List of Publications

(1) A computational study towards understanding the separation of ions of potassium chloride microcrystal in water

(2) Is Dual Morphology of Rock-salt Crystals possible with a single additive? The answer is Yes, with Barbituric acid

(3) Photosensitization of Nanoparticulate TiO$_2$ Using Re(I)-polypyridyl Complex: Studies on Interfacial Electron Transfer in Ultrafast Time Domain

(4) Microwave assisted isomerization of alkenyl aromatics over solid base catalysts: An understanding through theoretical study.

(5) Does Bridging Geometry Influence Interfacial Electron Transfer Dynamics? Case of Enediol-TiO$_2$ System

(6) A computational approach towards predicting π-facial selectivity in sterically unbiased olefins: an evaluation of the relative importance of electrostatic and orbital effects

(7) Electrostatic origin towards the reversal of π-facial selectivity of 5,6-cis,exo-disubstituted bicyclic[2.2.2]oct-2-enes with m-chloroperbenzoic acid and diazomethane: a computational study

(8) Probing the influence of solvent effects on the conformational behavior of 1,4-diazacyclohexane systems

(9) What is the Minimum Number of Water Molecules Required to Dissolve a Potassium Chloride Molecule?

(10) Sensitization of Nanocrystalline TiO$_2$ anchored with pendant catechol functionality using a new tetracyanato ruthenium(II) polypyridyl complex.
List of Publications


(14) In Silico Studies towards Understanding the Interactions of the DNA base-pairs with protonated Linear/Cyclic Diamines Anik Sen, Debashis Sahu and Bishwajit Ganguly, Manuscript Revision, J. Phys. Chem. B.

(15) Probing the role of solvation in predicting the n-Facial Selectivity of 5-Fluoro-2-methyleneadamantane with per-acid: A Case Study Anik Sen and Bishwajit Ganguly, Communicated.

(16) Probing the Influence of Solvent Effects on the Conformational behavior of 1-Oxa-3-aza-cyclohexane System Anik Sen and Bishwajit Ganguly, Manuscript under preparation.

List of Conference/workshop Attended and Poster/oral presentation:

(1) Attended to the 3rd CRSI-RSC joint and 11th CRSI symposium on Chemical Sciences, held at NCL, Pune on February 5-8, 2009.

(2) Poster Presentation in the XIV Modern Trends in Inorganic Chemistry, held at Hyderabad Central University, India on December 10-13, 2011. Title: A Computational Approach to Study the Dissolution of Potassium Chloride: Single Molecule to Microcrystal.

(3) Poster Presentation in the 3rd Indo-German Conference on Modeling Chemical & Biological (Re)activity, held at NIPER & IISER Mohali (Punjab), India on 26th Feb. to 1st March, 2013. Title: A computational approach towards predicting π-facial selectivity of sterically unbiased olefins and role of solvation on the stereoselectivity.
A computational study toward understanding the separation of ions of potassium chloride microcrystal in water

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Is Dual Morphology of Rock-Salt Crystals Possible with a Single Additive? The Answer Is Yes, with Barbituric Acid**

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Photosensitization of nanoparticulate TiO₂ using a Re(t)-polypyridyl complex: studies on interfacial electron transfer in the ultrafast time domain†

Prasenjit Kar,* Tanmay Banerjee, Sandeep Verma,* Anik Sen,* Amitava Das,* Bishwajit Ganguly** and Hirenendra N. Ghosh‡

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Microwave assisted isomerization of alkenyl aromatics over solid base catalysts: an understanding through theoretical study†

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Does Bridging Geometry Influence Interfacial Electron Transfer Dynamics? Case of the Enediol-TiO2 System

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§Supporting Information

A computational approach towards predicting π-facial selectivity in sterically unbiased olefins: an evaluation of the relative importance of electrostatic and orbital effects

Anik Sen⁷, Goverdhan Mehta⁷,a,b, Bishwajit Ganguly⁷,a,b
Electrostatic origin towards the reversal of π-facial selectivity of 5,6-cis,exo-disubstituted bicyclic[2.2.2]oct-2-enes with m-chloroperbenzoic acid and diazomethane: a computational study

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Probing the influence of solvent effects on the conformational behavior of 1,4-diaza-cyclohexane systems

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What is the Minimum Number of Water Molecules Required to Dissolve a Potassium Chloride Molecule?

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Sensitization of Nanocrystalline TiO₂ Anchored with Pendant Catechol Functionality Using a New Tetracyanato Ruthenium(II) Polypyridyl Complex

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Effect of steric crowding on ion selectivity for calix-crown hybrid ionophores: experimental, molecular modeling and crystallographic studies†

Subrata Putra, Debdeep Malty, Anik Sen, E. Suresh, Bishwajit Ganguly² and Parimal Paul³

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First principle study towards the influence of Cd²⁺ on the morphology of sodium chloride

Ajeeet Singh, Anik Sen, Bishwajit Ganguly *
Probing the influence of pH dependent citric acid towards the morphology of rock salt: a computational study†

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