



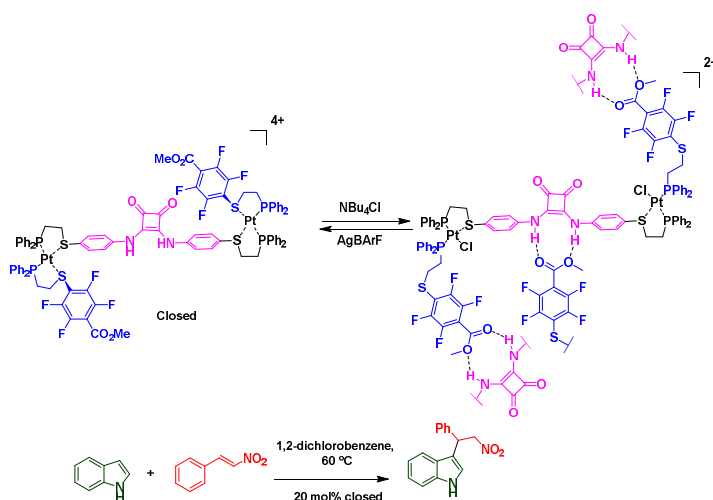








(I) Mirkin had produced a squaramide-based triple-layer hydrogen bond-donor organocatalyst and applied in Michael addition of indole to nitrostyrene. Catalyst is active in closed state. The amount of product in oligomers form in the semi-open state by hydrogen bonding between the squaramide and the external spacers is negligible after 24 h, while in the closed state, oligomer formation is prohibited and the catalytic sites of squaramide are disengaged and its performance is better than open-state [21].



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