Publications

94. Efficient construction of C-C bonds from aryl halides/aryl esters with arylboronic acids catalysed by palladium(II) thiourea complexes


92. Direct synthesis of 2,4,5-trisubstituted imidazoles from primary alcohols by diruthenium(II) catalysts under aerobic conditions

91. The Tandem C–H/N–H Activation of N-Methyl Arlamide Catalyzed by Dinuclear Pd(II) Benzhydrazone Complex: A Concise Access to Phenanthridinone
T.S. Manikandan, R. Ramesh* and D. Semeril, Organometallics, 38 (2019) 319


89. Chiral calixarene and resorcinarene derivatives: Conical cavities substituted at their upper rim by two phosphito units and their uses as ligands in Rh-catalysed hydroformylation

88. Synthesis and structure of arene ruthenium(II) complexes: one pot catalytic approach to synthesis of bioactive quinolines under mild condition

87. Synthesis and structure of arene ruthenium(II) benzhydrazone complexes:
Antiproliferative activity, apoptosis induction and cell cycle analysis

86. Synthesis and structure of Ru(II) complexes of thiosemicarbazones: Highly selective catalysts for oxidation of olefins to aldehydes

85. Direct aerobic strategy for selective synthesis of imines via alcohols and amines promoted by ruthenium(II) (η6-cymene) complexes
84. Synthesis, antiproliferative activity and apoptosis promoting effects of arene Ru(II) complexes with N, O chelating ligands

83. Synthesis and structure of new binuclear ruthenium(II) arene benzyl bis(benzoylhydrazone) complexes: Investigation on antiproliferative activity and apoptosis induction

82. Cavitand chemistry: nickel half-sandwich complexes with imidazolylidene ligands bearing one or two resorcinarenyl substituents

81. Cyclometalated Ru(II)-NHC complexes as effective catalysts for transfer hydrogenation: Influence of wintip group on catalytic outcomes

80. One-pot catalytic approach for the selective aerobic synthesis of imines from alcohols and amines using efficient arene diruthenium(II) catalysts under mild condition

79. Versatile coordination ability of thioamide ligand in Ru(II) complexes: synthesis, computational studies, in vitro anticancer activity and apoptosis induction

78. Transfer hydrogenation of ketones catalyzed by half-sandwich (η6-p-cymene) ruthenium(II) complexes incorporating benzoylhydrazone ligands

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

76. Ru(II) carbazole thiosemicarbazone complexes with four membered chelate ring: Synthesis, molecular structures and evaluation of biological activities

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 Benzhydrazones: 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

66. Synthesis, structure and anticancer activity of (η⁶-benzene) ruthenium(II) complexes containing arylhydrazone ligands

65. Synthesis, molecular structure and electrochemical properties of nickel(II) benzhydrazone complexes: Influence of ligand substitution on DNA/protein interaction, antioxidant activity and cytotoxicity

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

63. An efficient trifunctional benzhydrazone ligated Pd(II) complex for Heck reactions of aryl bromides.

62. Synthesis and molecular structure of ruthenium (III) benzyolhydrazone 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.  

57. DNA/Protein interaction and cytotoxicity of palladium(II) complexes of thiocarboxamide ligands.  

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-Hartwigamination 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  

50. Binuclear ruthenium(II) pyridazine complex catalyzed transfer hydrogenation of ketones  

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

48. Palladium(II) thiocarboxamide complexes: Synthesis, characterisation and application to catalytic Suzuki coupling reactions  
47. Suzuki-Miyaura cross-coupling reaction of aryl bromides catalyzed by palladium(II) pyridoxal hydrazone complexes  

46. Ruthenium(II) NNO pincer type catalyst for the conversion of aldehydes to amides  

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

44. Cationic arene ruthenium(II) complexes bearing N, S chelating thiocarboxamides: Synthesis, structure, characterization and catalytic oxidation of alcohols  

43. Paramagnetic ruthenium(III) complexes bearing O,O chelating ligands: Synthesis, spectra, molecular structure and electron transfer properties  

42. New binuclear Pd(II) thioamide complexes for the Heck reaction of aryl bromides.  

41. Copper(I) hydrazone complexes: Synthesis, structure, DNA binding, radical scavenging and computational studies.  

40. Catalytic transfer hydrogenation of ketones by ruthenium(II) cyclometalled complex containing para-chloroacetophenone thiosemicarbazones.  


38. Synthesis, crystal structure and catalytic activity of ruthenium(II) carbonyl complexes containing ONO and ONS donor ligands  

37. Mononuclear ruthenium(III) complexes containing chelating thiosemicarbazones:  
Synthesis, characterization and catalytic property  

36. Transfer hydrogenation of ketones using recyclable (η6-arene)ruthenium(II) naphthylazo-p-methyl phenolate complex  
35. Rhodium(III) NCN pincer complexes catalyzed transfer hydrogenation of ketones

34. Ruthenium(II) mediated C-H activation of substituted acetophenone thiosemicarbazones: Synthesis, structural characterization, luminescence and electrochemical properties.


32. Binuclear ruthenium(III) Schiff base complexes bearing N₄O₄ donor and their catalytic oxidation of alcohols

31. Ruthenium(III) complexes of amine-bis(phenolate) ligands as catalysts for transfer hydrogenation of ketones


29. Cyclometallated platinum(II) complexes derived from a chiral pyridine ligand: Synthesis, structure and catalytic activity

28. Ruthenium(III) mediated C-H activation of azonaphthol: Synthesis, structural characterization and transfer hydrogenation of ketones

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


24. Chiral 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 tetradentate ligand and it's Co(III) complex.**

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

21. **Synthesis and structure of cycloruthenated carbonyl complexes and their emission, redox and biological properties.**

20. **Ruthenium(III) Schiff base complexes of [ONNO]-type mediated transfer hydrogenation of ketones.**

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

18. **Synthesis, structure, catalytic transfer hydrogenation and biological activity of cyclometallated ruthenium(III)2-(arylazo)phenolate complexes.**

17. **Synthesis, luminescent, redox and catalytic properties of Ru(II) carbonyl complexes containing 2N2O donors.**

16. **Synthesis, characterization and electrochemical studies of ruthenium(II) carbonyl complexes containing bidentate Schiff bases and triphenylphosphine / nitrogen heterocycles.**

15. **Synthesis, spectra, redox and catalytic properties of ruthenium(III) Schiff base complexes.**

14. **Catalytic and biological activities of Ru(III) complexes with N,O donors of 2-hydroxy-1-naphthledeneimines.**

13. **Synthesis, characterization, redox property and biological activity of Ru(II) carbonyl complexes containing O,N-donor ligands and heterocyclic bases.**

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

11. **2-chloro-(3-methoxysalicylidene)aniline.**
10. 6,6’-Dimethoxy-2,2’-[(1R,2R)-cyclohexane-1,2-diylbis(nitrilomethylidyne)]diphenol: three C-H...O hydrogen bonds generate a three-dimentional framework.


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

6. Monofunctionalbidentate Schiff Base complexes of Ru(III) containing triphenylphosphine arsenine.

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 (β-diketone) and imidodi (thio-carbonic acid-o-alkylester).


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