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Synthesis and characterization of Silica –Supported azo-based Schiff base copper(II) complex, catalytic activity of Suzuki–Miyaura cross coupling reaction

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Abstract : Cu(II) Schiff base complex was immobilized on silica -supported azoaldehyde from the one pot reaction of azoaldehyde with activated silica gel, 3-aminopropyltriethoxysilane and copper acetate. The synthesized material was completely characterized by FT-IR, XRD, SEM, EDX. The silica- azoaldehyde Schiff base Cu(II) complex catalytic was studied through efficient catalysts for the Suzuki-Miyaura cross coupling reactions in aqueous medium in iodobenzene with phenylboronic acid.

Keywords : Schiff base, Silica, Azo-Cu(II) Complex, cross coupling reaction.

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