Dr. Tapas Kumar Mandal

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PERSONAL INFORMATION

Ph. D.:	2012, Jadavpur University, Jadavpur, Kolkata – 32
Thesis Title:	Synthesis and Transformation of Benzopyran and Benzothiopyran Derivatives
Thesis Supervisor:	Professor (Dr.) Asok Kr. Mallik Dept. of Chemistry, Jadavpur University
Specialization:	Organic Chemistry
Area of Interest:	Synthesis of heterocycle compounds under green methods and study their biological importance, Study of heavy metals in
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PUBLICATIONS:

1. Mallik, A.K.; Pal, R.; **Mandal, T.K.** Facile formation of bis(3-indolyl)methylarenes by iodine-catalysed reaction of indole with α,α′-bis(arylmethylene)-ketones and α-substituted arylmethyleneketones in dry ethanol. *Indian J. Chem.* **2007**, 46B, 2056-2059.

2. Pal, R.; **Mandal, T.K.**; Mallik, A.K. Base-catalysed cyclocondensation of α,α′-bis(arylmethylene)cyclohexanones with thiourea: Formation of *E*-8-(arylmethylene)-4-aryl-1,2,3,4,5,6,7,8-octahydrobenzo[*d*]pyrimidine-2-thiones. *J. Indian Chem. Soc.* **2009**, 86, 402-405.

3. Pal, R.; **Mandal, T.K.**; Mallik, A.K. An efficient synthesis of *E*-2-amino-4-aryl-8-(arylmethylene)-5,6,7,8- tetrahydrobenzo[*d*]pyrimidines anf their lower analogues, *J. Indian Chem. Soc.* **2010**, 87, 711-715.

4. **Mandal, T.K.**; Pal, R.; Mondal, R.; Mallik, A.K. Facile condensation of aromatic aldehydes with chroman-4-ones and 1-thiochroman-4-ones catalysed by amberlyst-15 under microwave irradiation condition. *E-Journal of Chemistry.* **2011**, 8(2), 863-869.

5. **Mandal, T.K.**; Pal, R.; Patra, A.; Mallik, A.K. *trans*-2-Phenyl-4-thiophenoxy-3,4-ihydro-2*H*-1-benzothiopyran. *Molbank.* **2011**, M719. [doi:10.3390/M719]

6. **Mandal, T.K.**; Pal, R.; Mondal, R.; Dev, S.V.; Mallik, A.K. NBS Oxidation of *E*-3-Benzylidenechromanone to 3-(α-Hydroxybenzyl)-chromones and 3-Benzoylchromones. *Org. Prep. Proced. Int.* **2011**, 43, 467–474.

7. Pal, R.; **Mandal, T.K.**; Mallik, A.K. Iodine-catalysed conjugate addition of indole with α-cinnamylideneketones: Formation of β-(3-indolyl)-α, β-dihydro-α-cinnamylideneketones and bis(3-indolyl) methylbenzene. *Indian J. Chem.* **2011**, 50B, 619-623.

8. Pal, R.; **Mandal, T.K.**; Guha, C.; Mallik, A.K. Amberlyst-15 catalysed microwave assisted cross-aldol condensation betweenketones and aldehydes under solvent free condition. *J. Indian Chem. Soc.* **2011**, 88, 711-717.

9. **Mandal, T.K.** An Innova-tiveGreen Methodology for Synthesis of Benzylidene and Cinnamylidene Derivatives of Some Hemicyclic and Heterocyclic Ketones. *Green Chemistry: From laboratory to Industry*. **2012**, 74-79. [*ISBN: 978-81-922961-3-5*]

10. **Mandal, T.K.**; Pal, R.; Ghosal, D.; Patra, A.; Mallik, A.K. An Expeditious Synthesis of cis-2-(Aroylmethyl)-4-phenylthiochromans by Iodine Catalyzed Combination of Thiophenol with Cinnamylideneacet-ophenones. Synlett. 2012, 23 (17), 2459-2462.

11. Mondal, R.; **Mandal, T.K.**; Mallik, A.K. Simple synthesis of a new family of 22- to 28-membered macrocycles containing two chalcone moieties. ARKIVOC 2012 (ix) 95-110.

12. Mondal, R.; **Mandal, T.K.**; Mallik, A.K. An expeditious and safe synthesis of some Exocyclic - Unsaturated Ketones by Microwave-Assisted Condensation of Cyclic Ketones with Aromatic Aldehydes over Anhydrous Potassium Carbonate. Organic Chemistry International, 2012, Article ID 456097.

13. **Mandal, T.K.** Biological importance of 4-H-1-benzopyran and derivatives. Prajnan O Sadhona - A Science Annul, 2015, 2, 179-189. [ISSN: 2348-7410]

14. **Mandal, T.K.** Recent Applications of Iodine in Organic Synthesis. Prajnan O Sadhona - A Science Annul, 2014, 1, 71-86. [ISSN: 2348-7410]

15. **Mandal, T.K.** Chemistry of Synthetic Perfumes. Boson - A Science Annual, 2014, 1, 38-42. [ISSN: 2349-2686]

16. **Mandal, T.K.**; Sepay, N.; Chaterjee, N.; Mallik, A.K. Novel results from the sodium borohydride reduction of E-3-benzylidenechromanone epoxides in methanol: formation of an interesting class of chromone derivedmethoxydiols. J. Indian Chem. Soc. 2013, 90, 1805-1813.

17. **Mandal, T.K.**; Pal, R.; Mondal R.; Dey, S.P.; Mallik, A.K. Schmidt Reaction of E-3-Benzylidenechromanones and E-3-Benzylidene-thiochromanones. Journal of Chemistry, 2013. [Article ID 392128, 5 pages, http://dx.doi.org/10.1155/2013/392128]