

### List of Publications

1. Emergent hybrid synchronization in coupled chaotic systems; **E. Padmanaban**, Stefano Boccaletti, and S. K. Dana; *Phys. Rev. E*, **91**, Issue 2, 022920 (2015).
2. Control of partial synchronization in chaotic oscillators; R. Banarjee, **E. Padmanaban** and S.K. Dana; *PRAMANA*, **84**, No.2, pp.203–215(2015)
3. Anomalous behaviour of the bis(benzimidazolium)butane [2]pseudorotaxanes of dibenzo-24-crown-8: a comparative study of methane, ethane, propane and butane bis(benzimidazolium)alkane]dibenzo-24-crown-8 systems with variable spacers; Sabari Ghosh, Ann Marie Schmiedekamp, **E. Padmanaban**, Ray J. Butcher, Tandrima Chaudhuri, Nina Rao and Chhanda Mukhopadhyay; *J. of Inclusion Phenomena and Macrocyclic Chemistry*, **81**, Issue3-4, pp.321-340(2015).
4. A 2,2'-bis(benzimidazolium)-dibenzo[24]crown[8] rigid pseudorotaxane system; Sabari Ghosh, Tandrima Chaudhuri, Ann Marie Schmiedekamp, **E. Padmanaban** and Chhanda Mukhopadhyay ; *Tetrahedron*, **70**, Issue 38, pp. 6885–6893(2014).
5. Quasi-synchronization of coupled chaotic systems; **E. Padmanaban** and S.K. Dana; International Conference on Nonlinear Dynamics (**DDAP08**) at IIT-M, Chennai[2014].
6. Targeting And Control Of Synchronization In Chaotic Oscillators; **E. Padmanaban**, Ranjib Banerjee and Shyamal Kumar Dana; *International Journal of Bifurcation and Chaos*, Vol. 22, No. 7 (2012) 1250177 (12 pages).
7. Design and Synthesis of Regioisomeric Triazole based Peptidomimetic Macrocycles and Their Dipole Moment Controlled Self-Assembly; Abhijit Ghorai, **E. Padmanaban**, Chaitali Mukhopadhyay, Basudeb Achari and Partha Chattopadhyay; *Chem Comm*, **48**, 2012, 11975-11977.
8. Enhancing synchrony in chaotic oscillators by dynamic relaying; Ranjib Banerjee, Dibakar Ghosh, **E. Padmanaban**, R. Ramaswamy, L. M. Pecora, and Syamal K. Dana.; *Physical Review E*, **85**, 027201 (2012).
9. Engineering synchronization of chaotic oscillators using controller based coupling design; **E. Padmanaban**, C.Hens, S.K.Dana.; *CHAOS (American Institute of Physics)*, **21**, 013110 (2011).
10. Network of coupled chaotic oscillators using NOLC based coupling design; **E. Padmanaban** and S.K. Dana. Sixth National Conference of nonlinear system and dynamics [**NCNSD 2011**], Bharathidasan University, Thiruchi.

11. Effective Suzuki–Miyaura Arylation and Sonogashira Aryl Alkynylation on N-Heteroaromatic Cations: Synthesis of Substituted Pyridine-Fused Cationic Heterocycles; Rupankar Paira, Krishnendu B. Sahu, Shyamal Mondal, Arindam Maity, Abhijit Hazra, Subhendu Naskar, Pritam Saha, **E. Padmanaban**, Sukdeb Banerjee and Nirup B. Mondal; *SYNTHESIS*, 2011, No. 18, pp. 3006–3014.
12. Simultaneous Parallel and Antiparallel Self-Assembly in a Triazole/Amide Macrocycle Conformationally Homologous to D-,L-r-Amino Acid Based Cyclic Peptides: NMR and Molecular Modeling Study; Abhijit Ghorai, Anindita Gayen, Goutam Kulsi, **E. Padmanaban**, Aparna Laskar, Basudeb Achari, Chaitali Mukhopadhyay, and Partha Chattopadhyay., *Organic Letters*, 2011, 13 (20), pp 5512–5515.
13. Engineering synchronization of chaotic oscillators; **E.Padmanaban** and S.K.Dana, *AIP Proc.* Vol.1339, p.236 (2011).
14. Basic alumina supported one-pot synthesis of structurally diverse pyridine/quinolinine-fused novel diazepanium, diazocanium, imidazodilinium and tetrahydro-pyrimidiniums; Ripankar Paira, arindam Maity, Shyamal Mondal, Subhendu Naskar, Krishnendu B. Sahu, Pritam Saha, Abhijit Hazra, **E.Padmanaban**, Sukdeb Banerjee, Nirup B. Mondal; *Tetrahedron Letters*, Vol.52, No.14, pp. 1653-1657 (2011).
15. Design of coupling for mixed synchronization in chaotic oscillators; S.K. Dana, **E. Padmanaban**, R. Banerjee, P.K. Roy and I. Grosu ; *International Symposium on in Signals, Circuits and Systems, 2009. ISSCS 2009.*, vol., no., pp.1-4, 9-10 July 2009.
16. Designing coupling for synchronization and amplification of chaos; I.Grosu, **E.Padmanaban**, P.K.Roy, S.K.Dana; *Physical Review Letters*, **100**,234102 (2008).