Position: Post-doctoral fellow
Affiliation: Physics Dept. University of Rome "La Sapienza", P.le A. Moro 2, I-00185 Rome, Italy
Office: Ed. Marconi , Room 339 B
Telephone: +39 06 4969 4282
Email:*santoshcup6ATgmailDOTcom*

Current Position: postdoc at the University of Texas at Austin, click here

Brief

I am a post-doctoral fellow in Prof. Giovanni Ciccotti research group at Physics department, University of Rome, Italy. I have joined this group in November 2012.

Curriculum Vitae

Please click HERE

Research Interests

Equilibrium and Non-equilibrium Statistical Physics Molecular Dynamics Langevin Dynamics
Grand Canonical Monte-Carlo

Current Research Projects

Study of force generation of polymerizing bio-filament bundle on a non-stationary wall under non-equilibrium conditions. The project is in collaboration with Prof. Carlo Pierleoni and Prof. Jean-Paul Ryckaert.

Publications

Google Scholar page: click here

1. **Mogurampelly Santosh** and Prabal K Maiti; "Force Induced DNA Melting", *J. Phys.: Condens. Matter* **21** (2009) 034113.
Citations: 19 (Web of Science)

2. **Mogurampelly Santosh**, Prabal K Maiti and A. K. Sood; "Elastic properties of Boron Nitride Nanotube and comparison with Carbon Nanotube ", *J. Nanosci. Nanotechnol.* **9**, 5425-5430 (2009).
Citations: 8 (Web of Science)

3. **Mogurampelly Santosh** and Prabal K Maiti; " Structural Rigidity of Paranemic and Juxtapose DNA Nanostructures ", *Biophys. J.*, **101**

(6), 1393-1402 (2011)
. Citations: 6 (Web of Science)

4.
Mogurampelly Santosh
, Swati Panigrahi, Dhananjay Bhattacharyya, A. K. Sood and Prabal K Maiti; "
Unzipping and binding of small interfering RNA with single walled Carbon Nanotube: a platform for small interfering RNA delivery
",
J. Chem. Phys.
136
, 065106 (2012)
Citations: 5 (Web of Science); Also selected by Virtual Journal of Biological Physics Research; Vol 23, Issue 4, Feb 15, 2012 and Virtual Journal of Nanoscale Science & Technology; Vol 25, Issue 9, Feb 27, 2012

5. Bidisha Nandy,
Mogurampelly Santosh
and Prabal K Maiti; "
Interaction of Nucleic Acids with Carbon Nanotubes and Dendrimers
",
J. Biosci.
,
37
(3), 457-474 (2012).
Citations: 4 (Web of Science)

6.
Santosh Mogurampelly
, Swati Panigrahi, Dhananjay Bhattacharyya, A. K. Sood and Prabal K Maiti; "
Unraveling siRNA Unzipping Kinetics with Graphene
",
J. Chem. Phys.
137
, 054903 (2012).
Citations: 1 (Web of Science);
(Selected as the editor's choice 2012)

7. **Santosh Mogurampelly** and Prabal K Maiti; "Translocation and encapsulation of siRNA inside carbon nanotubes ", *J. Chem. Phys.* **138**, 034901 (2013).
Citations: 0 (Web of Science); (Image from this article was selected for the coverpage)

8. Sachin Rama Chaudhari, **Santosh Mogurampelly**, and N. Suryaprakash; "Engagement of CF_3 Group in N–H···F–C Hydrogen Bond in the Solution State: NMR Spectroscopy and MD Simulation Studies ", *J. Phys. Chem. B* , **117** (4), 1123-1129 (2013).

9. **Santosh Mogurampelly,** Bidisha Nandy, Roland R Netz and Prabal K Maiti; "Elasticity of DNA and the effect of dendrimer binding ", *Eur. Phys. J. E* (2013) 36: 68