

Curriculum Vitae

Dr. Kartik Chandra Mondal

Associate Professor
Department of Chemistry
Indian Institute of Technology Madras
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Field of Specialization:

Main Group Chemistry and Molecular Magnetism

M. Sc. Thesis supervised:

21 M.Sc. project theses completed.
At present two M.Sc students are continuing M.Sc. A large number of short-term project students worked in our group over the years.

Ph.D Thesis Supervised:

4 Ph.D theses completed. They are doing post docs in foreign countries (Germany and Norway).
At present 14 Ph.D scholars are working in our group. 2 more Ph.D scholars are under my co-guidance.

Postdocs:

Two Postdoc scholars completed their research work.

Experiences:

November 2022-present:

Associate Professor, Department of Chemistry, IIT Madras, Chennai, India.

December 2015-October 2022:

Assistant Professor, Department of Chemistry, IIT Madras, Chennai, India.

October 2011-November 2015:

Postdoctoral Fellow at the Institute of Inorganic Chemistry, Georg-August University, Göttingen, Germany.

Mentor: Prof. Herbert W. Roesky

May 2011-September 2011:

Postdoctoral Fellow at KIT, Karlsruhe, Germany

Mentor: Prof. Annie K. Powell

April 2008-April 2011:

Ph.D. in Inorganic Chemistry; KIT, Karlsruhe, Germany.

Advisor: Prof. Annie K. Powell.

Dissertation: "Syntheses, Structures and Properties of f and d-f Complexes using O-Vanillin-Derived Schiff Base Ligands"

Teaching at IIT Madras:

1) BTech (CY1001, Inorganic and Organic Chemistry)

2) MSc/PhD (CY6011, Solid State Chemistry)

3) MSc (CY5012, Main Group Chemistry)

4) Preparatory Chemistry

5) BTech (CY1001, Inorganic and Organic Chemistry)

Education:

August 2004-July 2007: Master in Chemistry (MS), Department of Inorganic and Physical Chemistry, Indian Institute of Science (IISc), Bangalore, India.

Title of MS Thesis: "Synthesis, Crystal Structure and Magnetic Property of Paramagnetic Metal Clusters and Polymers"

August 2001-July 2004: Bachelor in Chemistry (BSc), Chemistry Department, Ramakrishna Mission, Narendrapur; University of Calcutta, W.B., India.

List of Publications:

121. Sonam Suthar; Ritu Kaushik; **Kartik Chandra Mondal***. Interaction of $\eta^2\text{-C}_2\text{B}_{10}\text{H}_{10}$ and Its Derivatives with Group-X Transition Metals: A Theoretical Study using DFT. *Inorg. Chem.* **2025**, 44(13), 1395–1403.
120. Kalyankumar S. Morla; Rajulal Sahu; Subuhan Ahamed; Saurav Ghosh; **Kartik Chandra Mondal**; Babasaheb R. Sankapal*; Abhishek Banerjee*. Ligand-Directed Assembly and Transformation of Hybrid Oxo-Vanadates to 3d–3d Oxo-Vanado-Cuprates: Structural Diversification and Superior Electrochemical Performance in Prototype Liquid Configured Device Grade Supercapacitor. *Dalton Trans.* **2025**, 54(46), 17322-17335.
119. Bhawana Shekhawat; Subuhan Ahamed; Puneet Singh Gahlaut; Saurav Ghosh; Deepak Gautam; **Kartik Chandra Mondal**; Barun Jana*. Developing Highly Active Cu(II)-Triazolyl-Pyridine Complexes for C–H Functionalization of 9H-Fluorene and Indole via Borrowing Hydrogen Strategy. *Catal. Sci. Technol.* **2025**, 15(20), 6001-6010.
118. Jicheng Wang; Harsha S. Karnamkkott; Yanling Zhu; Manbo Zhang; Manoj Kumari; **Kartik Chandra Mondal***; Bin Li*. A Contrastive Experimental Study on Substitution of the Bulky Phosphanide $[\text{P}(\text{SiPr}_3)_2]^-$ toward Heavier Tetrylenes. *Inorg. Chem.* **2025**, 64(37), 18704-18713.
117. Shivani Bhagat; Swapna Rout; Madhuri Bhattacharya; Pranjal Singh; Harsha S. Karnamkkott; **Kartik Chandra Mondal**; Babasaheb R. Sankapal; Umesh Pratap*. Exquisite Synthesis of Porphyrin-Derived Covalent Organic Framework Spheres as an Electrochemical Double-Layer Capacitor. *J. Energy Storage* **2026**, 143, 119504.
116. Jicheng Wang; Sonam Suthar; Yanling Zhu; Manbo Zhang; **Kartik Chandra Mondal***; Bin Li*; Hongping Zhu. Unprecedented Multinuclear Zwitterionic Germylene with Ge_4 Chain Motif. *Organometallics* **2025**, 44(15), 1620-1623.
115. Madhuri Bhattacharya; Sunil Kumar; Björn Schwarz*; Liviu Ungur*; **Kartik Chandra Mondal***. Enhanced Easy Axis Magnetic Anisotropy in a Siloxane Bridged Linear CoI_3 Single-Molecule Magnet. *Cryst. Growth Des.* **2025**, 7085–7096.
114. Sujit Das; Amul Jain; Subuhan Ahamed; Bhanendra Sahu; Sonam Suthar; Björn Schwarz; Christel Livia Mascarenhas; Sangita Mondal; Sanjib Banerjee*; Saroj Kumar Kushvaha; Herbert W. Roesky*; **Kartik Chandra Mondal***. Redox and NIR Active Octahedral Low-spin-Iron(III)-tri-radical Catalyzed Radical Polymerization of Acrylamides and Methacrylates at Ambient Temperature. *Angew. Chem. Int. Ed.* **2025**, 64(34), e202507231.

113. Chenfeng Wang; Yan Li; Sai Manoj N. V. T. Gorantla; Ming-Der Su*; Subuhan Ahamed; Zhifang Li*; Liviu Ungur*; **Kartik Chandra Mondal***. Silaiminyl-silylene-derived unsymmetrical diradical silacycles isolated in three different charge and spin states. *Inorg. Chem.* **2025**, 64(40), 19961-19972.
112. Yuanyuan Wang; Harsha Karnamkkott; Jicheng Wang; Yanling Zhu; Manbo Zhang; Manoj Kumari; **Kartik Chandra Mondal***; Bin Li*. Synthesis and Reactivity of Germyl Substituted Gallapnictenes. *Inorg. Chem.* **2025**, 64, 3485–3494.
111. Sujit Das; Sangita Mondal; Sonam Suthar; Ranay Kumar Ray; Karunamayee Mondal; Avany A. Raveendran; Subuhan Ahamed; Mahiuddin Baidya; Björn Schwarz*; Debashis Chakraborty*; Liviu Ungur*; **Kartik Chandra Mondal***. Isolation and Characterization of Carbene-Supported Air Stable Co(II)-Radical Complex with Bileptic Redox Non-innocent Ligands: Stability, Bonding, Ring-Opening Copolymerization Studies and Photo-Catalytic Ring Cyclization Activity. *Dalton Trans.* **2025**, 54, 11182–11192.
110. Sujit Das; Sonam Suthar; Maria Francis; Saurav Ghosh; Sangita Mondal; Sunil Kumar; **Kartik Chandra Mondal***. Isolation and Characterization of a Blue Coloured Three Coordinate Cu(I)-Radical Complex with a S₃ Donor Set. *Chem. Commun.* **2025**, 61, 2746–2749.
109. Kalyankumar Morla; Dewendra Thakre; Adarsh Mourya; Piyush Singh; Harsha S. Karnamkkott; Subuhan Ahamed; Subham Sahoo; Ishita Bhattacharya; Siddhartha Banerjee; Debajit Sarma; **Kartik Chandra Mondal***; Sujit Ghosh*; Atul Wankhade*; Abhishek Banerjee*. A Mixed Metallic and Mixed Valence Mo^V₄V^{IV}₂V^{III}₂ Complex as an Electron Transfer Photo-Catalyst for the Hydrogen Evolution Reaction. *Chem. Commun.* **2025**, 61, 8919-8922
108. Kalyankumar S. Morla; Dewendra Thakre; Tushar Balasaheb Deshmukh; Sunanda Malo; Ravari Kandy Aparna; Shubham Sahoo; Subuhan Ahamed; Debajit Sarma; **Kartik Chandra Mondal***; Balasaheb R. Sankapal*; Abhishek Banerjee*. In-depth Understanding of the Electrochemical Energy Storage Efficiency between a Series of New 3d–4d Mixed Metal Polyoxometalates: Experimental and Theoretical Investigations. *J. Mater. Chem. A* **2024**, 12, 22013-22029.
107. Bin Li*; Yuanyuan Wang; Sonam Suthar; Manbo Zhang*; **Kartik Chandra Mondal***. Comparable Syntheses of Terminal Aluminum Selenide and Telluride. *New J. Chem.* **2025**, 49, 1133–1137.
106. Harsha S. Karnamkkott; **Kartik Chandra Mondal***. Nature of Metal–Metal Bond in Group-V Dinuclear Metallaborane Compounds: Open-Shell – Open-Shell vs Closed-Shell – Closed-Shell Interaction. *Eur. J. Inorg. Chem.* **2024**, 27, e202400252.
105. Sonam Suthar; Ritu Kaushik; **Kartik Chandra Mondal***. Probing Transition Metal–Fullerene Bonds: EDA-NOCV Analyses. *Organometallics* **2025**, 44, 1395–1403.
104. Jayasree Kumar; Sunil Kumar; Saurav Ghosh; **Kartik Chandra Mondal***. Investigation of Possible Spin Frustration in Isolated Isosceles Mn^{III}Ni^{II}₂ Triangle: Experimental and Theoretical Studies. *Inorg. Chem. Commun.* **2024**, 166, 112452.
103. Harsha S. Karnamkkott; Sujit Das; Totan Mondal; **Kartik Chandra Mondal***. Small Molecule Activation by Sila/Germa Boryne Species. *J. Comput. Chem.* **2023**, 45(11), 804-819.
102. Sonam Suthar; **Kartik Chandra Mondal***. Unveiling the Bonding Scenario in Metal-Aryne Complexes with EDA-NOCV Analyses. *Organometallics* **2023**, 43(3), 261-272.
101. Rui Liu; **Kartik Chandra Mondal***; Chenfeng Wang; Sonam Suthar; Zijie Fang; Darui Zuo; Yan Li*. Synthesis of SiN/SiS-heterocycles via the reactions of a bis-silylene with isocyanate/isothiocyanate molecules. *Chem. Commun.* **2024**, 60(9), 1148-1151.

100. Sonam Suthar; **Kartik Chandra Mondal***. Unveiling the Anomaly of Reduction of Carborane-bis-silylene Stabilized Silylone/Germylone Leading to Unusual Oxidation of Si^0/Ge^0 to $\text{Si}^{\text{I}}/\text{Ge}^{\text{I}}$ with EDA-NOCV Analyses. *Chem. Eur. J.* **2023**, 30(10), e202303355.
99. Selvakumar Arumugam; Sai Manoj N. V. T. Gorantla; Christel Livia Mascarenhas; Birger Dittrich*; **Kartik Chandra Mondal***. Activation of Water at Disiladibene: From the Perspective of Modification of Silicon Surface with Organo-Silicon Compounds. *J. Chem. Sci.* **2024**, 136(2), 18.
98. Selvakumar Arumugam; Björn Schwarz*; Prathap Ravichandran; Sunil Kumar; Liviu Ungur*; **Kartik Chandra Mondal***. Dipotassiumtetrachloride Bridged Dysprosium Metallocenes: A Single Molecule Magnet. *Dalton Trans.* **2023**, 52, 15326–15333.
97. Jayasree Kumar; Imon J. Dutta; Kuduva R. Vignesh*; **Kartik Chandra Mondal***. Unique Hexanuclear Mixed Bimetallic $\text{Mn}^{\text{III}}_2\text{Ni}^{\text{II}}_4$ Complex Possessing Both Jahn-Teller Tetragonally Elongated and Compressed Mn^{III} Ions: Spin Frustration. *Cryst. Growth Des.* **2024**, 24(9), 3786-3797.
96. Sonam Suthar; **Kartik Chandra Mondal***. Open Shell versus Closed Shell Bonding Interaction in Cyclopropane Derivatives: EDA-NOCV Analyses. *J. Comput. Chem.* **2023**, 44, 2184–2211.
95. Jayasree Kumar; Ibtesham Tarannum; Saurabh Kumar Singh*; **Kartik Chandra Mondal***. A Spin Frustrated Azide and Alkoxide Bridged Hetero-bimetallic Mixed Valence $\text{Mn}^{\text{II}}\text{Mn}^{\text{III}}_2\text{Ni}^{\text{II}}_4$ Disc with $S = 17/2$ or $19/2$. *ACS Omega* **2024**, 9, 5809–5818.
94. Sujit Das; Kavita Devi; Sonam Suthar; **Kartik Chandra Mondal***. Bonding and Stability of Elusive Silaboryne ($\text{Si}\equiv\text{B}$) and Germaboryne ($\text{Ge}\equiv\text{B}$) with Donor Base Ligands. *J. Comput. Chem.* **2023**, 44, 1673–1689.
93. Selvakumar Arumugam; Saroj Kumar Kushvaha; Prathap Ravichandran; Jayasree Kumar; Sai Manoj N. V. T. Gorantla; Totan Mondal; Herbert W. Roesky*; **Kartik Chandra Mondal***. Carbene-Functionalized Bulky-Cyclopentadiene Rings. *Chem. Eur. J.* **2025**, 31, e202404430.
92. Jayasree Kumar; Nikhil George Mohan; Tamilselvi Gurusamy; Sai Manoj N. V. T. Gorantla; Prathap Ravichandran; Kothandaraman Ramanujam*; **Kartik Chandra Mondal***. Electrochemical Dinitrogen to Ammonia Reduction at a Nickel(II) Site: An Easy Access to an Air-Stable Catalyst. *J. Mater. Chem. A* **2024**, 12(8), 4473-4483.
91. Sunil Kumar; Selvakumar Arumugam; Björn Schwarz*; Helmut Ehrenberg; **Kartik Chandra Mondal***. Static and Dynamic Magnetic Properties of a Co(II)-Complex with N_2O_2 Donor Set – A Theoretical and Experimental Study. *Eur. J. Inorg. Chem.* **2023**, e202200774.
90. Selvakumar Arumugam; Madhuri Bhattacharya; Sai Manoj N. V. T. Gorantla; **Kartik Chandra Mondal***. Redox Active cAAC–Fluorene/Indene Systems Displaying Solvatochromism, Green Luminescence and pH Sensing: Functionalization of Fluorenyl/Indenyl Rings with Radical Carbene. *Chem. Asian J.* **2022**, 18, e202201041.
89. Saroj Kumar Kushvaha; Prathap Ravichandran; Chen Dan; Liviu Ungur*; Nithin Suryadevara; Mario Ruben*; **Kartik Chandra Mondal***. Dysprosium-Radical Based Single-Molecule Magnet Containing a Seven Coordinate Dy(III) Ion: A System for ab initio Study. *Eur. J. Inorg. Chem.* **2024**, 27, e202300598.
88. Jayasree Kumar; Ibtesham Tarannum; Yan-Zhen Zheng*; Saurabh Kumar Singh*; **Kartik Chandra Mondal***. Assembly of Mn^{III} Ions into Di-, Tetra-, Deca-nuclear Coordination Complexes, Zero- to Three-Dimensional Molecular Framework: Molecular Spin Flop to and Bulk Magnetic Spin Flop Ordering. *CrystEngComm* **2024**, 26, 80–99.
87. Harsha S. Karnamkott; Sai Manoj N. V. T. Gorantla; **Kartik Chandra Mondal***. EDA-NOCV Analyses M– E_2 Bond: E_2 Binding and Activation [$\text{E}_2 = \text{N}_2, \text{H}_2$]. *J. Chem. Sci.* **2024**, 136, 55.

86. Sai Manoj N. V. T. Gorantla; Harsha S. Karnamkkott; Selvakumar Arumugam; Sangita Mondal; **Kartik Chandra Mondal***. Stability and Bonding of Carbon(0)-Iron-N₂ Complexes Relevant to Nitrogenase Co-factor: EDA-NOCV Analyses. *J. Comput. Chem.* **2023**, 44, 43–60.
85. Ekta Nag; Sridhar Battuluri; **Kartik Chandra Mondal**; Sudipta Roy*. Isolation of Homo/Mixed Valence Ag₁₂, Ag₂₉, and Ag₈ Clusters Stabilized by Cyclic Alkyl(amino) Carbene-Anchored Monoanionic Phosphorus Ligand. *Chem. Eur. J.* **2022**, 28, e202202324.
84. Pragyanth Singh; Sören Schlittenhardt; Dewendra Thakre; Saroj Kushvaha; Sunil Kumar; Harsha S. Karnamkkott; Mario Ruben; Masooma Ibrahim; Abhishek Banerjee*; **Kartik Chandra Mondal***. Exploration of Vanadium(IV)-based Single-Ion Magnet Properties in Diphosphonate Supported Mixed-valent Polyoxovanadates. *Cryst. Growth Des.* **2022**, 22, 5666–5679.
83. Akshay Chauhan; Harsha S. Karnamkkott; Sai Manoj N. V. T. Gorantla; **Kartik Chandra Mondal***. Dinitrogen Binding and Activation: Bonding Analyses of Stable V(III/I)-N₂-V(III/I) Complex by EDA-NOCV Method from Perspective of Vanadium Nitrogenase. *ACS Omega* **2022**, 7, 31577–31590.
82. Sai Manoj N. V. T. Gorantla; **Kartik Chandra Mondal***. Bonding and Stability of Active Catalyst Ni(II)-Species Coordinated by Intermediate Ester-Functionalized Carbene Ligands: A Deeper Insight via EDA-NOCV Calculations. *Chem. Asian J.* **2022**, 17, e202200572.
81. Sai Manoj N. V. T. Gorantla, **Kartik Chandra Mondal***. "Uncovering the hidden reactivity of benzyne/aryne precursors utilized under milder condition: Bonding and stability studies by EDA-NOCV analyses." *J. Comput. Chem.* **2022**, 43, 1543–1560.
80. Kavita Devi, Sai Manoj N. V. T. Gorantla, **Kartik Chandra Mondal***. EDA-NOCV Analysis of Carbene-Borylene Bonded Dinitrogen Complexes for Deeper Bonding Insight: A Fair Comparison with a Metal-Dinitrogen System. *J. Comput. Chem.* **2022**, 43, 757–777.
79. Sai Manoj N. V. T. Gorantla, Sudip Pan, **Kartik Chandra Mondal***, Gernot Frenking* Bonding Analysis of the C₂ Precursor Me₃E-C₂-I(Ph)FBF₃ (E = C, Si, Ge). *Pure Appl. Chem.* **2022**, 94, 767–781.
78. Saroj Kumar Kushvaha, **Kartik Chandra Mondal***. "Molecular Hybrid Phosphors." In Hybrid Phosphor Materials: Synthesis, Characterization and Applications. *Springer International Publishing* **2022**, 73–104. ISBN: 978-3-030-90506-4.
77. Saroj Kumar Kushvaha, Sai Manoj N. V. T. Gorantla, **Kartik Chandra Mondal***. Stabilization of Interstellar CSi₂ Species by Donor Base Ligands: L-CSi₂-L; L = cAAC^{Me}, NHC^{Me}, and PMe₃. *J. Phys. Chem. A*, **2022**, 126, 845–858.
76. Saroj Kumar Kushvaha, Ankush Mishra, Herbert W. Roesky*, **Kartik Chandra Mondal***. Recent Advances in the Domain of Cyclic (alkyl)(amino) Carbenes. *Chem. Asian J.* **2022**, e202101301.
75. Kavita Devi, Sai Manoj N. V. T. Gorantla, **Kartik Chandra Mondal***. Dinitrogen Binding Relevant to FeMoco of Nitrogenase: Clear Visualization of σ-Donation and π-Backdonation from Deformation Electron Densities around Carbon/Silicon-Iron Site. *Eur. J. Inorg. Chem.* **2022**, e202100931.
74. Ekta Nag, Aditya Kulkarni, Sai Manoj N. V. T. Gorantla, Nico Graw, Maria Francis, Regine Herbst-Irmer, c Dietmar Stalke*, Herbert W. Roesky*, **Kartik Chandra Mondal***, Sudipta Roy* Fluorescent Organo-Antimony Compounds as

- Precursors for Syntheses of Redox-Active Trimeric and Dimeric Alkali Metal Antimonides: An Insight into Electron Transfer Reduction Processes. *Dalton Trans.* **2022**, 51, 1791–1805. ([Inside Front Cover](#))
73. Harsha S. Karnamkott, Sai Manoj N. V. T. Gorantla, Kavita Devi, Geetika Tiwari, **Kartik Chandra Mondal**.* Bonding and Stability of Dinitrogen-Bonded Donor Base-Stabilized Si(0)/Ge(0) Species $[(cAACMe-Si/Ge)_2(N_2)]$: EDA-NOCV Analysis. *RSC Adv.* **2022**, 12, 4081–4093.
 72. Sai Manoj N. V. T. Gorantla, **Kartik Chandra Mondal**.* Estimations of $Fe^{0/1}-N_2$ Interaction Energies of Iron(0)-Dicarbene and its Reduced Analogue by EDA-NOCV Analyses: Crucial Steps in Dinitrogen Activation Under Mild Condition. *RSC Adv.* **2022**, 12, 3465–3475.
 71. Sai Manoj N. V. T. Gorantla, **Kartik Chandra Mondal**.* Estimations of $Fe-N_2$ Intrinsic Interaction Energies of Iron–Sulfur/Nitrogen–Carbon Sites: A Deeper Bonding Insight by EDA-NOCV Analysis of a Model Complex of the Nitrogenase Cofactor. *ACS Omega* **2021**, 6, 49, 33932–33942.
 70. Sai Manoj N. V. T. Gorantla, **Kartik Chandra Mondal**.* EDA–NOCV Calculation for Efficient N_2 Binding to the Reduced Ni_3S_8 Complex: Estimation of $Ni-N_2$ Intrinsic Interaction Energies. *ACS Omega*, **2021**, 6, 49, 33389–33397.
 69. N. V. T. Sai Manoj Gorantla, **Kartik Chandra Mondal**.* Energy Decomposition Analysis Coupled with Natural Orbitals for Chemical Valence and Nucleus-Independent Chemical Shift Analysis of Bonding, Stability, and Aromaticity of Functionalized Fulvenes: A Bonding Insight. *ACS Omega* **2021**, 6, 17798–17810.
 68. Saroj Kumar Kushvaha, Maria Francis, Jayasree Kumar, Ekta Nag, PrathapRavichandran, Sudipta Roy,* **Kartik Chandra Mondal**.* Synthesis, oligomerization and catalytic studies of a redox-active Ni_4 -cubane: a detailed mechanistic investigation. *RSC Adv.* **2021**, 11, 22849–22858.
 67. N. V. T. Sai Manoj Gorantla, Pattiyil Parameswaran,* **Kartik Chandra Mondal**.* Stabilization of group 14 elements $E = C, Si, Ge$ by hetero-bileptic ligands $cAAC, MCO_n$ with push-pull mechanism. *J. Comput. Chem.* **2021**, 42, 1159–1177.
 66. N. V. T. Sai Manoj Gorantla, Maria Francis, Sudipta Roy,* **Kartik Chandra Mondal**.* Bonding and stability of donor ligand-supported heavier analogues of cyanogen halides $(L')PSi(X)(L)$. *RSC Adv.* **2021**, 11, 6586–6603.
 65. N. V. T. Sai Manoj Gorantla, **Kartik Chandra Mondal**.* Bonding and stability of C_6F_4 bridged by bis-carbenes: EDA-NOCV analysis of $(L)_2C_6F_4$ [$L = SNHC^{Dip}, cAAC^{Me}$]. *Eur. J. Inorg. Chem.* **2021**, 960–968.
 64. N. V. T. Sai Manoj Gorantla, Sudip Pan, **Kartik Chandra Mondal**,* Gernot Frenking.* Revisiting the Bonding Scenario of Two Donor Ligand Stabilized C_2 Species. *J. Phys. Chem. A* **2021**, 125, 291–301.
 63. Gorantla, S. M.; Pan, S.; **Mondal, K. C.**,* Frenking, G.* Stabilization of Linear C_3 by Two Donor Ligands. A Theoretical Study of $L-C_3-L$ ($L = PPh_3, NHC^{Me}, CAAC^{Me}$). *Chem. – A Eur. J.* **2020**, 26, 14211–14220.
 62. Kulkarni, A.; Arumugam, S.; Francis, M.; Reddy, P. G.; Nag, E.; Gorantla, S. M. N. V. T.; **Mondal, K. C.**,* Roy, S.* Solid State Isolation of Cyclic Alkyl(Amino) Carbene (CAAC)-Supported Structurally Diverse Alkali Metal-Phosphinidenides. *Chem. – A Eur. J.* **2021**, 27, 200–206.
 61. Selvakumar Arumugam, Pulikant Guruprasad Reddy, Maria Francis, Adithya Kulkarni, Sudipta Roy, **Kartik Chandra Mondal**.* Highly fluorescent aryl-cyclopentadienyl ligands and their tetra-nuclear mixed metallic potassium-dysprosium clusters. *RSC Adv*, **2020**, 10, 39366–39372.

60. Arumugam, S.; Kumar Kushvaha, S.; Shankar, B.; Gorantla, S. M. N. V. T.; Roy, S.; Sana, B.; Khuntia, P.; **Mondal, K. C.*** Tuning Nuclearity of Dysprosium (III) Complexes by Controlling Substitution on Ligand Molecule. *ChemistrySelect* **2020**, 5, 9787–9792.
59. Arumugam, S.; Shankar, B.; **Mondal, K. C.*** Redox Active Hexanuclear Mixed Valence Dicationic Ce(III)/Ce(IV) Coordination Clusters. *Eur. J. Inorg. Chem.* **2020**, 43, 4127–4136.
58. Nag, E.; Gorantla, S. M. N. V. T.; Arumugam, S.; Kulkarni, A.; **Mondal, K. C.***,* Roy, S.* Tridentate Nickel(II)-Catalyzed Chemodivergent C-H Functionalization and Cyclopropanation: Regioselective and Diastereoselective Access to Substituted Aromatic Heterocycles. *Org. Lett.* **2020**, 22, 6313–6318.
57. Kushvaha, S. K.; Arumugam, S.; Shankar, B.; Sarkar, R. S.; Ramkumar, V.; **Mondal, K. C.*** Isolation and Characterization of Different Homometallic and Heterobimetallic Complexes of Nickel and Zinc Ions by Controlling Molar Ratios and Solvents. *Eur. J. Inorg. Chem.* **2019**, 24, 2871–2882. (VIP article with Back Cover page)
56. Gorantla, N. V. T. S. M.; Guruprasad Reddy, P.; Abdul Shakoar, S. M.; Mandal, R.; Roy, S.;* **Mondal, K. C.*** Tetranuclear 3 d/4 f Coordination Complexes as Homogeneous Catalysts for Bis(Indolyl)Methane Syntheses. *ChemistrySelect* **2019**, 4, 7722–7727.
55. Gorantla, N. V. T. S. M.; Kushvaha, S. K.; Mandal, R.; **Mondal, K. C.*** A Series of Umbrella-Shape Copper-Lanthanides Based Mixed Metallic Coordination Complexes. *ChemistrySelect* **2019**, 4, 8424–8428.
54. Kushvaha, S. K.; Shankar, B.; Gorantla, N. V. T. S. M.; **Mondal, K. C.*** A Fluorescent Hexanuclear Zn(II) Complex. *ChemistrySelect* **2019**, 4, 3334–3339.
53. Kumar, J.; Gorantla, N. V. T. S. M.; Roy, S.;* Paesch, A. N.; Herbst-Irmer, R.; Stalke, D.;* Anusha, C.; De, S.; Parameswaran, P.;* Roesky, H. W.;* **Mondal, K. C.*** A Dicobalt Coordination Complex with a Short Cobalt-Cobalt Distance. *ChemistrySelect* **2018**, 3, 8221–8228.
52. Sudipta Roy, **Kartik Chandra Mondal**,* Subrata Kundu, Bin Li, Christian J Schürmann, Sayan Dutta, Debasis Koley,* Dietmar Stalke,* Regine Herbst-Irmer and Herbert W. Roesky*. Two Structurally Characterized Conformational Isomers with Different C-P Bonds. *Chem. Eur. J.* **2017**, 23, 12153–12157.
51. **Kartik Chandra Mondal**,* Sudipta Roy, Birger Dittrich,* Diego M. Andrada, Gernot Frenking,* Herbert W. Roesky*. A Triatomic Silicon(0) Cluster Stabilized by a Cyclic Alkyl(amino) Carbene. *Angew. Chem. Int. Ed.* **2016**, 55, 3158–3161. (VIP article)
50. **Kartik Chandra Mondal**,* Sudipta Roy, Bholanath Maity, Debasis Koley,* and Herbert W. Roesky.* Estimation of σ -Donation and π -Backdonation of Cyclic Alkyl(amino) carbene Containing Compounds. *Inorg. Chem.* **2016**, 55, 163–169.
49. Sudipta Roy, **Kartik Chandra Mondal**, Herbert W. Roesky.* Cyclic Alkyl(amino) Carbene Stabilized Low Coordinate Metal Complexes of Enduring Nature. *Acc. Chem. Res.* **2016**, 49, 357–369.
48. **Kartik Chandra Mondal**, Sudipta Roy, Herbert W. Roesky.* Silicon Based Radical, Radical ion and Diradical. *Chem. Soc. Rev.* **2016**, 45, 1080–1111. [Highlighted in Atlas Science news, <http://atlasofscience.org/silicon-based-radical-radical-ion/>]
47. Sudipta Roy, **Kartik Chandra Mondal**,* Totan Mondal, Debasis Koley,* Birger Dittrich,* Herbert W. Roesky.* Monomeric siliconthiodichloride trapped by a Lewis base. *Dalton Trans.* **2015**, 44, 19942–19947.

46. **Kartik Chandra Mondal**, Sudipta Roy, Birger Dittrich,* Bholanath Maity, Sayan Dutta, Debasis Koley,* Suresh Kumar Vasa, Rasmus Linser, Sebastian Dechert, Herbert W. Roesky.* A Soluble Molecular Variant of the Semiconducting Silicondiselenide. *Chem. Sc.* **2015**, 6, 5230–5234.
45. Chandrajeet Mohapatra, **Kartik Chandra Mondal**, Prinson P. Samuel, Helena Keil, Benedikt Niepötter, Regine Herbst-Irmer, Dietmar Stalke,* Sayan Dutta, Debasis Koley,* Herbert W. Roesky.* A Stable Dimer of SiS₂ Arranged Between Two Carbene Molecules. *Chem. Eur. J.* **2015**, 21, 12572–12576. (*Highlighted in frontispiece of Chem. Eur. J.*).
44. **Kartik Chandra Mondal**, Valeriu Mereacre, George E. Kostakis, Yanhua Lan, Christopher E. Anson, Ion Prisecaru, Oliver Waldmann, Annie K. Powell.* A Strongly Spin-Frustrated Fe^{III}₇ Complex with a Canted Intermediate Spin Ground State of S = 7/2 or 9/2. *Chem. Eur. J.* **2015**, 21, 10835–10842.
43. Kerim Samedov, Robert West,* Paul W. Percival, Jean-Claude Brodovitch, Lalangi Chandrasena, Mina Mozafari, Reinhard Tacke, Konstantin Junold, Claudia Kobelt, Prinson P. Samuel, Ramachandran Azhakar, **Kartik Chandra Mondal**, Herbert W. Roesky, Matthias Driess, Wenyuan Wang. Free radicals reactivity of N-donor stabilized silicon (II) compounds probed by muon spin spectroscopy. *Organometallics*, **2015**, 34, 3532–3537.
42. Sudipta Roy, **Kartik Chandra Mondal**, Jann Meyer, Benedikt Niepötter, Christian Köhler, Regine Herbst-Irmer, Dietmar Stalke, Birger Dittrich,* Diego M. Andrada, Gernot Frenking,* Herbert W. Roesky.* Syntheses, Characterization and Theoretical Investigation of Two Coordinate Palladium(0) and Platinum(0) Complexes Utilizing π -accepting Carbenes. *Chem. Eur. J.* **2015**, 21, 9312–9318. (*Featured as HOT paper and Inside cover page*)
41. Prinson P. Samuel, Roman Neufeld, **Kartik Chandra Mondal**, Herbert W. Roesky,* Regine Herbst-Irmer, Dietmar Stalke,* Serhiy Demeshko, Franc Meyer, Vallyanga Chalil Rojisha, Susmita De, Pattiyil Parameswaran,* A. Claudia Stückl, Wolfgang Kaim, Jonathan H. Christian, Jasleen K. Bindrad, Naresh S. Dalal.* Cr(I)Cl as well as Cr⁺ are stabilised between two cyclic alkyl amino carbenes. *Chem. Sc.* **2015**, 6, 3148–3153.
40. Sudipta Roy, **Kartik Chandra Mondal**, Lennard Krause, Peter Stollberg, Regine Herbst-Irmer, Dietmar Stalke,* Jann Meyer, A. Claudia Stückl, Bholanath Maity, Debasis Koley,* Suresh Kumar Vasa, Sheng Qi Xiang, Rasmus Linser, and Herbert W. Roesky.* Electron Mediated Conversion of Silylones to Six-membered Cyclic Silylenes, *J. Am. Chem. Soc.* **2014**, 136, 16776–16779. (*Featured in JACS Spotlights*).
39. Birger Dittrich,* Claudia M. Wandtke, Alke Meents, Kevin Pröpper, **Kartik Chandra Mondal**, Prinson P. Samuel, Nurul Amin Sk, Amit P. Singh, Herbert W. Roesky,* Navdeep Sidhu. Aspherical-Atom Modeling of Coordination Compounds by Single-Crystal X-ray Diffraction Allows the Correct Metal Atom To Be Identified. *ChemPhysChem* **2015**, 16, 412–419. DOI: [10.1002/cphc.201402600](https://doi.org/10.1002/cphc.201402600).
38. **Kartik Chandra Mondal**, Birger Dittrich,* Bholanath Maity, Debasis Koley,* Herbert W. Roesky.* Cyclic Alkyl(amino) Carbene Stabilized Biradical of Disilicontetrachloride. *J. Am. Chem. Soc.* **2014**, 136, 9568–9571. (*Featured in JACS Spotlights*)
37. **Kartik Chandra Mondal**, Prinson P. Samuel, Herbert W. Roesky,* Rinat R. Aysin, Larissa A. Leites, Sven Neudeck, Jens Lübben, Birger Dittrich,* Markus Hermann, Gernot Frenking.* One Electron Mediated Rearrangements of 2,3-Disiladicarbene. *J. Am. Chem. Soc.* **2014**, 136, 8919–8922.
36. Prinson P. Samuel, **Kartik Chandra Mondal**, Herbert W. Roesky,* Elena Carl, Roman Neufeld, Dietmar Stalke,* Serhiy Demeshko, Franc Meyer,* Liviu Unger,* Liviu Chibotaru, Jonathan Christian, Vasanth Ramachandran, Johan van Tol, Naresh Dalal.* Electronic Structure and Slow Magnetic Relaxation of Low-Coordinate Cyclic Alkyl(Amino) Carbene Stabilized Iron (I) Complexes. *J. Am. Chem. Soc.* **2014**, 136, 11964–11971.

35. **Kartik Chandra Mondal**, Sudipta Roy, Susmita De, Pattiyil Parameswaran,* Birger Dittrich,* Serhiy Demeshko, Fabian Ehret, Wolfgang Kaim, Herbert W. Roesky.* Stabilization of a Two Coordinate Mono-Atomic Cobalt(0). *Chem. Eur. J.* **2014**, 20, 11646-11649. ([Selected for front cover page](#))
34. Jinjin Wang, Rui Liu, Wenqing Ruan, Yan Li, **Kartik Chandra Mondal**, Herbert W. Roesky,* Hongping Zhu.* N-P Bond Cleavage Induced Ring Formation of Cyclosilazanes from Reactions of Aryl(phosphanyl)aminotrichlorosilanes with Lithium Alkynyls. *Organometallics*, **2014**, 33, 2696–2703.
33. David S. Weinberger, Nurul Amin SK, **Kartik Chandra Mondal**, Mohand Melaimi, Guy Bertrand,* A. Claudia Stückl, Herbert W. Roesky,* Birger Dittrich,* Serhiy Demeshko, Brigitte Schwederski, Wolfgang Kaim, Paul Jerabek, Gernot Frenking.* Isolation of Neutral Mononuclear Copper Complexes Stabilized by Two Cyclic (Alkyl)(Amino)Carbenes. *J. Am. Chem. Soc.* **2014**, 136, 6235–6238.
32. **Kartik Chandra Mondal**, Prinson P. Samuel, Herbert W. Roesky,* Benedikt Niepötter, Regine Herbst-Irmer, Dietmar Stalke,* Fabian Ehret, Wolfgang Kaim, Bholanath Maity, Debasis Koley.* Synthesis and Characterization of a Triphenyl-Substituted Radical and an Unprecedented Formation of a Carbene-Functionalized Quinodimethane. *Chem. Eur. J.* **2014**, 20, 9240–9245.
31. Bappa Gole, **Kartik Chandra Mondal**, Partha Sarathi Mukherjee.* Tuning Nuclearity of Clusters by Positional Change of Functional Group: Synthesis of Polynuclear Clusters, Crystal Structures and Magnetic Properties. *Inorg. Chim. Acta.* **2014**, 415, 151-164.
30. Yan Li, **Kartik Chandra Mondal**, Prinson P. Samuel, Hongping Zhu,* Claudia M. Orben, Saravanan Panneerselvam, Birger Dittrich,* Brigitte Schwederski, Wolfgang Kaim, Totan Mondal, Debasis Koley,* Herbert W. Roesky.* C4-cumulene, its Air-stable Radical Cation and Dication. *Angew. Chem. Int. Ed.* **2014**, 53, 4168–4172.
29. Yan Li, **Kartik Chandra Mondal**, Peter Stollberg, Hongping Zhu,* Herbert W. Roesky,* Regine Herbst-Irmer, Dietmar Stalke,* Heike Fliegl. Unusual Formation of a N-heterocyclic Germylene via Homolytic Cleavage of a C-C Bond. *Chem. Commun.*, **2014**, 50, 3356–3358 ([Featured as HOT article](#)).
28. **Kartik Chandra Mondal**, Prinson P Samuel, Herbert W Roesky,* Elena Carl, Regine Herbst-Irmer, Dietmar Stalke,* Brigitte Schwederski, Wolfgang Kaim, Liviu Ungur, Liviu F. Chibotaru, Markus Hermann, Gernot Frenking.* Stabilization of a Cobalt-Cobalt Bond by Two Cyclic Alkyl Amino Carbenes. *J. Am. Chem. Soc.* **2014**, 136, 1770–1773.
27. Yan Li, **Kartik Chandra Mondal**, Jens Lübben, Hongping Zhu,* Birger Dittrich,* Indu Purushothaman, Pattiyil Parameswaran,* Herbert W. Roesky.* A Functionalized Ge₃-compound with a Dual Character of the Central Germanium Atom. *Chem. Commun.*, **2014**, 50, 2986–2989.
26. **Kartik Chandra Mondal**, Prinson P. Samuel, Yan Li, Herbert W. Roesky,* Sudipta Roy, Lutz Ackermann,* Navdeep S. Sidhu, George M. Sheldrick, Elena Carl, Serhiy Demeshko, Susmita De, Pattiyil Parameswaran, Liviu Ungur, Liviu F. Chibotaru, Diego M. Andrada. A Catalyst with Two Coordinate Nickel: Theoretical and Catalytic Studies. *Eur. J. Inorg. Chem.* **2014**, 818–823.
25. Benedikt Niepötter, Regine Herbst-Irmer, Daniel Kratzert, Prinson P. Samuel, **Kartik Chandra Mondal**, Herbert W. Roesky,* Paul Jerabek, Gernot Frenking,* Dietmar Stalke.* Experimental Charge Density Study of a Silylone. *Angew. Chem. Int. Ed.* **2014**, 53, 2766 –2770.
24. **Kartik Chandra Mondal**, Herbert W. Roesky,* Birger Dittrich,* Nicole Holzmann, Markus Hermann, Gernot Frenking,* Alke Meents. Formation of a 1,4-Diamino-2,3-disila-1,3-butadiene Derivative. *J. Am. Chem. Soc.* **2013**, 135, 15990–15993. [[Highlighted in Nachrichten aus der Chemie, 2014, 62, 3](#)]

23. **Kartik Chandra Mondal**, Herbert W. Roesky,* A. Claudia Stückl, Fabian Ehret, Wolfgang Kaim,* Birger Dittrich,* Bholanath Maity and Debasis Koley.* Formation of Trichlorosilyl Substituted Carbon Centered Stable Radicals by Utilizing π -Accepting Carbenes. *Angew. Chem. Int. Ed.* **2013**, 52, 11804 –11807. [Highlighted in *Nachrichten aus der Chemie*, **2014**, 62, 3]
22. Prinson P. Samuel, **Kartik Chandra Mondal**, Herbert W. Roesky,* Markus Hermann, Gernot Frenking,* Serhiy Demeshko, Franc Meyer, A.Claudia Stückl, Jonathan H. Christian, Naresh S. Dalal, Liviu Ungur, Liviu F. Chibotaru, Kevin Pröpper, Alke Meents and Birger Dittrich.* Synthesis and Characterization of (cAAC)₂Mn with Dicoordinate Manganese and its Reaction with Molecular Hydrogen at Room Temperature. *Angew. Chem. Int. Ed.* **2013**, 52, 11817–11821. [Highlighted in *Nachrichten aus der Chemie*, **2014**, 62, 3]
21. Yan Li, **Kartik Chandra Mondal**, Herbert W. Roesky,* Hongping Zhu,* Peter Stollberg, Regine Herbst-Irmer, Dietmar Stalke,* Diego M. Andrada.* Acyclic Germynes: Congeners of Allenes with a Central Germanium Atom. *J. Am. Chem. Soc.* **2013**, 135, 12422–12428. [Highlighted in *Nachrichten aus der Chemie*, **2014**, 62, 3]
20. Amit Pratap Singh, Prinson P. Samuel, **Kartik Chandra Mondal**, Herbert W. Roesky,* Navdeep S. Sidhu, Birger Dittrich.* Lewis Base Stabilized Group 14 Metallylenes. *Organometallics*, **2013**, 32, 354–357.
19. **Kartik Chandra Mondal**, Prinson P. Samuel, Mykyta Tretiakov, Amit Pratap Singh, Herbert W. Roesky,* A. Claudia Stückl, Benedikt Niepötter, Elena Carl, Hilke Wolf, Regine Herbst-Irmer, Dietmar Stalke.* An Easy Access to Silicon(0) and Silicon(II) Compounds. *Inorg. Chem.* **2013**, 52, 4736–4743.
18. **Kartik Chandra Mondal**, Herbert W. Roesky,* Martin C. Schwarzer, Gernot Frenking,* Benedikt Niepötter, Hilke Wolf, Regine Herbst-Irmer, Dietmar Stalke.* A Stable Singlet Biradicaloid Siladibene: (L:)₂Si. *Angew. Chem. Int. Ed.* **2013**, 52, 2963–2967. [Highlighted in *Nachrichten aus der Chemie*, **2014**, 62, 3]
17. **Kartik Chandra Mondal**, Herbert W. Roesky,* Martin C. Schwarzer, Gernot Frenking,* Igor Tkach, Hilke Wolf, Daniel Kratzert, Regine Herbst-Irmer, Benedikt Niepötter, Dietmar Stalke.* Conversion of a Singlet Silylene to a Stable Biradical. *Angew. Chem. Int. Ed.* **2013**, 52, 1801–1805. [VIP article, Selected for back cover page; Highlighted in *Nachrichten aus der Chemie*, **2014**, 62, 3]
16. **Kartik Chandra Mondal**, George E. Kostakis, Yanhua Lan, Annie K. Powell.* Defect-Magnetic Properties of Five Planar Defect Dicubanes of [Ln^{III}₄(μ_3 -OH)₂(L)₄(HL)₂]-2THF (Ln = Gd, Tb, Dy, Ho and Er). *Polyhedron* **2013**, 66, 268–273.
15. **Kartik Chandra Mondal**, Alexander Sundt, Yanhua Lan, George E. Kostakis, Oliver Waldmann, Liviu Ungur, Liviu F. Chibotaru, Christopher E. Anson, Annie K. Powell.* Defect-Coexistence of Distinct Single-Ion and Exchange-Based Mechanisms for Blocking of Magnetization in a Co^{II}/Dy^{III} Single-Molecule Magnet. *Angew. Chem. Int. Ed.* **2012**, 51, 7550 –7554.
14. **Kartik Chandra Mondal**, George E. Kostakis, Yanhua Lan, Wolfgang Wernsdorfer, Christopher E. Anson, Annie K. Powell.* Defect-Dicubane Ni₂Ln₂ (Ln = Dy, Tb) Single Molecule Magnets. *Inorg. Chem.* **2011**, 50, 11604–11611.
13. **Kartik C. Mondal**, Bappa Gole, S. R. Batten, Y. Song, S. Batten, D. Turner, Partha S. Mukherjee.* Synthesis and Characterization of a Rare Hemiacetalate Bridged Incomplete Cu^{II}₄ Cluster and Two 1D Chain of Defect Cubane Na₂Ni₂: Synthesis, Crystal Structure, Magnetic Property, EPR and Theoretical Study. *J. Chem. Sci.* **2011**, 123, 807–818.
12. Zeeshan Majeed, **Kartik Chandra Mondal**, George E. Kostakis, Yanhua Lan, Christopher E. Anson, Annie K. Powell.* Structure and Magnetic Properties of a Decanuclear Mn^{II}₂Mn^{III}₂Dy₆ Aggregate. *Dalton. Trans.* **2010**, 4740–4743.

11. Zeeshan Majeed, **Kartik Chandra Mondal**, George E. Kostakis, Yanhua Lan, Christopher E. Anson, Annie K. Powell.* [LnNa(PhCO₂)₄] (Ln = Ho, Dy): The First Examples of Chiral SRS 3D Networks Constructed using the Monotopic Benzoate Ligand. *Chem. Commun.* **2010**, 46, 2551–2553. [\[Selected for inside cover page\]](#)
10. **Kartik Chandra Mondal**, George E. Kostakis, Yanhua Lan, Christopher E. Anson, Annie K. Powell.* Spin Canting and Metamagnetic Behaviour of a New Species from Hydrothermal Co(II)-Trans-3-Pyridylacrylate System. *Inorg. Chem.* **2009**, 48, 9205–9213.
9. G.E. Kostakis, **Kartik Chandra Mondal**, C. E. Anson, A.K. Powell.* Influence of the Metal Radius on the Dimensionality of Hydrogen-Bonded Metal Supramolecular Frameworks in the Metal/*p*-BDTH₂ (1,4-Benzenedinitetrazol-5-yl) Reaction System, *Polyhedron*, **2010**, 29, 24–29.
8. George E. Kostakis, **Kartik Chandra Mondal**, Ghulam Abbas, Yanhua Lan, Ghenadie Novitchi, Gernot Buth, Christopher E. Anson, Annie K. Powell.* *CrystEngComm*, **2009**, 11, 2084–2088.
7. **Kartik Chandra Mondal**, O. Sengupta, P. Dutta, M. Seehra, S. K. Nayak, Partha S. Mukherjee.* Three-Dimensional 3d–4f Heterometallic Polymers Containing both Azide and Carboxylate as Co-Ligands. *Inorg. Chim. Acta.*, **2009**, 362, 1913–1917.
6. **Kartik Chandra Mondal**, Oindrila Sengupta, Partha S. Mukherjee.* Synthesis and Characterization of A Rare Hemiacetate Bridged Incomplete Cu^{II} Dimer Cluster. *Inorg. Chem. Commun.*, **2009**, 12, 682–685.
5. **Kartik Chandra Mondal**, Partha S. Mukherjee.* Mn(II) Azido Chain using A New Amide Ligand: Synthesis, Crystal Structure and Variable Temperature Magnetic Behavior. *Synthesis and reactivity of Inorganic, Metal-Organic, and Nano-metal Chemistry*, **2007**, 37, 735–739.
4. **Kartik Chandra Mondal**, Partha S. Mukherjee.* Three New Cu–Azido Polymers and Their Systematic Interconversion: Role of the Amount of the Blocking Amine on the Structural Diversity and Magnetic Behavior. *Inorg. Chem.* **2008**, 47, 4215–4225.
3. **Kartik Chandra Mondal**, Oindrila Sengupta, M. Nethaji, Partha S. Mukherjee.* Assembling Metals (Co^{II} and Mn^{II}) with Pyridylcarboxylates in the Presence of Azide: Synthesis, Structural Aspects and Magnetic Behavior of Three Coordination Polymers. *Dalton Trans.* **2008**, 6, 767–775.
2. **Kartik Chandra Mondal**, Y. Song, Partha S. Mukherjee.* Self Assembly of A Mn₉ ([Mn₉O₇(H₂O)₃(L)₁₁(L')₂(L'')]) Nanoscopic Mixed-Valent Cluster: Synthesis, Crystal Structure and Magnetic Property, A SMM. *Inorg. Chem.* **2007**, 46, 9736–9742.
1. **Kartik Chandra Mondal**, Mike G. B. Drew, Partha S. Mukherjee.* Synthesis of A Mn₆ Cluster and Its Self-Assembly of An Azido-Bridged Polymer. *Inorg. Chem.* **2007**, 46, 5625–5629.

Declaration: I hereby declare that the particulars given herein are true to the best of my knowledge and belief.

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