## An Efficient Green Catalyst for Chemo-Selectiveoxidative Coupling of Thiols

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**Abstract :** A green and efficient method for oxidation of thiols to the corresponding disulfides is reported using free nano-iron oxide in the H2O2 and methanol as solvent at room tempereture. H2O2 is anoxidant for S-S coupling variety aromatic of thiols to corresponding disulfide in the presence of supported iron oxide as recoverable catalyst. This reaction is clean, fast, mild and easy work-up with no side reaction.

Keywords : thiol, disulfide, free nano-iron oxide, H2O2, oxidation, coupling

Conference Title : ICACBE 2014 : International Conference on Applied Chemistry and Biological Engineering

**Conference Location :** Copenhagen, Denmark

Conference Dates : June 12-13, 2014