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Research Area: Conjugates of calixarenes & carbohydrates possessing variety of binding cores, Organic Synthesis; Coordination & Structural aspects, Structural & Functional Biomimetics for metalloproteins & metalloenzymes (Similar studies with hemi-calixarene like systems). Metal Ion & Molecular Recognition Properties of the Conjugates of Calixarenes & Carbohydrates Computational Evaluation of the structure and energetics of the species of recognition by the SENSOR molecule. Lectin & Glycosidases, Metal ion complexes as Artificial Chemical Nucleases, Metal ion up-take by apo-protein, Lectin glycobiology, Computational docking studies of the conjugates of carbohydrates & calixarenes with lectins and glycosidases

<https://www.chem.iitb.ac.in/~cprao/sc.html>