

Name: **Dr. Rahul Banerjee**

Division: Physical Chemistry

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Education and experience

- PhD (2006)
- Post-doc (2006-2008)
- Scientist (2008-present)

Achievements

- Recipient of CSIR- Young Scientist Award 2011
- Recipient of NASI- Young Scientist Platinum Jubilee Award 2011
- Recognized as a Ph.D supervisor from University of Pune (2010-2018)
- Young Associate of the Indian Academy of Sciences (2009- 2012)

Research subjects:

- Physical Chemistry
- Materials Science

Research Areas

- Hydrogen Storage and Carbon dioxide sequestration in Metal Organic Frameworks.
- High throughput synthesis of Metal Organic Frameworks.
- Synthesis of novel Metal Organic Frameworks by synthesizing new organic functional link.
- Crystal engineering, intermolecular interactions, hydrogen bonding, host-guest chemistry, polymorphism and pseudopolymorphism of different organic molecules specially APIs.

Recent publications

- Pradip Pachfule, Yifei Chen, Subash Chandra Sahoo, Jianwen Jiang and **Rahul Banerjee** *Chemistry of Materials* **2011**, 23 (11), 2908–2916.
- Subash Chandra Sahoo, Tanay Kundu and **Rahul Banerjee** *J. Am. Chem. Soc.*, **2011**, 133 (44), 17950–17958
- Tamas Panda, Pradip Pachfule and **Rahul Banerjee** *Chem. Commun.*, **2011**, 47 (27), 7674 – 7676.
- Pradip Pachfule, Yifei Chen, Jianwen Jiang and **Rahul Banerjee** *Chem. Eur. J.*, **2012**, 18, 688-694.
- Chandan Dey, Tanay Kundu, and **Rahul Banerjee** *Chem. Commun.*, **2012**, 48, 266-268.