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Title: Investigation of the catalytic activity of Mo and V complexes with tridentate pyridyl hydrazone Schiff base ligands in oxidation reactions

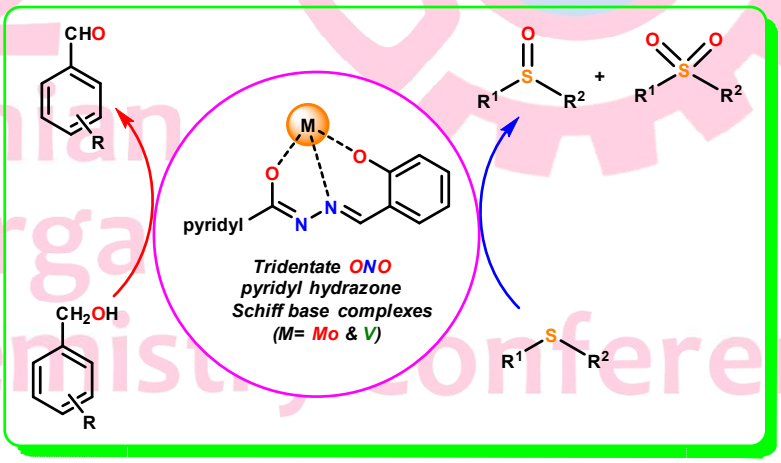
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Most Schiff base metal complexes have an azomethine group as a coordination site, which makes them amenable to easy structural alterations. They may also be easily produced *via* one-step condensation processes, which promote coordination when three, four, or five bonds separate other donor sites. Mo and V complexes with several hydrazone-based Schiff bases have outstanding catalytic activities in various chemical processes [1-4]. Numerous studies on their use in homogeneous and heterogeneous catalysis have been documented during the past several years. Considering the features of both ligands and metals, they can support the production of extremely effective complexes because their properties are often boosted by complexation.

Therefore, significant catalytic activity data for the Mo and V complexes prepared using ONO donor pyridyl hydrazone-based tridentate Schiff base ligands in oxidation reactions are summarised in this paper.



Keywords: Catalytic activity, Pyridyl hydrazone, Schiff base, Oxidation reaction

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