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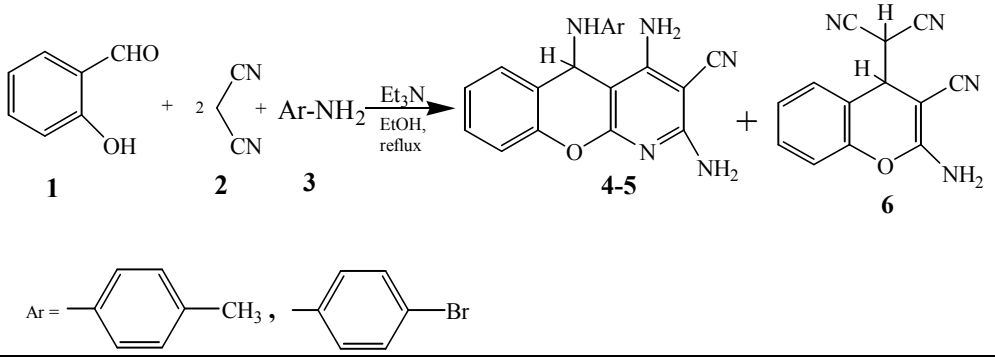
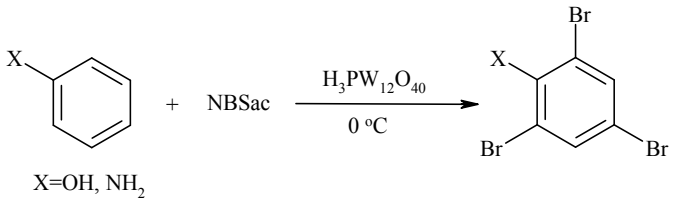
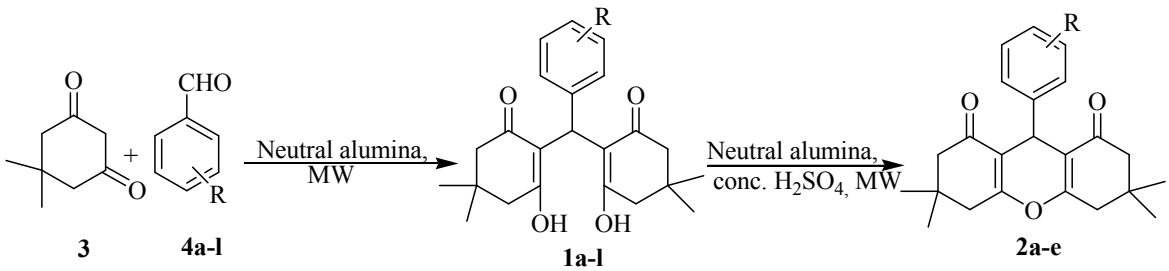
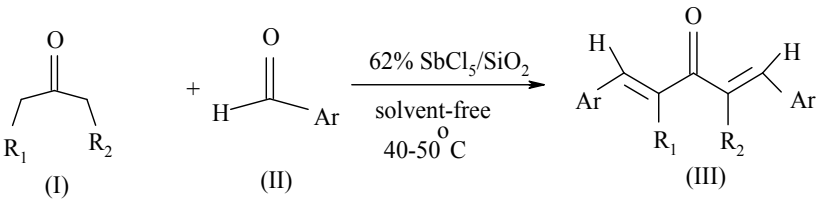
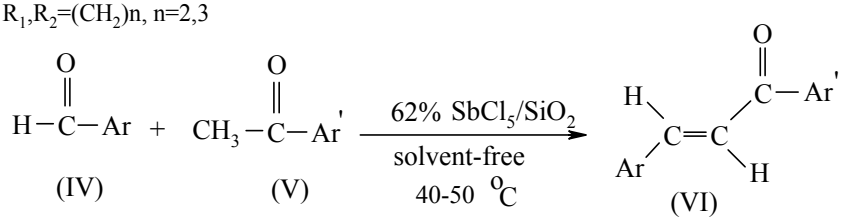
Graphical Abstracts

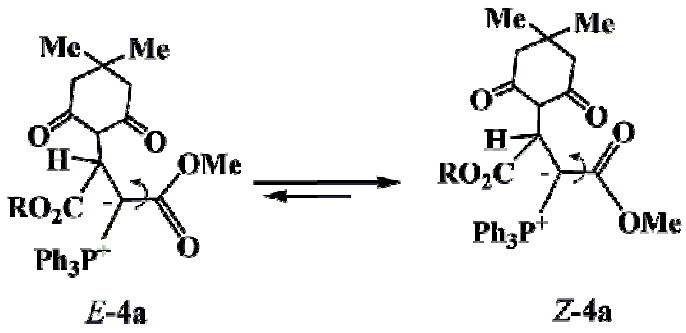












Silica is a compound found in some plants and one of the most important materials in chemical industrial and adsorption processes. In this study, micro silica was extracted from *Equisetum arvense* in North of Iran and purified from *Equisetum arvense* plant ash. SEM measurements determined a particle size of micro silica of 1 -1.5 micrometer. The absorbed compounds were extracted by pure methanol and analyzed by GC/MS, using NIST and WILLY229 libraries for identification.