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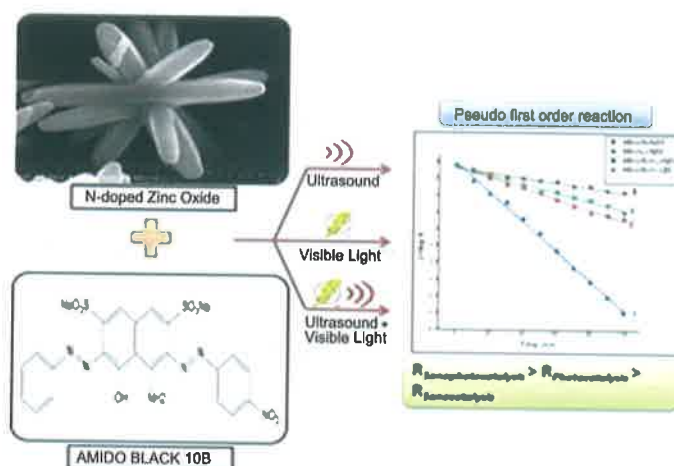
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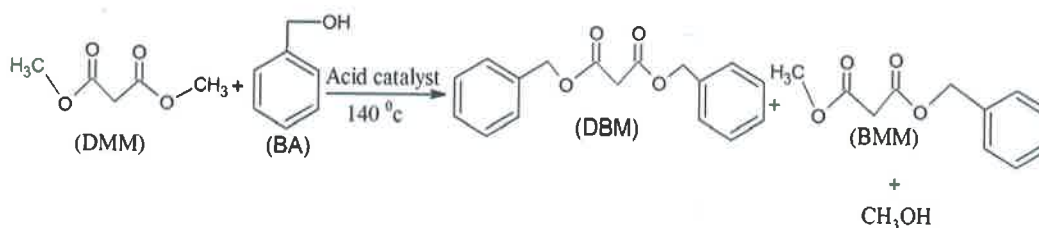
Papers

- 1335 **Microwave-assisted synthesis of nitrogen-doped ZnO nanoparticles: Characterization and its comparative study on sonocatalytic, photocatalytic and sonophotocatalytic degradation of amido black** Nano rods like N-doped ZnO catalyst has been used for the degradation of amido black-10B. Experimental kinetic data follows the pseudo-first order model in photocatalytic, sonocatalytic and sonophotocatalytic processes, with higher rate constant for sonophotocatalysis.



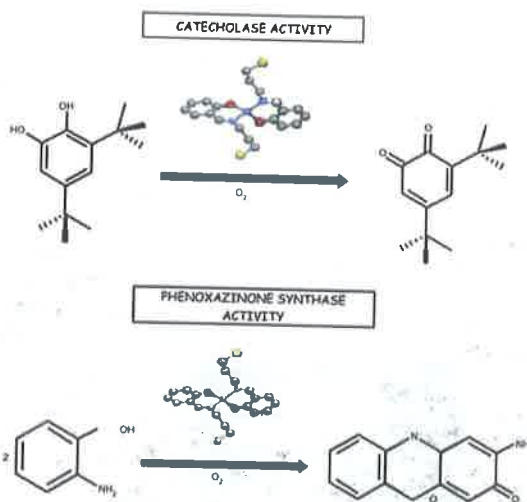
Srishti Kumawat, Nutan Salvi, Kiran Meghwal, Rakshit Ameta &, Chetna Ameta*

- 1344 **Kinetic studies on liquid phase transesterification of dimethyl malonate with benzyl alcohol over modified ceria as efficient solid acid catalysts** Dibenzyl malonate esters were synthesized using ceria based solid acid catalysts by transesterification reaction. Kinetic experiments confirm that sulphated-ceria-zirconia SCZ catalytic system was efficient and facile.



Venkatesh & S Z Mohamed Shamshuddin*

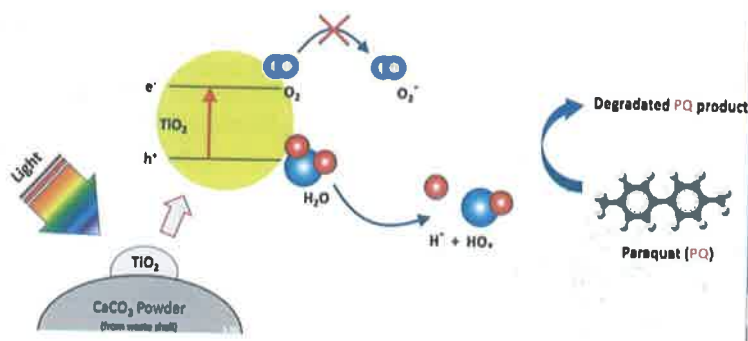
- 1351 **C-S bond cleavage influenced by metal coordination in Zn(II) bound Schiff base complex: synthesis, structural characterization, catecholase and phenoxazinone synthase activities** A new zinc(II) Schiff base complex (**1**) crystallizes in $P2_1/c$ space group with monoclinic crystal system. Complex **1** is found to be both catecholase and phenoxazinone synthase active in MeOH at room temperature with turn over numbers 4.31×10^2 and $5.27 \times 10^5 \text{ h}^{-1}$, respectively.



Ayon Kanti Ghosh, Arnab Chatterjee, Sarat Chandra Kumar, Chandra Shekhar Purohit & Rajarshi Ghosh *

Notes

- 1358 **Photocatalytic studies using a very low surface area catalyst: TiO_2 over CaCO_3 from waste shell (*Pomacea canaliculata*) in paraquat degradation** The prepared $\text{TiO}_2/\text{CaCO}_3$ photocatalyst with a very low surface area reduces the amount of paraquat in solution by more than 50%. Radical testing and FTIR analysis show that the paraquat degradation in the presence of the photocatalyst involves $\bullet\text{OH}$ radicals.



Senee Kruanetr & Ratchaneekorn Wanchanthuek*

- 1365 Guide to Authors

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