List of publications

Papers Included in the Thesis

[1] Hybrid porous Tin(IV) Phosphonate: an efficient catalyst for adipic acid synthesis and a very good adsorbent for CO₂ uptake.  
A. Dutta, M. Pramanik, A. K. Patra, M. Nandi, H. Uyama and A. Bhaumik,  

A. Dutta, A. K. Patra and A. Bhaumik,  

A. Dutta, A. K. Patra, S. Dutta, B. Saha and A. Bhaumik,  

A. Dutta, J. Mondal, A. K. Patra and A. Bhaumik,  

Papers Not Included in the Thesis

A. Dutta, M. Nandi, M. Sasidharan and A. Bhaumik,  
Chemphyschem., 2012, 13, 3218-3222.

J. Mondal, A. Modak, A. Dutta, S. Basu, S. N. Jha, D. Bhattacharyya and A. Bhaumik,  

[7] Unprecedented CO₂ uptake over highly porous N-doped activated carbon monoliths prepared by physical activation.  
M. Nandi, K. Okada, A. Dutta, A. Bhaumik, J. Maruyama, D. Derks and H. Uyama,  

[8] Highly ordered mesoporous TiO₂–Fe₂O₃ mixed oxide synthesized by sol-gel pathway: an efficient and reusable heterogeneous catalyst for dehalogenation reaction.  
A. K. Patra, A. Dutta and A. Bhaumik,  


[10] Facile C-S coupling reaction of aryl iodide and thiophenol catalyzed by Cu-grafted furfural functionalized mesoporous organosilica.


[13] Porous silica nanoparticle with mesoscopic void space for the domino intermolecular aerobic oxidative synthesis of novel β,β′-diketoenamines.

[14] Nanopores in semiconducting oxides: optoelectronic and solar cell applications. *(Invited Review Article)*
**A. Dutta** and A. Bhaumik, *J. Nanosci. Nanotechnol.*, 2012 (Accepted)

[15] Fine dispersion of the BiFeO₃ nanocrystallites over highly ordered mesoporous silica material and its photocatalytic property.

[16] Site-selective multicomponent synthesis of densely substituted 2-oxo dihydropyrroles catalyzed by clean, reusable and heterogeneous TiO₂ nanopowder.