PERSONAL PROFILE

PERSONAL DETAILS

Mr. Uttam Mandal



Assistant Professor,

Department of Physics, Bankura Sammilani College

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Education qualification: M.Sc, Persuing Ph.D

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Date of Joining: 06.04.2010

Area of Teaching: Mathematical Physics, Electrostatics, Magnetostatics, Quantum Mechanics, Electromagnetic Theory.

Research Interest: Material science

*List of Research Papers published in National/Internatial Journal*

*7. A novel one-dimensional thiocyanate-bridged cobalt(III) complex: synthesis, crystal structure characterization and Hirshfeld surface analysis. Uttam Mandal, Corrado Rizzoli, Bikash Chakraborty, Debasis Bandyopadhyay, Santanu Mandal, Acta Crystallography C Structural Chemistry 80 (2024).* [*https://doi.org/10.1107/S2053229624006375*](https://doi.org/10.1107/S2053229624006375)*.*

*6. Synthesis, crystal structure, Hirshfeld surface analysis, and characterization of a new 1-D dicyanamide-bridged polymeric Mn(III) complex. Uttam Mandal, Corrado, Rizzoli, Bikash Chakraborty, Swapnadip Roy, Debasis Bandyopadhyay, Santanu Mandal. Transition Metal Chemistry (2024).* [*https://doi.org/10.1007/s11243-024-00589-4*](https://doi.org/10.1007/s11243-024-00589-4)*.*

5. Synthesis, crystal structure, and characterization of two new end-to-end 1D pseudohalide bridged manganese(III) complexes. Uttam Mandal, Corrado Rizzoli, Bikash Chakraborty, Srikanta Karmakar, Santanu Mandal, Debasis Bandyopadhyay. Transition Metal Chemistry (2024). <https://doi.org/10.1007/s11243-023-00569-0>.

4. Synthesis, crystal structure, Hirshfeld surface analysis and characterization of two new mononuclear Ni(II) complexes. Uttam Mandal, Corrado Rizzoli, Bikash Chakraborty, Debasis Bandyopadhyay, Santanu Mandal. Journal of Molecular Structure 1302 (2024) 137420. <https://doi.org/10.1016/j.molstruc.2023.137420>.

3. A study on Transition Metal Complexes of the First Row Luminescent. Uttam Mandal.NeuroQuantology|July 2022|20(2022)| 3163-3170, doi:10.14704/nq.2022.20.8.NQ44346

*2. Synthesis, crystal structure, and antibacterial activity of manganese(III) and cobalt(III) complexes containing pentadentate Schiff bases of a common amine and thiocyanate. Santanu Mandal, Tinku Sen, Uttam Mandal, Dipankar Bhunia, Corrado Rizzoli, Debasis Bandyopadhyay. Journal of Coordination Chemistry 72 (2019) 3614–3624.* [*https://doi.org/10.1080/00958972.2019.1704275*](https://doi.org/10.1080/00958972.2019.1704275)*.*

1. Synthesis and crystal structure of some first row transition metals containing a common Schiff base. Uttam Mandal, Santanu Mandal, Bikash Chakraborty, Corrado Rizzoli, Debasis Bandyopadhyay. Polyhedron 177 (2020). <https://doi.org/10.1016/j.poly.2019.114320>.

***Book chapter publication***

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| --- | --- | --- |
| Title of the publication | Year of publication | Name of the of publisher ISSN/ ISBN No. |
| Synthesis, Spectral Characterization and Thermogravimetric Analysis of a New Manganese Schiff Base Metal Complex.Pg.no. 192-197. | 2024 | New Delhi Publishers, India ISBN 9788197 108761 (Print) | 9788197 108716 (eBook) |

***Papers Presented in National/International Seminars/Conferences /Workshop***

|  |  |  |  |
| --- | --- | --- | --- |
| Sl.No | Title of the invited lecture/paper presented | Title of Conference/Seminar with date | Organized by |
| 1 | Synthesis and crystal structure of Schiff base Cobalt complex. | A National Conference on “Recent Trends in Physics. 17.2.2020-18.2.2020. | Organized by Department of Physics ,Bankura University,Bankura |
| 2 | Synthesis and crystal structure of Schiff base Nickel complex | National Conference on “Frontiers of Material Science and Photonics:Issues and Developments” 5.3.2020-6.3.2020. | Organized by Department of Physics, SKBU. |
| 3 | Synthesis and crystal structure of Schiff base Copper(II) complex. | Recent Trends in Physiology and Healthcare Research for Salubrious Society. 18.11.2022- 20.11.2022 | Organized by Department of Chemistry, Bankura Christian College |
| 4 | Hirshfeld surface, two dimensional fingerprint plot and energy frameworks analysis of Schiff base cobalt complex. | Opportunities and Challenges in Biological Science and Sports Science.5.3.2023- 6.3.2023 | Organized by IQAC, Gushkara Mahavidyalaya |
| 5 | Synthesis, structural characterization of phenoxo-bridged binuclear copper(II) complex containing thiocyanate ligand. | Recent trends in physics & allied sciences.15.3.2023- 16.3.2023 | Organized by Department of Physics(UG &PG) Banwarilal Bhalotia College, Asansole. |
| 6 | Synthesis, Spectral Characterization and Thermogravimetric Analysis of a New Manganese Schiff Base Metal Complex | International Conference on Natural Sciences and Engineering for Sustainable Development (NSESD2024) 6-7.3.2024 | Organized by Centre for Organic Spintronics and Optoelectronics Devices (COSOD) Faculty of Science and Engineering, Kazi Nazrul University, Asansol West Bengal, India |

***Orientation Programmes/ Refresher Course/Short Term Courses/Workshop attended***

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| Sl.No | Name of the Course | Place | Duration |
| 1 | 98th OP | Human Resource development Centre, BU | 6.1.2015-2.2.2015 |
| 2 | 24th RC in Environmental Science | Human Resource development Centre,BU | 8.1.2016-28.1.2016 |
| 3 | Refresher Course in Physical science | Human Resource development Centre, Kannur University, Kannur District, Kerala - 670 002 | (14 Days) 9th  Octobr,2020 - 222nd October, 2020 |
| 4 | 2nd Workshop on Leadership Development Programme | Human Resource development Centre, NEHU,Shillong-793022 | 22.2.2021-27.2.2021 |
| 5 | “36th Online Short Term Course On E-Content Development.” | Human Resource development Centre ,Gujarat University | 28.5.2020-3.6.2020 |
| 6 | RC in Material Science and Nanotechnology. | Human Resource development Centre, NEHU,Shillong-793022 | 24.09.2021-08.10.2021 |
| 7 | “12th Online ShortTerm Course on Research Paper Writing” | Human Resource development Centre, Gujarat University | 24.5.2021-30.5.2021 |
| 8 | “8th Online Short Term Course on ICT” | Human Resource development Gujarat University | 14.6.2021-20.6.2021 |
| 9 | Online short term course in Human Rights & RTI | Human Resource development Centre, Kannur University, Kannur District, Kerala - 670 002 | 28.10.2022-3.11.2022 |
| 10 | Short Term Course on Research methodology. | UGC-HRDC, SAMBALPUR UNIVERSITY | 12.12.2022-17.12.2022 |
| 11 | Online short term course on Telemedicine and Digital Health. | UGC-MMTTC, NEHU, Shillong. | 04.3.2024 – 9.03.2024 |