4. Synthesis and characterization of Tris[N-(2-oxo-1-naphthylidene)glycinato]-manganese(III) and its reaction products with oxygen, nitrogen and/sulphur donors. M.K.Singh, S. Bhaumik and R.A. Lal. <i>J. Indian Chem. Soc.</i>, 84, 2007, 418-426</p> <p>5. Synthesis and Structural characterization of mixed ligand complexes of nickel(II) with 1-cyano-1-carboethoxyethylene-2,2-dithiolate and some nitrogen donors. M. K. Singh, Arijit Das and Bijaya Paul. <i>Transition Metal Chemistry</i>, 32(6), 2007, 732-736</p> <p>6. Synthesis and characterization of mixed ligand complexes of zinc and cadmium ions with some nitrogen and sulphur donors. M.K.Singh, A.Das, R. Laskar & B. Paul. <i>J. Indian Chem. Soc.</i>, 85(2008), 485-490.</p> <p>7. Synthesis and characterization of manganese(IV) and ruthenium(III) complex derived from bis(2-hydroxy-1-naphthaldehyde)oxaloyldihydrazone. M.K. Singh, Kar and R.A. Lal. <i>J. Coord. Chem.</i>, 61 (19), (2008), 3158-3171.</p> <p>8. Synthesis and characterization of manganese(III,IV) and ruthenium(III) complex from 2-hydroxy-1-naphthaldehydebenzoylhydrazone M.K. Singh, N.K. K</p>

	<p>R.A. Lal <i>J. Coord. Chem.</i>, 62 (10), (2009),1167-1689.</p> <p>9. Synthesis and characterization of mixed ligand complexes of zinc and cadmium with some nitrogen and sulphur donors. M.K. Singh, A.Das, R. Laskar and B. P <i>Indian Chem. Soc.</i>, 86 (2009) 143-148..</p>
Prof. D. Sinha	<p>1. Explicitly intruder-free valence-universal multireference coupled cluster theory as applied to ionization spectroscopy. S.Chattopadhyay, A. Mitra and D.Sinha. <i>J. Chem. Phys.</i>, 125, 244111 (1-17), 2006.</p> <p>2..Effect of three body transformed Hamiltonian (\hat{H}_3) through full connected triples on main and satellite ionization potentials computed via valence universal EIP-MRCC method. K. Adhikari, S. Chattopadhyay, R. . Nath, B. K. De, D. Sinha <i>Chemical Physics Letters</i>, 474 (2009) 199–206.</p>
Dr. R.K. Nath	<p>1.A comparative study on the physico-chemical properties of bacterial capsular polysaccharides from different serotypes of <i>Klebsiella</i>. <i>J.Photochemistry & Photobiology A</i>, (Elsevier Science) 178 98-105, 2006</p> <p>2. Formation of complex films with water-soluble (CTAB) molecules, S. Biswas, S.A. Hussain, S Deb, R.K.Nath and D. Bhattacharjee, <i>SpectroChemica Acta Part A</i> (Elsevier Science), 65, 628-632, 2006.</p> <p>3. Formantion of complex Langmuir and Langmuir-Blodgett films of water soluble rosebengal. S. Biswas, R.K.Nath, D Bhattacharjee and S.A. Hussain <i>J. Colloids and Interface Science</i> (Elsevier Science), 311,361-367, 2007.</p> <p>4. Spectral Studies on the Interaction of Cationic Dye/Surfactants with <i>Klebsiella</i> K 28 Capsular Polysaccharide S.Dasgupta, R.K.Nath, S. Biswas, J.Hossain , A. Mitra and A.K. Panda, <i>J. Colloid and Surface A: physicochem. Eng. Aspect</i> (Elsevier Science) 302,17-23,2007.</p> <p>5. Preparation and characterization of an anionic dye-polycation molecular films by electrostatic layer-by-layer adsorption process.D. Dey, S.A.Hussain, R.K.Nath and D Bhattacharjee. <i>Spectro Chemica Acta A</i>,70, 307-312 , 2008</p> <p>6. Studies on the Interaction of <i>Klebsiella</i> K34 Capsular Polysaccharide with Oppositely Charged dyes and Surfactants. Th. C. Singh, S. Biswas, S. Dasgupta, A. Mitra, A. K. Panda and R.K. Nath <i>J. Surface Sci. Technol.</i>, 24(1-2),21-38, 2008</p> <p>7. Interactions of bacterial polysaccharides with cationic dyes: Physicochemical studies S. Dasgupta, R.K. Nath, S. Biswas, A.Mitra and A.K.Panda <i>Indian Journal of Biochemistry & Biophysics</i>, 45,2008 (In press)</p> <p>8. Effect of three body transformed Hamiltonian (\hat{H}_3) through full connected triples on main and satellite ionization potentials computed via valence universal EIP-MRCC method. K. Adhikari, S. Chattopadhyay, R. . Nath, B. K. De, D. Si ha <i>Chemical Physics Letters</i>, 474 (2009) 199–206.</p> <p>9. Physico-chemical studies on the interaction of bacterial polysaccharides with cationic dye. S. Das Gupta, S. Biswas, A.Mitra, R.K.Nath, A.K.Panda <i>Indian J.</i></p>

	<p><i>Biochemistry and Biophysics</i>, 46 (2009), 192-197.</p> <p>10. Studies on the binding behaviour of bacterial polysaccharide with cationic dyes and surfactants. R.K.Nath, S.Dasgupta, S.Ghosh, A.Mitra and .K.Panda <i>Journal of Dispersion Science and Technology</i>, (2009) Accepted for publication</p>
Dr. R.N.DuttaPurkayastha	<p>1. Synthesis, spectral characterization and reactivity study of new Schiff base complexes of – divalent Manganese, Copper and Zinc. <i>J. Ind. Chem. Soc.</i>, 86, 76, 2009. A.K.De, D.Deb, K.R.Nath Bhowmik and R.N.Datta Purkayastha.</p> <p>2. “Structure of aqua bis (2,2' bipyridyl-N,N') (bithiosulfato-O) manganese(I) monohydrate”, Private Communication to Cambridge Structural database (1078), 2010, CCDC deposition no. 762813. Subhadip Roy, Pranajit Paul, Dipankar Dey, R. N. Dutta Purkayastha*, K. R. Nath Bhowmik, Louise Male</p> <p>3. “Structure of bis(2-chlorobenzoato-kO) bis(1,10-phenanthroline-k²N,N') manganese(II) heptahydrate”, Private Communication to Cambridge Structural database (1078), 2010, CCDC deposition no. 770233. Subhadip Roy, Pranajit Paul, Dipankar Dey, R. N. Dutta Purkayastha*, K. R. Nath Bhowmik, Louise Male.</p>
Dr. S. Majumder	<ol style="list-style-type: none"> Hydrogel cell patterning incorporating photocaged RGDS peptides. Goubku, C; Majumdar, S.; Basak, A.; Cao, X. <i>Biomedical Microdevice</i> 2010, <i>12</i>, 555. Protein Convertase Inhibitory Activities of Flavonoids Isolated from <i>Oroxylum indicum</i>. Majumdar, S.; Mohanta, B. C.; Roy Chowdhury, D.; Banik, R.; Dinda, B.; Basak, A. <i>Curr. Med. Chem.</i>, 2010, xxx, xxx (in press). Novel Axially Chiral Binaphthyl Surrogates with an inner N-H-N Hydrogen bond. Kawabata, T.; Jiang, C.; Hayashi, K.; Tsubaki, K.; Yoshimura, T.; Majumdar, S.; Sasamori, T and Tokohito, N. <i>J. Am. Chem. Soc.</i>, 2009, <i>131</i> (1), 54-55. Synthesis of Chiral 1, 2-Dihydropyridines and 2, 3, 4-Trisubstituted Pyridines from α-Amino Acids. Monguchi, D., Majumdar, S., Kawabata, T. <i>Heterocycles</i> 2006, <i>68</i>, 2571-2578.
Dr. U.C. De	<p>Antimicrobial C-glucoside from aerial parts of <i>Diospyros nigra</i>, B. Dinda, A. Bhattacharya, U. C. De, S. Arima, N. Sato & Y. Harigaya. <i>Chem. Pharm. Bull.</i>, 54, 679-681, 2006.</p>
Dr. S. Chowdhury	<ol style="list-style-type: none"> Structural characterization, electrochemistry, and spectroelectrochemistry of <i>trans</i>-dioxorhenium(V) complex with 4-methoxypyridine, [ReO₂(4-MeOpy)₄]PF₆, and characterization of [ReO₂(4-MeOpy)₄]²⁺ generated electrochemically A. Canlier, T. Kawasaki, Shubhamoy Chowdhury, Y. Ikeda <i>Inorg. Chim. Acta</i>, 363 (2010) 001-007

2. Molecular structure of oxorhenium(V) '3+1' mixed ligand complex with an amino-triazole-thiolate J. P. Naskar, **Shubhamoy Chowdhury** *Indian Chem. Soc* 86 (2009) 1033-1037.
3. A planar Dipyriddyllummonium salt: Synthesis and structure **Shubhamoy Chowdhury**, S. Gou, P. Chakraborty and J. P. Naskar *J. Indian Chem. Soc* 85 (2008) 813-817.
4. Molecular structures and redox properties of oxorhenium(V) '3+1' mixed ligand complexes with heterocyclic thiolates containing nitrogen **Shubhamoy Chowdhury**, M. Nogami, A. Canlier, N. Koshino, Y. Ikeda *Inorg. Chim. Acta*, 361 (2008) 1524-1529.
5. Novel oxorhenium(V) '3+1' mixed ligand complexes with 3-thiapentane-1,5-dithiolate and functional mercaptobenzoyl amino acid ethyl ester **Shubhamoy Chowdhury**, A Canlier, N. Koshino, Y. Ikeda *Inorg. Chim. Acta*, 361 (2008) 145-152.
6. A Hexadecanuclear Copper(I)-Copper(II) Mixed-Valence Compound. Structure, Magnetic Properties, Intervalence Charge Transfer, EPR and NMR S. De, **Shubhamoy Chowdhury**, J. P. Naskar, M. G. B. Drew, R. Clérac, D. Datta *Eur. J. Inorg. Chem.*, (2007) 3695-3700.
7. A monoaqua zinc complex. Unique acid dissociation behavior M. G. B. Drew, D. Parui, S. De, **Shubhamoy Chowdhury**, D. Datta *New J. Chem.* 31 (2007) 1763-1768.
8. Molecular and supramolecular structures of benzil dihydrazone, an organic helical molecule. Comparison with diacetyl dihydrazone S. De, **Shubhamoy Chowdhury**, D. A. Tocher, D. Datta *CrystEngComm*, 8 (2006) 670-673. (Selected under Hot Articles)
9. Molecular structure and linkage isomerization of isothiocyanato(3-thiapentane-1,5-dithiolato)oxorhenium(V) complex **Shubhamoy Chowdhury**, N.Koshino, A. Canlier, K. Mizuoka, Y. Ikeda *Inorg. Chim. Acta*, 359 (2006) 2472-2478.