

LIST OF TABLES

Table No.	Title	Page No.
Table I.A.1.	Some important methods of GO preparation	6
Table I.B.1.	Optimization of the reaction conditions for the preparation of 1,4-Benzothiazine	23
Table I.B.2.	Synthesis of substituted benzothiazines	25
Table I.C.1.	Optimization of the reaction conditions for transamidation of amides	46
Table I.C.2.	Transamidation of various amides using amines	47
Table II.A.1.	List of works from our laboratory on resin based materials	72
Table II.B.1.	Optimization of the reaction conditions for <i>O</i> -allylation	83
Table II.B.2.	Pd/CuO@ARF catalyzed Tsuji-Trost allylation of phenolic compounds	84
Table II.B.3.	Synthesis of mono- and bis-allylated amines	86
Table II.B.4.	Synthesis of various allyl thioethers	87
Table II.B.5.	Recyclability of Pd/CuO@ARF in Tsuji-Trost allylation of phenolic substances	88
Table II.B.6.	Pd:Cu atomic % ratios of fresh and recovered Pd/CuO@ARF catalysts from EDS attached with SEM	90
Table III.1.	Optimization of the reaction conditions for one pot three component A ³ coupling	119
Table III.2.	Formation of a series of propargylamine from various salicylaldehyde substrates	120