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(Synthesis of new heterocyclic compounds of biological and medicinal importance)
Research Experience : 11 years
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List of Publications :

1. Heteroannulation through combined Palladium Catalyzed and Frilled-Crafts Reactions Strategy: Synthesis of 3-Alkylidene Isoindolin-1-ones, N. G. Kundu, M. W. Khan and Rupa Mukhopadhyay, **Tetrahedron**, **1999**, 55, 12361-12376.
2. Heteroannulation through copper catalysis: a novel cyclization leading to an unusual formation of 2-arylquinoxalines, Rupa Mukhopadhyay and Nitya G. Kundu, **Tetrahedron Lett.** **2000**, 41, 9927-9930.
3. A Highly Regio and Stereoselective Novel Route to (E)-2-Alkyl(Aryl)idene 1,2,3,4 – tetrahydroquinoxalines Through a Palladium – Catalyzed Arylation and Concurrent Heteroannulation Process, Rupa Mukhopadhyay and Nitya G. Kundu, **Synlett**, **2001**, 1143-1145.
4. Isoindolinones (Phthalimidines), Nitya G. Kundu, M. W. Khan and Rupa Mukhopadhyay, **J. Indian Chem Soc.** **2001**, 78, 671 – 688.
5. (Z) – 3 – Acetonylidene – 2,3 – dihydro – 1 H – isoindolin-1-one, K. Chowdhury, R. Mukhopadhyay, M. Mukherjee, C. K. Broder and N. G. Kundu, **Acta Cryst**, **2001**, E57, o421 – o423.
6. 2 – p – Toluoylquinoxaline, K. Chowdhury, R. Mukhopadhyay, M. Mukherjee, C. K. Broder and N. G. Kundu, **Acta Cryst**, **2001**, E57, o794 – o795.
7. A series of three (E)–2–alkylidene-1,4–di–p–tosyl–1,2,3,4–tetrahydroquinoxaline compounds, S. Banerjee, A. K. Mukherjee, R. Mukhopadhyay, N. G. Kundu and A J. Welch, **Acta Cryst**, **2001**, C57, 861 – 864.

8. A Convenient and Highly Regio and Stereoselective Method for the Synthesis of (E)-3-Alkylidene Isobenzofuran-1(3H)-ones (Phthalides), Rupa Mukhopadhyay and Nitya G. Kundu, ***Tetrahedron***, **2001**, 57, 9475 – 9480.

9. Synthesis, spectroscopic and X – ray structure analyses of two N – [(3' – aryl) prop – 2' – ynyl] – N, N' – 1,2 – phenylene di – p – tosylamides, S.Ghosh, R. Mukhopadhyay, M. Helliwell and A. K. Mukherjee, ***Z. Kristallogr.***, **2006**, 740-745.

10. Two N-[(3'-4-aryl)prop-2'-ynyl]-N,N'-1,2-phenylenedi-p-tosylamides: synthesis, spectroscopic and X-ray structural studies, K. Chowdhury, M. Mukherjee, R. Mukhopadhyay, M. Helliwell and A. K. Mukherjee, ***Z.Kristallogr.***, **2007**, 99-104.

11. Two (E)-2-arylidene-1,4-di-p-tosyl-1,2,3,4-tetrahydroquinoxaline compounds: supramolecular frameworks built with C-H...O and C-H... π (arene)hydrogen bonds and π - π stacking interactions, Soumen Ghosh, Rupa Mukhopadhyay, Madeleine Helliwell and Alok K. Mukherjee, ***Acta Cryst.***, **2007**, C63, o496-o500.

12. Nonradiative inter- and intramolecular energy transfer from the aromatic donor anisole to a synthesized photoswitchable acceptor system, Munmun Bardhan, Sudeshna Bhattacharya, Tapas Misra, Rupa Mukhopadhyay, Asish De, Tapan Ganguly, ***Spectrochimica Acta Part A*** 75, **2010**, 647-655.