### List of Publications

77. Transfer hydrogenation of ketones catalyzed by half-sandwich (η⁶-pcymene) ruthenium(II) complexes incorporating benzoylhydrazone ligands.  

76. Synthesis and structural characterization of Pd(II) thiosemicarbazonato complex: catalytic evaluation in synthesis of diaryl ketones from aryl aldehydes and arylboronic acids  

75. Steric control on the coordination behaviour of carbazole thiosemicarbazones towards RuH(Cl)(CO)(AsPh₃)₃: A combined experimental and theoretical study  

74. Synthesis and molecular structure of arene ruthenium(II) benzhydrazone complexes: Impact of substitution at chelating ligand and arene moiety on antiproliferative activity  

73. Synthesis and characterization of cycloruthenated benzhydrazone complexes: Catalytic applications to selective oxidative cleavage of olefins to aldehyde.  

72. Square-planar Ni(II) thiosemicarbazonato complex as an easily accessible and convenient catalyst for Sonogashira cross-coupling reaction.  

71. Ruthenium(II)arene complexes containing benzhydrazone ligands: Synthesis, structure and antiproliferative activity  

70. Synthesis and catalytic evaluation of ruthenium(II) benzhydrazone complex in transfer hydrogenation of ketones.  

69. Highly efficient palladium(II) hydrazone based catalysts for the Suzuki coupling reaction in aqueous medium.  

68. Antiproliferative activity of cationic and neutral thiosemicarbazone copper(II) complexes  

67. Efficient and recyclable Ru(II) arene thioamide catalysts for transfer hydrogenation of ketones: Influence of substituent on catalytic outcome  


64. Synthesis and structure of nickel(II) thiocarboxamido complexes: effect of ligand substitutions on DNA/Protein binding, antioxidant and cytotoxicity.  


62. Synthesis and molecular structure of ruthenium (III) benzoylhydrazone complexes: Substituents effect on transfer hydrogenation of ketones.
61. Synthesis of Ru(II) pyridoxal thiosemicarbazone complex and its catalytic application to one-pot conversion of aldehydes to primary amides.

60. Studies on synthesis, spectral, magnetic and electrochemical behavior of binuclear ruthenium(III) thiosemicarbazone complexes.

59. Direct Synthesis Of Amides From Coupling Of Alcohols And Amines Catalyzed By Ruthenium(II) Thiocarboxamide Complexes Under Aerobic Conditions

58. Direct synthesis of imines from alcohols and amines using an active ruthenium(II) NNN-pincer complex.


56. Synthesis, spectral and electrochemical studies of binuclear Ru(III) complexes containing dithiosemicarbazone ligand.

55. Palladium(II) thiosemicarbazone catalyzed Suzuki-Miyaura cross coupling reactions of aryl halides

54. Synthesis and structural characterization of palladium(II) thiosemicarbazone complex: Application to the Buchwald-Hartwig amination reaction

53. Ruthenium(II) half-sandwich complexes containing thioamides: Synthesis, structures and catalytic transfer hydrogenation of ketones.

52. Catalytic application of dinuclear palladium(II) bis(thiosemicarbazone) complex in the Mizoroki-Heck reaction.

51. Synthesis, structural characterization, electrochemistry and catalytic transfer hydrogenation of ruthenium(II) carbonyl complexes containing tridentate benzoylhydrazone ligands.


49. Ruthenium(II) carbonyl complexes containing benzhydrazone ligands: Synthesis, structure and facile one-pot conversion of aldehydes to amides.


47. Suzuki-Miyaura cross-coupling reaction of aryl bromides catalyzed by palladium(II) pyridoxal hydrazone complexes.


45. μ-Halo bridged binuclear ruthenium(III) complexes featuring pyridazine ligands: Synthesis, structure, spectral and electrochemical properties.


27. Luminescent property and catalytic activity of Ru(II) carbonyl complexes containing N,O donor of 2-hydroxy-1-naphthalideneimines.


24. Pt(II)/Pd(II) pincer complexes that show C-H…Cl hydrogen bonding: Synthesis and application in catalytic aldol and silylcyanation reactions.

23. Synthesis of a homochiral carboxylate-containing tetradeinate ligand and it's Co(III) complex.

22. Ruthenium(III) bis-bidentate Schiff base complexes mediated transfer hydrogenation of imines.


19. Catalytic transfer hydrogenation of ketones catalyzed by orthometallated ruthenium(III)2-(arylazo)phenolate complexes bearing triphenylarsine.


12. Spectral and catalytic studies of ruthenium(III) Schiff base complexes.

10. 6,6'-Dimethyl-2,2'-(1R,2R)-cyclohexane-1,2-diylbis(nitrilomethylidyne)-diphenol: three C-H...O hydrogen bonds generate a three-dimensional framework.


7. Synthesis, spectra and redox properties of Ru(II) carbonyl Schiff base complexes.

6. Monofunctional bidentate Schiff Base complexes of Ru(III) containing triphenylphosphine arsine.

5. Synthesis, Characterisation and Antifungal activities of Ru(III) complexes containing heterocyclic dithiocarbamates.


3. Synthesis and Spectral studies of Ru(III) complexes with (mono-di-seleno)bis (ß-diketone) and imidodi (thio-carbonic acid-o-alkylester).

2. Mixed-ligand complexes of Ru(III) containing α, β-Unsaturated-β-ketoamine and triphenylphosphine / arsine.

1. β-Diketonate and α, β-Unsaturated-β-Ketoaminate complexes of Ru(II) containing Carbonyl, thiocarbonyl and pyridine ligands.