

## Dr. BASUDEV MAITY

### Specially appointed Assistant Professor

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### Education

2006 - 2012	Ph.D	Indian Institute of Science, Bangalore, India
2004 - 2006	M.Sc	University of Calcutta, Kolkata, India
2001 - 2004	B.Sc	University of Calcutta, Kolkata, India

### Professional experiences

2019 - Present	Assistant Professor	Tokyo Institute of Technology, Yokohama, Japan
2015 - 2018	Research staff	Tokyo Institute of Technology, Yokohama, Japan
2013 - 2015	JSPS postdoc	Tokyo Institute of Technology, Yokohama, Japan
2012 - 2013	Research associate	Indian Institute of Science, Bangalore, India

### Research interests

1. Protein engineering and crystallography
2. Bio-functional material design
3. Protein self-assembly
4. Artificial metalloenzymes and metalloproteins

### Selected list of publications

1. Artificial metalloenzyme based on protein assembly. B. Maity, M. Taher, S.Mazumdar, T. Ueno.; **Coord. Chem. Rev.** **2022**, in press.
2. Design of a gold clustering site in an engineered apo-ferritin cage. C. Lu , B. Maity, X. Peng, N. Ito, S. Abe, X. Sheng, T. Ueno, D. Lu. ; **Commun. Chem.**, **2022**, In press.
3. Controlled uptake of an iridium complex inside engineered apo-ferritin nanocages: study of structure and catalysis. M. Taher, B. Maity, T. Nakane, S. Abe, T. Ueno, S. Mazumdar. **Angew Chem Int Ed Engl.**, **2022**, 61, e2021166.
4. Single-molecule level dynamic observation of disassembly of the apo-ferritin cage in solution. B. Maity, Z. Li, K. Niwase, C. Ganser, T. Furuta, T. Uchihashi, D. Lu, T. Ueno. **Phy. Chem. Chem. Phy.** **2020**, 22, 18562-18572.
5. Observation of gold sub-nanocluster nucleation within a crystalline protein cage. B. Maity, S. Abe, T. Ueno. **Nature commun**, **2017**, 8, 14820.
6. Immobilization of two organometallic complexes into a single cage to construct protein-based microcompartment. B. Maity, K. Fukumori, S. Abe, T. Ueno. **Chem. Commun.** **2016**, 52, 5463-5466.