

### Some selected publications

1. Karmakar, P. (2025), Influence of  $\sigma$  donation and  $\pi$  acceptance properties of spectator ligands on substitution reactions in bifunctional mononuclear platinum (II) complexes: Exploring reactivity pattern of antitumor compounds, *Chemistry*, 19, 20.
2. Karmakar, P. (2022), Transition metal based coordination complexes as catalysts for water oxidation: An overview, *Resonance*, 27, 1185.
3. Ghosh, D. and Karmakar, P. (2021), Insight into anti-oxidative carbohydrate polymers from medicinal plants: Structure-activity relationships, mechanism of actions and interactions with bovine serum albumin, *International Journal of Biological Macromolecules*, 166, 1022.
4. Karmakar, P. (2014), The effect of  $\sigma$ -donation on the interactions of cis-diaqua(2-aminomethylpiperidine)platinum(II) complex with biomolecules in aqueous medium: synthesis, kinetic and mechanistic study. *Transition Met. Chem.* 39, 727.
5. Karmakar, P. Ray, S. Nandi, D. Mandal, A. Mondal, S. Mallick, S. Bera B. K. and Ghosh, A. K. (2013), Kinetic studies on interaction of platinum(II) complexes with 'S' containing ligand in aqueous medium. *J. Solution Chem.*, 42, 441.
6. Karmakar, P. Ray, S. Mandal, A. Mondal, S. Mallick, S. Bera B. K. and Ghosh, A. K. (2013), Mechanistic and kinetic investigations on the interaction of model platinum(II) complex with ligand of biological significance in reference to the antitumour activity. *Synth. & React. in Inorg. Metal-Org. and Nano-Metal Chem.*, 43, 1563-1570.
7. Karmakar, P. Mallick, S. Mondal, S. Bera, B. K. Mandal, A. Mukhopadhyay S. K. and Ghosh, A. K. (2011), Kinetics and mechanism of the interaction of adenosine with cis-diaqua(cis-1,2-diaminocyclohexane)platinum(II) perchlorate in aqueous medium. *Int. J. Chem. Kinet.*, 43, 219.
8. Karmakar, P. Mallick, S. Bera, B. K. Mandal, A. Mondal, S. Mukhopadhyay S. K. and Ghosh, A. K. (2010), Mechanistic aspect of ligand substitution on cis-diaqua(cis-1,2-diaminocyclohexane)platinum(II) by glycine-L-leucine. *Transition Met. Chem.*, 35, 911.
9. Karmakar, P. Bera, B. K. Barik, K. L. Mukhopadhyay S. K. and Ghosh, A. K. (2010), Kinetics and mechanism of the interaction of DL-penicillamine with cis-diaqua(cis-1,2-diaminocyclohexane)platinum(II) perchlorate in aqueous medium. *J. Coord. Chem.*, 63, 2158.

**Published Books**

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