

## List of Publications

### Included in thesis

1. Facile C–S coupling reaction of aryl iodide and thiophenol catalyzed by Cu-grafted furfural functionalized mesoporous organosilica  
**John Mondal**, Arindam Modak, Arghya Dutta and Asim Bhaumik  
*Dalton Transactions* 40 (2011) 5228-5235.
2. Highly ordered acid functionalized SBA-15: Novel organocatalyst for preparation of Xanthenes  
Mahasweta Nandi, **John Mondal**, Krishanu Sarkar, Yusuke Yamauchi and Asim Bhaumik  
*Chemical Communications* 47 (2011) 6677-6679. **Highlighted in SYNFACTS** 9 (2011) 1028-1028.
3. Highly efficient mesoporous base catalyzed Knoevenagel condensation of different aromatic aldehydes with malononitrile and subsequent noncatalytic Diels–Alder reactions  
**John Mondal**, Arindam Modak and Asim Bhaumik  
*Journal of Molecular Catalysis: A* 335 (2011) 236-241.
4. Fe<sub>3</sub>O<sub>4</sub>@ mesoporous SBA-15: A robust and magnetically recoverable catalyst for one-pot synthesis of 3,4-dihydropyrimidin-2(1*H*)-ones via Biginelli reaction  
**John Mondal**, Tapas Sen and Asim Bhaumik  
*Dalton Transactions* 41 (2012) 6173-6181.
5. One-pot Thioetherification of Aryl halides using Thiourea and Benzyl bromides in water catalyzed by Cu-grafted furfural functionalized mesoporous SBA-15  
**John Mondal**, Arindam Modak, Arghya Dutta, Sohini Basu, Shambhu Nath Jha, Dibyendu Bhattacharyya and Asim Bhaumik

*Chemical Communications* 48 (2012) 8000-8002. **Highlighted in CHEMINFORM** 43 (2012).

**Not included in thesis**

6. Triazine functionalized ordered mesoporous organosilicas as a novel organocatalyst for the facile one-pot synthesis of 2-amino-4H-chromene under solvent-free conditions  
**John Mondal**, Arindam Modak, Mahasweta Nandi, Hiroshi Uyama and Asim Bhaumik  
*RSC Advances* 2 (2012) 11306-11317.
7. Pd-grafted periodic mesoporous organosilica: an efficient heterogeneous catalyst for Hiyama and Sonogashira coupling, and cyanation reactions  
Arindam Modak, **John Mondal** and Asim Bhaumik  
*Green Chemistry* 14 (2012) 2840-2855.
8. Direct amide bond formation from carboxylic acids and amines using activated alumina balls as a new, convenient, clean, reusable and low cost heterogeneous catalyst  
Sabari Ghosh, Asim Bhaumik, **John Mondal**, Amit Mallik, Sumita Sengupta (Bandyopadhyay) and Chhanda Mukhopadhyay  
*Green Chemistry* 14 (2012) 3220-3229.
9. Acid Functionalized Mesoporous Silica as Efficient Organocatalysts for Syntheses of Xanthenes  
**John Mondal**, Mahasweta Nandi, Arindam Modak and Asim Bhaumik  
*Journal of Molecular Catalysis: A* 363-364 (2012) 254-264.
10. Synthesis and temperature induced morphology control in a hybrid porous iron phosphonate nanomaterial and its excellent catalytic activity for benzimidazole synthesis  
Arghya Dutta, **John Mondal**, Astam kumar Patra and Asim Bhaumik

*Chemistry - A European Journal* 18 (2012) 13372-13378.

11. Highly efficient base catalysis and sulfide oxidation reactions over new functionalized mesoporous polymers

Noor Salam, Paramita Mondal, **John Mondal**, Anupam Singha Roy, Asim Bhaumik and S. M. Islam

*RSC Advances* 2 (2012) 6464 – 6477.

12. Porphyrin based porous organic polymers: novel synthetic strategy and exceptionally high CO<sub>2</sub> adsorption capacity

Arindam Modak, Mahasweta Nandi, **John Mondal** and Asim Bhaumik

*Chemical Communications* 48 (2012) 248-250. **Top 10 downloaded articles**

13. A new periodic mesoporous organosilica containing diimine-phloroglucinol, Pd(II)-grafting and its excellent catalytic activity and trans-selectivity in C–C coupling reactions

Arindam Modak, **John Mondal**, Vinod K. Aswal and Asim Bhaumik

*Journal of Materials Chemistry* 20 (2010) 8099-8106.

14. Triazine functionalized ordered mesoporous polymer: a novel solid support for Pd-mediated C–C cross-coupling reactions in water

Arindam Modak, **John Mondal**, Manickam Sasidharan and Asim Bhaumik

*Green Chemistry* 13 (2011) 1317-1331. **Highlighted in CHEMINFORM** 42 (2011).

15. One-pot efficient Heck coupling in water catalyzed by palladium nanoparticles tethered into mesoporous organic polymer

**John Mondal**, Arindam Modak and Asim Bhaumik

*Journal of Molecular Catalysis: A* 350 (2011) 40-48.

16. New mesoporous magnesium-aluminum mixed oxide and its catalytic activity in liquid

phase Baeyer-Villiger oxidation reaction

Manidipa Paul, Nabanita Pal, **John Mondal**, Manickam Sasidharan and Asim Bhaumik

*Chemical Engineering Science* 71 (2012) 564-572.

17. Selective oxidation of sulfides and oxidative bromination of organic substrates catalyzed by polymer anchored Cu(II) complex

S. M. Islam, Anupam Singha Roy, Paramita Mondal, Kazi Tuhina, Manir Mobarak and

**John Mondal**

*Tetrahedron Letters* 53 (2012) 127-131.

18. A convenient sol-gel route for the synthesis of salicylate-titania nanocomposites having visible absorption and blue luminescence

Atanu Mitra, Asim Bhaumik, Mahasweta Nandi, **John Mondal** and B.K. Roy

*Journal of Solid State Chemistry* 182 (2009) 1200-1205.