Declaration by the Candidate

The work presented in this thesis is carried out in the Department of Chemistry, University of Pune during July 2006 to November 2010 and in Department of Chemistry, Indian Institute of Technology, Kanpur, during December 2010 to November 2011 (as non-degree student). I, hereby, solemnly and sincerely declare that this submission is my own work and has not been submitted for any other degree in the University of Pune or elsewhere. It is further declared that the present thesis does not contain materials previously published. The intellectual content of this thesis genuinely represents an original work carried out by the author. Any contribution made to the research by others, in collaborations, has been explicitly cited and acknowledged throughout the thesis.

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