

CURRICULUM VITAE

Professor (Dr.) Debasis Das

Professor in Chemistry,
University of Calcutta,
92, A. P. C. Road, Kolkata-700009, India.

E-mail: dasdebasis2001@yahoo.com

Mobile No: 9830345023

Date of birth: October 24, 1967

Address: 318, Purbalok, Kalikapur, "Joysri Mansion", Flat-2A, Block-B Kolkata-700099, India



Academic Records

Ph. D. (Science) 1996	The Indian Association for the Cultivation of Science, Kolkata, Jadavpur University Dissertation: Synthesis and characterization of nickel(II) diamine complexes and their thermal studies in the solid phase. Advisor : Professor Nirmalendu Ray Chaudhuri
M. Sc.(Chemistry) 1990	University of Calcutta (Presidency College), Specialization: Inorganic Chemistry.
B. Sc. (Honors) 1988	Presidency College, Kolkata (University of Calcutta), Chemistry (Major), Mathematics and Physics (minor).

Research Experience

1996-1997	Research Associate , The Indian Association for the Cultivation of Science, Supervisor: Professor N. Ray Chaudhuri
1997-1999	Postdoctoral Research Fellow , Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan 300, R. O .C. Advisor: Professor C. P. Cheng.

Professional Experience

July, 1999 – March, 2001	Lecturer in Chemistry, Bangabasi Morning College
April 2001– Nov., 2005	Senior Lecturer in Inorganic Chemistry, Visva-Bharati
Dec., 2005 – Nov. 2008	Reader in Chemistry; University of Calcutta
Dec. 2008 – Nov. 2011	Associate Professor in Chemistry, University of Calcutta
Dec. 2011- Till date	Professor in Chemistry, University of Calcutta

Activity as a Ph.D. Supervisor

Number of Scholars Obtained Ph. D.(Sc.) Degree	17 (16 , as sole supervisor and 1 as co-supervisor)
Number of Scholars Submitted the thesis	0
Number of Scholars Working to obtain Ph.D.	8
No. of Post-doctoral Fellow	3 (2 DSK PDF and 1 CSIR RA)

Awards/Honours /Important Memberships

(i)	American Chemical Society (ACS) Membership Award-2015.
(ii)	Life member, The Indian Association for the Cultivation of Science, Jadavpur.
(iii)	Member, The American Chemical Society.
(iv)	Fellow, The Chemical Society of India.
(v)	Member, Board of Studies UG, University of Calcutta.
(vi)	Convenor, Ph.D. Research Advisory Committee (Inorganic Section), Department of Chemistry, University of Calcutta.
(vii)	Coordinator, DST-FIST Committee, Department of Chemistry, University of Calcutta.
(viii)	Coordinator, Library Committee, Department of Chemistry, University of Calcutta
(ix)	External Member, Board of Studies UG, Department of Chemistry,

	University of Burdwan.
(x)	External Member , Board of Studies UG, Department of Chemistry, University of Kalyani.
(xi)	Subject Expert in the Selection Committee for the post of Asst. Professor in the different Govt. aided Colleges in West Bengal appointed by the West Bengal College Service Commission.
(xii)	External Member , Board of Studies UG, Department of Chemistry, St. Xavier's College (Autonomous), Kolkata.
(xiii)	Subject Expert in the Selection Committee for the post of Asst. Professor/Associate Professor/Professor in the Department of Chemistry, University of Burdwan.
(xiv)	Subject Expert in the Selection Committee for the post of Asst. Professor/Associate Professor/Professor in the Department of Chemistry, Presidency University.
(xv)	Subject Expert for Chemistry in the Syllabus Revision Committee (at the UG level) appointed by The West Bengal State Council of Higher Education, Govt. of West Bengal (GO number 533-Edn(CS)/10M-24/2015 dated 24-06-2016).
(xvi)	Recipient of CRSI Bronze Medal (2019) from The Chemical Research Society of India
(xvii)	Member of the faculty Council of Natural & Mathematical Sciences, Presidency University, Kolkata.
(xviii)	Honorary Reviewer of ACS, RSC, Wiley and Science Direct journals on Inorganic Chemistry.

Research Interests

1. Modeling of the active site of Metallobiosites.
2. Bioinspired catalysis (both homo- and heterogeneous).
3. Development of artificial nucleases.
4. Synthesis of nano materials using coordination compounds and their applications.
5. Development of multifunctional Coordination Polymers

Sponsored Research Projects

Completed Project: 4 (CSIR-2; UGC-1; CRNN-1) Ongoing Project: 1 (WB-DST)

Invited Talks

In India: 15

In abroad: 1 (Spain)

List of Publications

Total Number of Publications: 127

h-index: 39.29 (as per Research Gate)

i-10 number: 70

2020

127. Sustainable Green Route to Synthesize Functional Nano MOFs as Selective Sensing Probes for CrVI Oxoanions and as Specific Sequestering Agent for $\text{Cr}_2\text{O}_7^{2-}$
Somali Mukherjee,* Sumi Ganguly, Debabrata Samanta and **Debasis Das***
[ACS Sustainable Chem. Eng. 8 \(2020\), 1195–1206.](#)
126. A Chemodosimetric Approach for Fluorimetric Detection of Hg^{2+} Ions by Trinuclear Zn(II)/Cd(II) Schiff Base Complex: First Case of Intermediate Trapping in a Chemodosimetric Approach,
Abani Sarkar, Aratrika Chakraborty,* Tonmoy Chakraborty, Suranjana Purkait, Debabrata Samanta, Suwendu Maity, and **Debasis Das***
[Inorg. Chem., 2020 DOI: 10.1021/acs.inorgchem.0c00857.](#)
125. A dinuclear iron complex as an efficient electrocatalyst for homogeneous water oxidation reaction,
Suhana Karim, Aratrika Chakraborty, Debabrata Samanta, Ennio Zangrando, Totan Ghosh and **Debasis Das***
[Catal. Sci.Technol., 10 \(2020\) 2830-2837.](#)
124. Synthesis of Mn_3O_4 nanozymes from structurally characterized phenoxazinone synthase models based on manganese(iii) Schiff base complexes
[Arnab Mandal](#), [Sanchari Dasgupta](#), [Amit Adhikary](#), [Debabrata Samanta](#), [Ennio Zangrando](#) and **Debasis Das***
[Dalton Trans., 49 \(2020\) 5999-6011.](#)
123. Designing of novel zinc(ii) Schiff base complexes having acyl hydrazone linkage: study of phosphatase and anti-cancer activities,

[Sanchari Dasgupta](#), [Suhana Karim](#), [Saswati Banerjee](#), [Moumita Saha](#), [Krishna Das Saha](#) and [Debasis Das](#)*

Dalton Trans., 49 (2020) 1232-1240

122. Executing a Series of Zinc(II) Complexes of Homologous Schiff Base Ligands for a Comparative Analysis on Hydrolytic, Anti-oxidant and Anti-bacterial Activities,
Tania Chowdhury, Sanchari Dasgupta, Somanjana Khatua, Krishnendu Acharya, and **Debasis Das***
ACS Appl. Bio Mater., 2020 DOI: [10.1021/acsabm.0c00372](https://doi.org/10.1021/acsabm.0c00372)
121. **Mapping of Solvent-Mediated Molecular Self-Assembly of Iron(III) Discrete Compounds: Exploring Their Magnetic Behavior and Phosphatase-Like Activity**
Tania Chowdhury, Amit Adhikary*, Manasi Roy, Debabrata Samanta, Ennio Zangrando, [Debasis Das](#)*
Cryst. Growth Des. 20 (2020) 1254–1265
120. Catalytic promiscuity of two novel cobalt(III) complexes derived from redox non-innocent Schiff base ligands: Unraveling the role of methyl groups in the ligand backbone on catalytic efficiency,
Sanchari Dasgupta, Sanchita Paul, Debabrata Samanta, Sili Hansda, Ennio Zangrando, [Debasis Das](#)*
Inorg. Chim. Acta, 501 (2020) 119336
119. Catalytic promiscuity of a copper(II)-Mannich base complex having unprecedented radical pathway in catecholase activity,
Sanchari Dasgupta, Arnab Mandal, Debabrata Samanta, Ennio Zangrando, Suwendu Maity, [Debasis Das](#)*
Inorg. Chim. Acta, 505 (2020) 119480
118. Unveiling the binding interaction of zinc (II) complexes of homologous Schiff-base ligands on the surface of BSA protein: A combined experimental and theoretical approach,
Tania Chowdhury, Kaushik Bera, Debabrata Samanta, Sandip Dolui, Suwendu maity, Nakul C. Maiti, Prasanta Kumar Ghosh, [Debasis Das](#)*
Applied Organometallic Chemistry. (2020) DOI:10.1002/aoc.5556

117. Evaluation of Functionality in Ni@stabilized ZrO₂ and NiO@NiO-Zn through X-ray Diffraction Technique,
Sanchari Dasgupta, Madhumita Mukhopadhyay*, **Debasis Das**, and Jayanta Mukhopadhyay
Mater. Chem. Phy., (2020) 123112

2019

116. Green Synthesis of Self Assembled Nanospherical Dysprosium MOFs: Selective and Efficient Detection of Picric Acid in Aqueous,
Somali Mukherjee, Sumi Ganguly,* Aratrika Chakraborty, Arnab Mandal, and **Debasis Das***
ACS Sustainable Chem. Eng., 7 (2019) 819–830
115. Anion-mediated bio-relevant catalytic activity of dinuclear nickel(II) complexes derived from an end-off compartmental ligand,
Tonmoy Chakraborty, Somali Mukherjee, Sanchari Dasgupta, Biplab Biswas and **Debasis Das ***
Dalton Trans., 48 (2019) 2772–2784
114. [Synthesis of Structurally Diverse Ferrimagnetically and Antiferromagnetically Coupled M^{II}–Mn^{II} \(M = Cu, Ni\) Heterometallic Schiff Base Compounds with a Dicyanamide Spacer and Study of Biomimetic Catalytic Activity](#),
Tonmoy Chakraborty, Abani Sarkar, Amit Adhikary*, Neha Chakiroy and **Debasis Das***
Cryst. Growth Des., 19 (2019) 7336-7348
113. Green Approach To Synthesize Crystalline Nanoscale ZnII-Coordination Polymers: Cell Growth Inhibition and Immunofluorescence Study,
Somali Mukherjee, Sumi Ganguly, Krishnendu Manna, Sanchaita Mondal, Supratim Mahapatra and **Debasis Das***
Inorg. Chem., 57 (2018) 4050-4060
112. Organically Functionalized Mesoporous SBA-15 Type Material Bearing Fluorescent Sites for Selective Detection of HgII from Aqueous Medium
Luna Paul, Somali Mukherjee, Souvik Chatterjee, Asim Bhaumik* and **Debasis Das***
ACS Omega. 4 (2019) 17857-17863
111. Exploration of catecholase-like activity of a series of magnetically coupled transition metal complexes of Mn, Co and Ni: new insights into the solution

state behavior of Mn complexes

Abani Sarkar, Aratrika Chakraborty, [Amit Adhikary](#), Suwendu Maity, Arnab Mandal, [Debabrata Samanta](#), Prasanta Ghosh and **Debasis Das***

[Dalton Trans.](#), 48 (2019) 14164-14177

110. Green synthesis of nanoscale cobalt(II)-based MOFs: highly efficient photo-induced green catalysts for the degradation of industrially used dyes
Arnab Mandal, Sumi Ganguly, Somali Mukherjee, and **Debasis Das***
[Dalton Trans.](#) 48 (2019) 13869-13879
109. A macrocyclic tetranuclear Zn^{II} complex as a receptor for selective dual fluorescence sensing of F⁻ and AcO⁻: effect of a macrocyclic ligand,
[Tonmoy Chakraborty](#), [Sanchari Dasgupta](#), [Arghyadeep Bhattacharyya](#), [Ennio Zangrando](#), [Daniel Escudero*](#) and [Debasis Das*](#)
[New J. Chem.](#), 43 (2019) 13152-13161
108. Mapping the working route of phosphate monoester hydrolysis catalyzed by copper based models with special emphasis on the role of oxoanions by experimental and theoretical studies,
[Sanchari Dasgupta](#), [Gabriel Aullón*](#), [Ennio Zangrando](#) and [Debasis Das*](#)
[New J. Chem.](#), 43 (2019) 2501-2512

2018

107. Portraying the Role of Halo Ligands and Auxiliary Part of Ligands of Mononuclear Manganese(III)-Schiff Base Complexes on Catalyzing Phospho-ester Bond Hydrolysis,
Tonmoy Chakraborty, Sanchari Dasgupta, Ennio Zangrando* and **Debasis Das***
[New J. Chem.](#), (2018) DOI: 10.1039/C8NJ02634C.
106. Zinc(II) complexes with uncommon aminated and hemiaminal ether derivatives: synthesis, structure, phosphatase activity and theoretical rationalization of ligand and complex formation,
Suranjana Purkait, Prateeti Chakraborty, Antonio Frontera, Antonio Bauza', Ennio Zangrando * and **Debasis Das ***
[New J. Chem.](#), 42 (2018) 12998-13009.
105. Green Approach To Synthesize Crystalline Nanoscale ZnII-Coordination Polymers: Cell Growth Inhibition and Immunofluorescence Study,

Somali Mukherjee, Sumi Ganguly, Krishnendu Manna, Sanchaita Mondal, Supratim Mahapatra and **Debasis Das***

Inorg. Chem., 57 (2018) 4050-4060.

104. Role of Electronegative Atom Present on Ligand Backbone and Substrate Binding Mode on Catecholase- and Phosphatase-Like Activities of Dinuclear Ni^{II} Complexes: A Theoretical Support,
Dr. Jaydeep Adhikary,* Ishani Majumdar, Dr. Priyanka Kundu, Prof. Haya Kornweitz, Prof. Hulya Kara and **Debasis Das***
Chemistry Select, 3 (2018) 1445-1454.

2017

103. A Deep Insight into the Photoluminescence Properties of Schiff Base Cd^{II} and Zn^{II} Complexes,
Ishani Majumder, Prateeti Chakraborty,* , Sanchari Dasgupta, Chiara Massera, Daniel Escudero,* and **Debasis Das***
Inorg. Chem., 21 (2017), 12893-12901.
102. Cooperative influence of pseudohalides and ligand backbone of Schiff-bases on nuclearity and stereochemistry of cobalt(III) complexes: experimental and theoretical investigation,
Arnab Mandal, Sanchari Dasgupta, Sumi Ganguly, Antonio Bauzá, Antonio Frontera * and **Debasis Das ***
Dalton Trans., 46 (2017) 15257-15268.
101. Oxidation of Organic Functionalities by PhI(OAc)₂ Catalysed by Magnetically Separable Fe₃O₄@dopa-Supported Mn(III) Complexes: Combined Experimental and Theoretical Approach,
Aratrika Chakraborty, Sanchari Dasgupta, Sourav Chatterjee, Prof. Maria Menendez*, Prof. Debasis Das*, Dr. Tanmay Chattopadhyaya*
Chemistry Select, 2 (2017), 8686-8700.
100. Unveiling the effects of the in situ generated arene anion radical and imine radical on catecholase like activity: a DFT supported experimental investigation,
Sanchari Dasgupta, Jaydeep Adhikary, Sanjib Giri, Antonio Bauza, Antonio Frontera and **Debasis Das ***
Dalton Trans., 46 (2017) 5888-5900.
99. Thiocyanate mediated structural diversity in phenol based “end-off”

compartmental ligand complexes of group 12 metal ions: Studies on their photophysical properties and phosphatase like activity
Jaydeep Adhikary, Prateeti Chakraborty, Sugata Samanta, Ennio Zangrando, Sanjib Ghosh, **Debasis Das***

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (2017) 114-124

98. “Ligand-Flexibility Controlled and Solvent-Induced Nuclearity Conversion in Cu^{II}-Based Catecholase Models: A Deep Insight Through Combined Experimental and Theoretical Investigations”
Sanchari Dasgupta, Ishani Majumder, Prateeti Chakraborty, Ennio Zangrando,* Antonio Bauza, Antonio Frontera, and **Debasis Das***,
Eur. J. Inorg. Chem. (2017) 133-145.

2016

97. Bio-fabricated silver nanoparticles preferentially targets gram positive
Depending on cell surface charge,
Debasis Mandal, Sandeep Kumar Dash, Balaram Das, Sourav Chattopadhyay, Totan Ghosh, **Debasis Das**, Somenath Roy*
Biomedicine & Pharmacotherapy, 83 (2016) 548-558.
96. Halide Ion Mediated Aldehyde-Amine Condensation Leading to Schiff-base and Cyclized Non-Schiff-base Ligand Complexes of CdII: A Combined Experimental and Theoretical Investigation,
Suranjana Purkait, Prateeti Chakraborty, Antonio Bauzá, Antonio Frontera,
Debasis Das*
ChemistrySelect (2016), 1, 4539-4549.
95. Novel bioinspired acetato-bridged dinuclear Nickel(II)-Schiff-Base complex: catechol oxidase and in vitro biological activity studies,
Ria Sanyal, S.K. Dash, P. Kundu, D. Mondal, S. Roy, **Debasis Das***
Inorg. Chim.Acta (2016)
94. Role of *para*-substitution in controlling phosphatase activity of dinuclear Ni^{II} complexes of Mannich-base ligands: experimental and DFT studies,
Ria Sanyal, X. Zhang, P. Chakraborty, C. Zhao,* F.A. Mautner, **Debasis Das***
RSC Advances, (2016) 6, 73534-73546.
93. Unique mononuclear Mn^{II} complexes of end-off compartmental Schiff base ligand: experimental and theoretical study on their bio-relevant catalytic

promiscuity,

Jaydeep Adhikary, Aratrika Chakraborty, Sanchari Dasgupta, Shyamal Kumar Chattopadhyay, Rafał Kruszynski, Agata Trzesowska-Kruszynska, Stepan Stepanović, Maja Gruden-Pavlović, Marcel Swart, Debasis Das*

Dalton Trans. 45 (2016) 12409-12422.

92. Role of Solvent on phosphatase activity of a dinuclear Nickel (II) complex of Schiff-base ligand: mechanistic interpretation by DFT studies,
Ria Sanyal, Xuepeng Zhang, Prateeti Chakraborty, Sanjib Giri, a Shyamal Kumar Chattopadhyay, Cunyuan Zhao* and Debasis Das*

New J. Chemistry 40 (2016) 7388-7398.

91. Catecholase activity of Mannich-based dinuclear CuII complexes with theoretical modeling: New insight into the solvent role in catalytic cycle,
Ria Sanyal, Priyanka Kundu, Elena Rychagova, Grigory Zhigulin, Sergey Ketkov, Bipinbihari Ghosh, Shyamal Kumar Chattopadhyay, Ennio Zangrando* and Debasis Das*

New J. Chemistry 40 (2016) 6623-6635.

90. Auxiliary Part of Ligand Mediated Unique Coordination Chemistry of Copper(II),

Ishani Majumder, Prateeti Chakraborty,* Jaydeep Adhikary, Hulya Kara, Ennio Zangrando,* Antonio Bauza, Antonio Frontera,* and **Debasis Das***

ChemistrySelect 3 (2016) 815-825.

89. Mn(II) complexes of different nuclearity: synthesis, characterization and catecholase-like activity,

Prateeti Chakraborty,* Ishani Majumder, Kazi Sabnam Banu, Bipinbihari Ghosh, Hulya Kara, Ennio Zangrando* and **Debasis Das***

Dalton Trans. 45 (2016) 742-752.

2015

88. Influence of para substituents in controlling photophysical behavior and different non-covalent weak interactions in zinc complexes of a phenolbased “end-off” compartmental ligand,

Prateeti Chakraborty, Jaydeep Adhikary, Sugata Samanta, Ishani Majumder, Chiara Massera, Daniel Escudero,* Sanjib Ghosh,* Antonio Bauza, Antonio Frontera* and **Debasis Das***

Dalton Trans. 44 (2015) 20032-20044.

87. Solvent Dependent Ligand Transformation in a Dinuclear Copper(II) Complex of a Compartmental Mannich-base Ligand: Synthesis, Characterization, Bio-relevant Catalytic Promiscuity and Magnetic study, Ishani Majumder, Prateeti Chakraborty, Sudhanshu Das, Hulya Kara, Shymal Kumar Chattopadhyay, Ennio Zangrando, and Debasis Das*
RSC Adv. 5 (2015) 51290-51301.
86. Exploration of CH... π interactions involving the -system of the pseudohalide coligands in metal complexes of a Schiff-base and studies of their photophysical properties, Prateeti Chakraborty,* Suranjana Purkait, Sandip Mondal, Antonio Bauzá, Antonio Frontera,* Chiara Massera, and Debasis Das*
CrystEngComm. (2015), DOI: 10.1039/C5CE00795J.
85. Phosphatase Models: Synthesis, Structure and Catalytic Activity of Zinc Complexes derived from a Phenolic Mannich-base Ligand, Ria Sanyal, Prateeti Chakraborty, Ennio Zangrando*, and Debasis Das*
Polyhedron 97 (2015) 55-65.
84. Influence of anions in synthesis, photoluminescence behavior and bio-relevant catalytic activity of zinc complexes of 2-((E)-((pyridin-2-yl)methylimino)methyl)phenol, Priyanka Kundu, Prateeti Chakraborty, Tanmay Chattopadhyay, Roland C. Fischer, Franz A. Mautner,* and Debasis Das*
Polyhedron 85 (2015) 320-328.
83. Configuration change from cis to trans of isothiocyanato groups in nickel(II) species: experimental verification and theoretical interpretation of reaction consequence and study on their bio-activity, Jaydeep Adhikary, Prateeti Chakraborty, Tanmay Chattopadhyay, Ritika Prasad, Yair Motro, Biplob Koch, * Franz A. Mautner, Yifat Miller,* Debasis Das,*
Polyhedron 93 (2015) 55-65.
82. Mechanistic Implications in the Phosphatase Activity of Mannich-Based Dinuclear Zinc Complexes with Theoretical Modeling Ria Sanyal, Xuepeng Zhang, Priyanka Kundu, Tanmay Chattopadhyay, Cunyuan Zhao,* Franz A. Mautner,* and Debasis Das*,
Inorg. Chem. 54 (2015) 2315-2324.

2014

81. Zinc sulphide nanoparticles selectively induced cytotoxic and genotoxic effects on leukemic cells: involvement of reactive oxygen species and necrosis factor alpha
Sandeep Kumar Dash, Totan Ghosh, Soumabrata Roy and Debasis Das*,
J. Appl. Toxicol. 34 (2014) 1130-1144.
80. Relation between the Catalytic Efficiency of the Synthetic Analogues of Catechol Oxidase with Their Electrochemical Property in the Free State and Substrate-Bound State
Prateeti Chakraborty, Jaydeep Adhikary, Bipinbihari Ghosh, RiaSanyal, Shyamal Kumar Chattopadhyay,* , Antonio Bauzá, Antonio Frontera,* ,
Ennio Zangrando,* and Debasis Das* ,
Inorg. Chem. 53 (2014) 8257-8269.
79. Chemodosimetric Detection of Acetate Anion by Using Template Reaction Method via Fluorescence ‘Turn-off’ Signal,
Sudhanshu Das, Sankar Jana, Prateeti Chakraborty, Ria Sanyal, Dilip Kumar Maiti, Nikhil Guchhait, Ennio Zangrando* and Debasis Das* ,
Eur. J. Inorg. Chem. (2014) 5432-5442.
78. Combined Experimental and Theoretical Investigation of Ligand and Anion Controlled Complex Formation with Unprecedented Structural Features and Photoluminescence Properties of Zinc(II) Complexes,
Prateeti Chakraborty, Jaydeep Adhikary, Sugata Samanta, Daniel Escudero, Abril C. Castro, Marcel Swart, Sanjib Ghosh, Antonio Bauzá, Antonio Frontera,* ,
Ennio Zangrando,* and **Debasis Das***
Cryst. Growth and Des. 14 (2014) 4111-4123.
77. Role of ligand backbone of tridentate Schiff-base on complex nuclearity and bio-relevant catalytic activities of zinc(II) complexes: Experimental and theoretical investigations,
Prateeti Chakraborty, Jaydeep Adhikary, Ria Sanyal, Amitava Khan, Krishnendu Mann, Sanjit Dey, Ennio Zangrando* Antonio Bauzá, Antonio Frontera* and **Debasis Das***
Inorg. Chim. Acta 421 (2014) 364-373.
76. Catecholase activity, DNA cleavage and cytotoxicity of six Zn(II) complexes synthesized from designed Mannich ligands: Higher reactivity of mononuclear over dinuclear,
Ria Sanyal, Sandeep Kumar Dash, Sudhanshu Das, Sourav Chattopadhyay, Somenath Roy, **Debasis Das***,

J. Biol. Inorg. Chem. 19 (2014) 1099-1111.

75. Syntheses, Characterization, and Magneto–Structural Analyses in μ 1,3-Acetato Bridged Tetracopper(II) and μ 1,3- and μ 1,1,3-Acetato-Bridged Pentanickel(II) Clusters,
Sudhanshu Das, Lorenzo Sorace,* Averì Guha, Ria Sanyal, Hulya Kara, Andrea Caneschi, Ennio Zangrando,* and **Debasis Das***,
Eur. J. Inorg. Chem. (2014) 2753-2764.
74. Preparation of antiferromagnetic Co₃O₄ nanoparticles from two different precursors by pyrolytic method: in vitro antimicrobial activity,
Totan Ghosh, Sandeep Kumar Dash, Prateeti Chakraborty, Averì Guha, Kenji Kawaguchi, Somenath Roy, Tanmay Chattopadhyay* and **Debasis Das***,
RSC Adv., 4 (2014) 15022–15029.
73. Influence of the Coordination Environment of Zinc(II) Complexes of Designed Mannich Ligands on Phosphatase Activity: A Combined Experimental and Theoretical Study,
Ria Sanyal, Averì Guha, Totan Ghosh, Tapan Kumar Mondal, Ennio Zangrando,* and **Debasis Das***,
Inorganic Chemistry, 53 (2014) 85-96.
72. Radical pathway in catecholase activity with nickel (II) complexes of phenol based “end-off” compartmental ligands
Totan Ghosh, Jaydeep Adhikary, Prateeti Chakraborty, Pradip K. Sukul, Mahendra Sekhar Jana, Tapan Kumar Mondal, Ennio Zangrando,* **Debasis Das***
Dalton Trans., 43 (2014) 841-852.
71. Dicyanamide mediated construction of 1D polymeric networks of quinoxaline with d¹⁰ metal ions: Synthesis, thermogravimetric analysis, photoluminescence and a theoretical investigation on the π ... π interactions, Prateeti Chakraborty, Sandip Mondal, Sudhanshu Das, Atish Dipankar Jana,* **Debasis Das***,
Polyhedron, 70 (2014) 11-19.
70. Influence of co-ligands in synthesis, photoluminescence behavior and catalytic activities of zinc complexes of 2-((E)-((pyridin-2-yl)methylimino)methyl)phenol
Priyanka Kundu, Prateeti Chakraborty, Jaydeep Adhikary, Tanmay Chattopadhyay, Roland C. Fischer, Franz A. Mautner*, **Debasis Das***

Polyhedron, 85 (2015) 320-328.

2013

69. A Combined Experimental and Theoretical Investigation on the Role of Halide Ligands on the Catecholase-like Activity of Mononuclear Nickel(II) Complexes with a Phenol-Based Tridentate Ligand,
Jaydeep Adhikary, Prateeti Chakraborty, Sudhanshu Das, Tanmay Chattopadhyay, Antonio Bauzá, Shyamal Kumar Chattopadhyay, Bipinbihari Ghosh, Franz A. Mautner,* Antonio Frontera,* **Debasis Das***
Inorganic Chemistry, 52 (2013) 13442-13452.
68. Heterogenization of three homogeneous catalysts: A comparative study as epoxidation catalyst,
Jaydeep Adhikary, Averi Guha, Tanmay Chattopadhyay* and **Debasis Das***
Inorg. Chimica Acta, 406 (2013) 1-9.
67. Synthesis, structure and catalytic aspects of the palladium(II) complex [PdLCl] (where LH = 2-formyl-4-methyl-6 Nethylpiperidineiminomethylphenol),
Debasis Das,* Pali Maiti, , Avik Kr Bagdi, Totan Ghosh, Tanmay Chattopadhyay, Sudhanshu Das, Alakananda Hajra, Adinath Majee & Ennio Zangrando
Indian Journal of Chemistry, 52A (2013) 863-867.
66. Surface modification of cobalt oxide nanoparticles using phosphonomethyl iminodiacetic acid followed by folic acid: a biocompatible vehicle for targeted anticancer drug delivery
Sourav Chattopadhyay, Sandeep Kumar Dash, Totan Ghosh, **Debasis Das**, Panchanan Pramanik and Somenath Roy
Cancer Nano DOI 10.1007/s12645-013-0042-7.
65. Zinc sulfide nanoparticles selectively induce cytotoxic and genotoxic effects on leukemic cells: involvement of reactive oxygen species and tumor necrosis factor alpha,
Sandeep Kumar Dash, Totan Ghosh, Soumyabrata Roy, Sourav Chattopadhyay and **Debasis Das***
J. Appl. Toxicol. (2013) DOI 10.1002/jat.2976.
64. Anticancer and immunostimulatory role of encapsulated tumor antigen containing cobalt oxide nanoparticles,
Sourav Chattopadhyay, Sandeep Kumar Dash, Totan Ghosh, Sabyasachi Das, Satyajit Tripathy, Debasis Mandal, **Debasis Das**, Panchanan Pramanik,

Somenath Roy,

J. Biol. Inorg. Chem., 18 (2013) 957-973.

63. Dinuclear cobalt(II) complexes of Schiff-base compartmental ligands: Syntheses, crystal structure and bio-relevant catalytic activities, Arpita Banerjee, Averi Guha, Jaydeep Adhikary, Amitava Khan, Krishnendu Manna, Sanjit Dey, Ennio Zangrando*, **Debasis Das** *
Polyhedron 60 (2013) 102-109.
62. A series of mononuclear nickel(II) complexes of Schiff-base ligands having N,N,O- and N,N,N-donor sites: Syntheses, crystal structures, solid state thermal property and catecholase-like activity
Averi Guha, Kazi Sabnam Banu, Sudhanshu Das, Tanmay Chattopadhyay, Ria Sanyal, Ennio Zangrando*, **Debasis Das***
Polyhedron 52 (2013) 669-678 (Invited article for special issue dedicated to Sir A. Werner).
61. Self-assembled nanostructures of specially designed Schiff-bases and their zinc complexes: Preparation, characterization and photoluminescence property
Averi Guha, Ria Sanyal, Tanmay Chattopadhyay, YounGyu Han, Tapan Kumar Mondal, **Debasis Das***
Journal of Molecular Structure 1042 (2013) 104-111.
60. Synthesis, X-ray structural and magnetic characterizations, and epoxidation activity of a new bis(l-acetato)(l-alkoxo)dinuclear iron(III) complex
Bhaskar Biswas, Merry Mitra, Jaydeep Adhikary, G. Rama Krishna, Partha Pratim Bag, C. Malla Reddy, Nuria Aliaga-Alcalde, Tanmay Chattopadhyay , **Debasis Das***, Rajarshi Ghosh*
Polyhedron 53 (2013) 264-268.
59. Phenoxo bridged luminescent dinuclear zinc(II) and cadmium(II) complexes of 2-[[[2-(2-pyridyl)ethyl]imino]methyl]phenol: Crystal structure, photophysical and thermal studies
Prateeti Chakraborty, Averi Guha, Sudanshu Das, Ennio Zangrando*, **Debasis Das***,
Polyhedron 49 (2013) 12-18.

2012

58. Radical Pathway in Catecholase Activity with Zinc-Based Model Complexes of Compartmental Ligands,

Averi Guha, Tanmay Chattopadhyay, Nanda Dulal Paul, Madhuparna Mukherjee, Somen Goswami, Tapan Kumar Mondal, Ennio Zangrando*, and **Debasis Das***,

Inorganic Chemistry 51 (2012) 8750–8759.

57. Dinickel(II) complex of N, N'-propylenebis(3-formyl-5-tert-butylsalicylaldehyde): X-ray structural characterization and bio-relevant catalytic activity,

Sudhanshu Das, Pali Maiti, Totan Ghosh, Ennio Zangrando*, and **Debasis Das***

Inorg. Chem. Commun. 15 (2012) 266–268.

56. Diastereomerism in tetranuclear copper(II) complexes of a phenol based “end off” compartmental ligand,

Debasis Das*, Averi Guha, Sudhanshu Das, Prateeti Chakraborty, Tapan Kumar Mondal, Somen Goswami, Ennio Zangrando

Inorg. Chem. Commun. 23 (2012) 113–116.

55. Dinuclear copper(II) complexes: Solvent dependent catecholase activity, Kazi Sabnam Banu, Madhuparna Mukherjee, Averi Guha, Santanu Bhattacharya, Ennio Zangrando* and **Debasis Das***

Polyhedron 45 (2012) 245–254.

54. CdO and CdS nanoparticles from Pyrolytic method: Preparation, characterization and photocatalytic activity,

Sandip Mondal, Tanmay Chattopadhyay*, Sudhanshu Das, Sankar Roy Maulik, Swarup Neogi and **Debasis Das***

Indian J. of Chem. 51A (2012) 807-811.

2011

53. Thiocyanate and Dicyanamide Anion Controlled Nuclearity in Mn, Co, Ni, Cu, and Zn Metal Complexes with Hemilabile Ligand 2-Benzoylpyridine,

Totan Ghosh, Tanmay Chattopadhyay, Sudhanshu Das, Sandip Mondal, Eringathodi Suresh, Ennio Zangrando*, and **Debasis Das***

Cryst. Growth & Des. 11 (2011) 3198–3205.

52. Dinuclear zinc(II) complexes with compartmental ligands: syntheses, structures, and bioactivities as artificial nuclease

Pali Maiti, Amitava Khan, Tanmay Chattopadhyay, Sudhanshu Das, Krishnendu Manna, Dipayan Bose, Sanjit Dey, Ennio Zangrando* and **Debasis Das***

J.Coord. Chem., 64 (2011) 3817–3831.

51. $\text{Na}_2\text{Cd}_2\text{I}_6\text{L}_2(\text{H}_2\text{O})_6$ [L=Urotropine]: An interesting precursor for synthesizing CdO particles
Sandip Mondal, Tanmay Chattopadhyay, Swarup Kumar Neogi, Totan Ghosh, Aritra Banerjee, **Debasis Das***
Materials Letters, 65 (2011) 783–785.
50. Bio-relevant manganese(II) compartmental ligand complexes: Syntheses, crystal structures and studies of catalytic activities,
Averi Guha, Kazi Sabnam Banu, Arpita Banerjee, Totan Ghosh, Santanu Bhattacharya, Ennio Zangrando,* and **Debasis Das,***
J. Molecular Catalysis A: Chemical 338 (2011) 51–57.
49. Synthesis, characterization and catecholase-like activity of $[\text{Mn}_2\text{L}_2(1,5\text{dca})_2(\text{dca})_2]\cdot\text{H}_2\text{O}$ [L = N,N'-ethylenebis(2-benzoylpyridineimine), dca = dicyanamide],
Pali Maiti, Totan Ghosh, Anjan Banerjee, Arpita Banerjee, Santanu Bhattacharya, Eringathodi Suresh, **Debasis Das,**
Transition Met Chem. 36 (2011) 195–199.
48. Synthesis, characterization and luminescence properties of polymeric cadmium(II) complexes with imidazole and its derivatives mediated by thiocyanate and dicyanamide anions,
Kazi Sabnam Banu, Sandip Mondal, Averi Guha, Sudhanshu Das, Tanmay Chattopadhyay, Eringathodi Suresh, Ennio Zangrando **Debasis Das,**
Polyhedron 30 (2011) 163–168.
47. Dinuclear nickel(II) complexes with Schiff base ligands: syntheses, structures and bio-relevant catalytic activities,
Arpita Banerjee, Averi Guha, Pali Maiti, Somen Goswami, Tanmay Chattopadhyay, Tapan Kumar Mondal, Santanu Bhattacharya, Ennio Zangrando and **Debasis Das***
Transition Met Chem. 36 (2011) 829–839.
46. Zinc and Cadmium complexes of a Schiff-base derived from diaminomaleonitrile and salicylaldehyde: Syntheses, characterization, photoluminescence properties and DFT study,
Averi Guha, Jaydeep Adhikary, Tapan Kumar Mondal, Debasis Das*
Indian J. Chem. 50A (2011) 1463-1468. (Invited article for special issue dedicated to Acharya P. C. Ray).
45. Epoxidation of olefins catalyzed by manganese(II) complexes of Schiff-base

ligand having N₂O coordination sphere

Averi Guha and **Debasis Das***

Indian J. Chem. 50A (2011) 1574-1578.

44. Anion mediated formation of different Schiff bases from the same precursors and their nickel(II) complexes with different nuclearity,
Averi Guha, Arpita Banerjee, Raju Mondol, Ennio Zangrando* and **Debasis Das***,
J. of Coordination Chem., 64 (2011) 3872-3886.

2010

43. A Unique Nickel System having Versatile Catalytic Activity of Biological Significance
Tanmay Chattopadhyay, Madhuparna Mukherjee, Arindam Mondal, Pali Maiti, Arpita Banerjee, Kazi Sabnam Banu, Santanu Bhattacharya, Bappaditya Roy, D. J. Chattopadhyay, Tapan Kumar Mondal, Munirathinam Nethaji, Ennio Zangrando,* and **Debasis Das***
Inorganic Chemistry 49 (2010,) 3121-3129.
42. Structure and luminescence of a nitrate-bridged heterotrinnuclear Cu₂-Pr complex with compartmental Schiff base ligand
Kazi Sabnam Banu; Totan Ghosh; Averi Guha; Tanmay Chattopadhyay; **Debasis Das***; Ennio Zangrando*
J. of Coordination Chemistry 63, (2010) 3714-3723.
41. Syntheses and crystal structures of cadmium(II)X₂-hexamethylenetetramine (X = Br⁻/I⁻/SCN⁻) coordination polymers having different dimensionality,
Arpita Banerjee, Pali Maiti, Tanmay Chattopadhyay, Kazi Sabnam Banu, Manami Ghosh, Eringathodi Suresh, Ennio Zangrando, **Debasis Das***
Polyhedron 29 (2010) 951-958.

2009

40. Influence of neutral donor ligands on the catalytic activities of Fe(III)-(Salen) complexes as epoxidation catalysts ,
Tanmay Chattopadhyay and **Debasis Das***,
J. of Coordination Chemistry, 5 (2009) 845-853
39. Mono and Dinuclear Zn(II) Complexes of Schiff-base Ligands: Synthesis, Characterization and Study of Photoluminescence property
Tanmay Chattopadhyay, Madhuparna Mukherjee, Kazi Sabnam Banu, Arpita

Banerjee, Eringathodi Suresh, Ennio Zangrando* and **Debasis Das***,
J. of Coordination Chemistry, 6 (2009) 967-979.

38. A unique coordination chemistry of sodium
Tanmay Chattopadhyay, Kazi Sabnam Banu, Arpita Banerjee, Eringathodi Suresh* and **Debasis Das***,
Inorganic Chemistry Communication 12(2009) 26-28.
37. Catechol oxidase activity of dinuclear copper(II) complexes of Robson type macrocyclic ligands: Syntheses, X-ray crystal structure, spectroscopic characterization of the adducts and kinetic studies
Kazi Sabnam Banu, Tanmay Chattopadhyay, Arpita Banerjee, Santanu Bhattacharya, Ennio Zangrando* and **Debasis Das***
J. Mol. Catal. A: Chemical 310, (2009), 34-41.
36. Mono- and dinuclear manganese(III) complexes showing efficient catechol oxidase activity: syntheses, characterization and spectroscopic studies
Kazi Sabnam Banu, Tanmay Chattopadhyay, Arpita Banerjee, Madhuparna Mukherjee, Santanu Bhattacharya, Goutam Kumar Patra, Ennio Zangrando* and **Debasis Das***
Dalton Trans., (2009), 8755-8764.
35. Metal Assisted Oxazolidine/Oxazine Ring Formation in Dinuclear Zinc(II) Complexes: Synthesis, Structural Aspects, and Bio-activity
Arpita Banerjee, Subhalakshmi Ganguly, Tanmay Chattopadhyay, Kazi Sabnam Banu, Santanu Bhattacharya, Ennio Zangrando* and **Debasis Das***
Inorganic Chemistry, 48 (2009) 8695-8702.

2008

34. Ligand effect on the growth reaction of copper(II) dicyanamide complexes: syntheses, characterization and X-ray single crystal structure analyses of $[\text{CuL}\{\text{N}(\text{CN})_2\}_2]_n$ and $[\text{CuL}'\{\text{N}(\text{CN})_2\}_2]_2$ [L = 2-(Aminoethyl)pyridine and L' = 2-(Aminomethyl)pyridine],
Tanmay Chattopadhyay, Arpita Banerjee, Nirmalya. Podder, Kazi Sabnam Banu, Manami Ghosh, Eringathodi Suresh* and **Debasis Das***
J. Mol. Struc. 2008, Vol. 888, 62.
33. Catechol Oxidase Activity of a series of new Dinuclear Copper(II) Complexes with 3, 5-DTBC and TCC as substrates: Syntheses, X-ray Crystal Structures, Spectroscopic Characterization of the adducts and Kinetic Studies

Kazi Sabnam Banu, Tanmay Chattopadhyay, Arpita Banerjee, Santanu Bhattacharaya, Eringathodi Suresh, Munirathinam Nethaji, Ennio Zangrando* and **Debasis Das***

Inorganic Chemistry, 2008, Vol. 47, 7083-7093.

32. Cadmium-halide and mixed Cadmium-halide-dicyanamide polymers mediated by ancillary 2-aminoalkyl-pyridine ligands: synthesis, X-ray single crystal structures and luminescence property

Tanmay Chattopadhyay, Arpita Banerjee, Kazi Sabnam Banu, Eringathodi Suresh, Munirathinam Netahji, Giovanni Birarda, Ennio Zangrando* and **Debasis Das***

Polyhedron, 2008, Vol. 27, 2452.

2007

31. A novel single pot synthesis of binuclear copper(II) complexes of macrocyclic and macroacyclic compartmental ligands: structures and magnetic properties, Tanmay Chattopadhyay, Kazi Sabnam Banu, Arpita Banerjee, Joan Ribas,* Adinath Majee, Munirathinum Nethaji,* and **Debasis Das***

J.Mol. Struc., 2007, Vol. 833, 13.

30. Mono- and bi-metallic Mn(III) complexes of macroacyclic salen type ligands: syntheses, characterization and studies of their catalytic activity, Tanmay Chattopadhyay, Samimul Islam, Adinath Majee, Munirathinum Nethaji* and **Debasis Das***

J. Mol. Catal. A: Chemical 2007, Vol. 267, 255.

29. Syntheses, characterization and solid state thermal studies of N-propyl-1,2-diaminoethane (L) and N-isopropyl-1,2-diaminoethane (L') complexes of nickel(II) nitrite: X-ray single crystal structure of *trans*-[NiL₂(NO₂)₂],

Tanmay Chattopadhyay, Manami Ghosh, Kazi Sabnam Banu, Arpita Banerjee, Munirathinum Nethaji* and **Debasis Das***

Transition Metal Chem., 32 (2007) 531.

28. Ligand steric effect on the coordination mode of nitrite ion: syntheses and X-Ray single crystal structures of *trans*-[NiL₂(ONO)₂] and *cis*-1[NiL'₂(O₂N)](NO₂)-H₂O [L= 2-(Aminomethyl)pyridine and L'= (2-Aminoethyl) pyridine],

Tanmay Chattopadhyay, Nirmalya Podder, Kazi Sabnam Banu, Arpita Banerjee, Manami Ghosh, Eringathodi Suresh* , Munirathinum Nethaji and **Debasis Das***,

J. Mol. Struc., 839 (2007) 69.

2005

27. Linkage isomerism in 4-(2-aminoethyl)morpholine (L) complexes of nickel (II) nitrite: X-ray single crystal structure of trans-[NiL₂(NO₂)₂]
Tanmay Chattopadhyay, Manami Ghosh, Adinath Majee, Munirathinam Nethaji*,
Debasis Das *
[Polyhedron, 24 \(2005\) 1677-1681.](#)

2002

26. Flexibility in co-ordinative behaviour of N-(3-hydroxypropyl)ethane-1,2-diamine towards cadmium (II) halides: syntheses, crystal structures and solid state thermal studies,
I.R. Laskar, G. Mostafa, T.K. Maji, **D. Das**, A. J. Welch, and N. Ray Chaudhuri*,
[J. Chem. Soc., Dalton Trans., \(2002\) 1066.](#)
25. Thermal studies of copper(II) squarate complexes of diamines in the solid state,
T. K. Maji, **D. Das**, S. Sain, and N. Ray Chaudhuri*,
[J. Thermal Analysis and Calorimetry, Vol. 68 \(2002\) 319.](#)
24. Exchange interactions in a one-dimensional bromo-bridged copper (II) compound with a ladder-like structure,
S. Sain, T. K. Maji, **D. Das**, T-H Lu, G. Mostafa, J. Ribas, Md. S. El Fallah, and N. Ray Chaudhuri*,
[J. Chem. Soc., Dalton Trans., \(2002\) 1302.](#)

2001

23. First ever structural reports on thermally induced nitro → nitrito (O,O) linkage and nitrito ↔ nitrito conformational transformations in diamine complexes of nickel(II) in the solid state,
I. R. Laskar, **D. Das**, G. Mostafa, T. H. Lu, T. C. Keng, J. C. Wang, A. Ghosh, and N. Ray Chaudhuri*,
[New. J. Chem., \(2001\) 764.](#)
22. Synthesis and crystal structure of selenocyanato-bridged two dimensional supramolecular coordination compounds of Cadmium(II),
T. K. Maji, S. Sain, G. Mostafa, **D. Das**, T-H Lu, and N. Ray Chaudhuri*
[J. Chem. Soc., Dalton Trans., \(2001\) 3149.](#)
21. Preparation, characterization and solid state thermal studies of cadmium(II) squarate complexes of ethane-1,2-diamine and its derivatives,

T. K. Maji, **D. Das**, and N. Ray Chaudhuri*,
J. Thermal Analysis and Calorimetry, Vol. 63 (2001) 617.

20. Syntheses and characterization of diamine complexes of nickel(II) nitrate: X-ray single crystal structural analysis of $trans-[NiL_2(NO_3)_2]$ [L = 1-(2-aminoethyl)piperidine],
I. R. Laskar, **D. Das**, W-T Wong, and N. Ray Chaudhuri*,
Transition Met. Chem. Vol. 26 (2001) 594.
19. Syntheses, characterisation and solid state thermal studies of 1-(2-aminoethyl)piperidine (L), 1-(2-aminoethyl)pyrrolidine (L') and 4-(2-aminoethyl)morpholine (L'') complexes of nickel(II): X-ray single crystal structure analyses of $trans-[NiL_2(CH_3CN)_2](ClO_4)_2$, $trans-[NiL_2(NCS)_2]$ and $trans-[NiL''_2(NCS)_2]$,
I. R. Laskar, T. K. Maji, **D. Das**, T-H Lu, W-T Wong, K-ichi Okamoto, and N. Ray Chaudhuri*,
Polyhedron, 20 (2001) 2073.

2000

18. *Cis-trans* isomerism in nickel(II)-diamine nitrite : synthesis and single crystal structure of an unusual *cis*-dinitronickel(II) complex, $[NiL_2(NO_2)_2]$ (L= 1,2-diamino-2-methylpropane),
I.R. Laskar, A. Ghosh, G. Mostafa, **D. Das**, A. Mondal, and N. Ray Chaudhuri*,
Polyhedron, 19 (2000) 1015.
17. Synthesis and characterization of mono- and bi-metallic Mn(III) complexes containing salan type ligands,
D. Das and C. P. Cheng*,
J. Chem. Soc., Dalton Trans., (2000) 1081.

1999

16. Thermal studies of N-phenylethane-1,2-diamine complexes of nickel(II) in the solid state.
D. Das and N. Ray Chaudhuri*,
J. Thermal Analysis and Calorimetry, Vol. 55 (1999) 895.
15. Thermal studies of nickel(II) squarate complexes of triamines in the solid state
A. Mondal, **D. Das** and N. Ray Chaudhuri*,
J. Thermal Analysis and Calorimetry, Vol. 55 (1999) 165.

14. *Trans*-dinitrobis(N-ethylethane-1,2-diamine)nickel(II), I.R. Laskar, G. Mostafa, **D. Das**, Ken-ichi Okamoto and N. Ray Chaudhuri*
[Acta Cryst., C 55 \(1999\) 1994.](#)

1998

13. Syntheses and characterization of N, N'-dipropyl/diisopropylethane-1,2-diamine complexes of nickel(II) nitrate : thermal studies and X-ray single crystal structure analysis of *cis*-nitrato bis(N, N'-dipropylethane-1, 2-diamine)nickel(II) nitrate,
I. R. Laskar, **D. Das**, N. Ray Chaudhuri*, G. Mostafa and A. J. Welch
[Polyhedron, Vol. 17 \(1998\) 1363.](#)
12. Synthesis and characterization of diamine complexes of nickel(II) trifluoroacetate : thermochromism and X-ray single crystal structure analyses of [Ni(pren)2(CF3CO2)2] and [Ni(ipren)2(CF3CO2)2] (pren = N-propylethane-1,2-diamine and ipren = N-isopropyl-ethane-1,2-diamine),
D. Das, G. Mostafa, Ken-ichi Okamoto and N. Ray Chaudhuri*
[Polyhedron, Vol. 17 \(1998\) 2567.](#)
11. Syntheses and characterisation of N,N'-dipropyl-1,2-ethanediamine and N,N'-diisopropyl-1,2-ethanediamine complexes of nickel(II). Thermal studies and X-ray single crystal structure analysis of [Ni(N,N'-dipropyl-1,2-ethanediamine)2(NCS)2]
I.R. Laskar, **D. Das**, G. Mostafa, A. J. Welch and N. Ray Chaudhuri*
[Acta Chem. Scand., Vol. 52 \(1998\) 702.](#)
10. First structural characterisation of nitro-nitrito linkage isomers of nickel(II) : Synthesis and X-ray single crystal structures of [NiL2(NO2)2] and [NiL2(ONO)2] [L = 1-(2-aminoethyl)piperidine]
D. Das, I. R. Laskar, A. Ghosh, A. Mondal, Ken-ichi Okamoto, and N. Ray Chaudhuri*
[J. Chem. Soc., Dalton Trans., \(1998\) 3987.](#)

1997

9. Preparation, characterization and solid state thermal studies of nickel(II) squarate complexes of 1,2-ethanediamine and its derivatives,
D. Das, A. Ghosh and N. Ray Chaudhuri*
[Bull. Chem. Soc. Jpn., Vol.70 \(1997\) 789.](#)
8. Synthesis, IR and electronic spectroscopic and X-ray single crystal structural

analysis of *cis*-[Ni(ipren)₂(NO₃)](NO₃) (ipren = N-isopropylethane-1,2-diamine).

D. Das, A. Ghosh, N. P. Nayak, A. K. Mukherjee and N. Ray Chaudhuri*

Polyhedron, Vol. 16 (1997) 2361.

7. Synthesis and characterization of [NiL₂(OCOCF₃)₂] {L = 1-(2-aminoethyl)-piperidine} : thermochromism and X-ray single crystal structure analysis,

D. Das, N. P. Nayak, A. K. Mukherjee and N. Ray Chaudhuri*

Polyhedron, Vol. 16 (1997) 3305.

1996

6. Thermal studies of 2-aminoethanol complexes of nickel(II) in the solid state,

D. Das, A. Ghosh, S. Koner and N. Ray Chaudhuri*

Thermochim. Acta, 285 (1996) 99.

5. Thermal studies of N-propylethane-1,2-diamine and N-isopropylethane-1,2-diamine complexes of nickel(II) in the solid state,

D. Das, A. Ghosh and N. Ray Chaudhuri*

Thermochim. Acta, Vol. 287 (1996) 155.

4. Solid-state *trans*- → *cis* thermochromic isomerism in N-propylethane-1,2-diamine complex of nickel(II) nitrate,

D. Das, A. Ghosh and N. Ray Chaudhuri*

Polyhedron, Vol. 15 (1996) 3919.

1995

3. Thermochromism in nickel(II) complexes : thermal, IR spectroscopy, solid-state ¹H NMR and single crystal X-ray analysis of diaquabis(2,2-dimethylpropane-1,3-diamine),

S. Koner, A. Ghosh, C. Pariya, **D. Das**, H. Kikuchi, K. Okamoto and R. Ikeda*

J. Mol. Struc., Vol. 345 (1995) 265.

1994

2. Solid-state thermal studies and thermochromism of nickel(II) iodide complexes containing propane-1,3-diamine, N-methylpropane-1,3-diamine and 2,2-dimethylpropane-1,3-diamine,

D. Das, A. Ghosh, C. Pariya and N. Ray Chaudhuri*

J. Chem. Res. (S), (1994) 136.

1. Preparation, characterization, and solid state thermal studies of nickel(II) iodide complexes of ethane-1,2-diamine and its derivatives,
D. Das, A. Ghosh, N. Ray Chaudhuri*
Bull. Chem. Soc. Jpn., Vol.67 (1994) 3254.