

Contents

Volume 6A

Introduction	1
Part I La	13
Magnetic properties of ion-pair coordination compound containing trinuclear iron(III) cationic complex and dinuclear lanthanum(III) anionic complex	15
Part II Ti	19
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	21
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	23
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	25
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	27
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	29
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	31
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	33
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	35
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	37

vii

Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	39
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	41
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	43
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	45
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	47
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	49
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	51
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	53
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	55
Magnetic properties of heterometallic nonaalkoxodititanatocopper(II) complex	57
Part III Zr	59
Magnetic properties of heterobimetallic, Zr(IV)-Cr(III) complex with 1,10-phenanthroline-5,6-dione	61
Part IV V	63
Magnetic properties of mixed valent vanadium(III)-vanadium(IV) oxyfluoride	65
Magnetic properties of mixed ligand oxovanadium(IV) complex with diprotic ONS chelating ligand and 2,2'-bipyridine	67
Magnetic properties of mixed ligand oxovanadium(IV) complex with diprotic ONS chelating ligand and phenanthroline	69
Magnetic properties of oxovanadium(IV) complex with 1,4-phenyl-diphosphonic acid as ethylenediammonium salt	71
Magnetic properties of oxovanadium(IV) complex with 1,4-phenyl-diphosphonic acid as 1,7-heptylenediamine	74

Magnetic properties of binuclear oxovanadium(IV) complex with pyrrol- 2-carbaldehyde thiocarbohydrazone	77
Magnetic properties of binuclear oxovanadium(IV) complex with Schiff-base derived from 4,6-diacetylresorcinol	79
Magnetic properties of binuclear oxovanadium(IV) complex with Schiff-base derived from 4,6-diacetylresorcinol	81
Magnetic properties of heterobimetallic, Fe(II)-V(IV) complex with 1,10-phenanthroline-5,6-dione	83
Magnetic properties of copper-vanadate-1,4-carboxyphenylphosphonate having 2,2'-bipyridylamine	85
Magnetic properties of copper-vanadate-1,4-carboxyphenylphosphonate having 2,2'-bipyridine	88
Magnetic properties of copper-vanadate-1,4-carboxy-phenylphosphonate and 1,10-phenanthroline	91
Magnetic properties of trinuclear vanadium(IV) complex with triplesalen ligand	93
Part V Cr	97
Magnetic properties of chromium(II) complex with 16-membered modified [N₆] macrocyclic ligand	99
Magnetic properties of chromium(II) complex with 1,10-phenanthroline-5,6-dione	101
Magnetic properties of chromium(III) complex with 16-membered tetradentate macrocyclic ligand	103
Magnetic properties of chromium(III) complex with Schiff-base derived from 4-methyl-1-aminobenzene and salicylaldehyde	105
Magnetic properties of chromium(III) complex with Schiff-base derived from aniline and salicylaldehyde	107
Magnetic properties of chromium(III) complex with Schiff-base derived from 2-aminophenol and salicylaldehyde	109
Magnetic properties of chromium(III) complex derived from 2-nitroaniline and salicylaldehyde	111
Magnetic properties of chromium(III) complex with Schiff-base derived from anthranilic acid and salicylaldehyde	113
Magnetic properties of chromium(III) complex with Schiff-base derived from anthranilic acid and vanillin	115

Magnetic properties of chromium(III) complex with substituted benzoxazole	117
Magnetic properties of chromium(III) complex with 2-mercaptobenzimidazole	119
Magnetic properties of chromium(III) complex with Schiff-base derived from 2-methyl-1-aminobenzene and salicylaldehyde	121
Magnetic properties of chromium(III) complex with Schiff-base derived from 2-aminopyridine and salicylaldehyde	123
Magnetic properties of chromium(III) complex with Schiff-base obtained by <i>o</i>-animophenol and saliclaldehyde	125
Magnetic properties of chromium(III) complex with 9,10-phenanthrenequinone	127
Magnetic properties of homobimetallic, Cr(III)-Cr(II) complex with 1,10-phenanthroline-5,6-dione	130
Magnetic properties of heterobimetallic, Co(II)-Cr(III) complex with 1,10-phenanthroline-5,6-dione	133
Magnetic properties of binuclear chromium(III) complex with multidentate Schiff-base	135
Magnetic properties of bimetallic chromium(III) complex with 32-membered [N₁₂] macrocyclic ligand	138
Magnetic properties of chromium(IV) complex with Schiff-base obtained from <i>o</i>-aminobenzenethiol and saliclaldehyde	141
Magnetic properties of chromium(IV) complex with Schiff-base obtained by 4-phenylthiosemicarbazide and saliclaldehyde	143
Magnetic properties of oxochromium(IV) complex with dianionic tetradentate Schiff-base ligand	145
Part VI W	147
Magnetic properties of two molecular double-supporting polyoxotungstate	149
Part VII Mn	153
Magnetic properties of manganese(II) complex with 16-membered tetradentate macrocyclic ligand	155
Magnetic properties of manganese(II) complex with 16-membered modified [N₆] macrocyclic ligand	157

Magnetic properties of N-methylmorpholinium salt of manganese(II) chloride	159
Magnetic properties of N-methylmorpholinium salt of manganese(II) bromide	162
Magnetic properties of manganese(II) chloro complex with hydrazone ligand containing the thiophene moiety	164
Magnetic properties of manganese(II) complex with hydrazone ligand containing the thiophene moiety	167
Magnetic properties of manganese(II) complex with 5-(4-methoxy-phenyl)-1,3, 4-oxadiazole-2-thione containing ethylenediamine	169
Magnetic properties of manganese(II) complex with 5-phenyl-1,3,4-oxadiazole-2-thione containing ethylenediamine	171
Magnetic properties of manganese(II) complex with 5-(4-pyridyl)-1,3,4-oxadiazole-2-thione containing 2,2'-bipyridine	173
Magnetic properties of manganese(II) complex with polymer anchored Schiff-base	175
Magnetic properties of polymeric mixed ligand manganese(II) complex with benzoic acid and pyridine-N-oxide	177
Magnetic properties of polymeric mixed ligand manganese(II) complex with <i>p</i>-nitrobenzoic acid and pyridine-N-oxide	179
Magnetic properties of manganese(II) complex with 1,3,5-benzenetricarboxylate and formate ligands	182
Magnetic properties of pentanuclear manganese(II) complex with trifunctionalized hydrazone ligand	185
Magnetic properties of manganese(II) complex with pyridyldiphosphonate ligand	187
Magnetic properties of binuclear manganese(II) complex with 1,4-di(6'-methyl-2'-pyridyl)aminophthalazine	190
Magnetic properties of bimetallic manganese(II) complex with trifunctionalized hydrazone ligand	192
Magnetic properties of manganese(II) complex with 1,10-phenanthroline and bulky anthracene-based dicarboxylic ligands	194
Magnetic properties of manganese(II) complex with 2,2'-bipyridine and bulky anthracene-based dicarboxylic ligands	197

Magnetic properties of binuclear manganese(II) complex with multidentate Schiff-base	200
Magnetic properties of ion-pair complex containing 4,4'-bipyridine manganese(II) cation and 4-sulphophthalatodimanganate(II) anion	203
Magnetic properties of binuclear manganese(III) complex with unsymmetrical pyrazolate based compartmental ligand	206
Magnetic properties of binuclear manganese(III) complex with unsymmetrical pyrazolate based compartmental ligand	209
Part VIII Fe	213
Magnetic properties of iron(II) complex with 2,2-dipyridylamine	215
Magnetic properties of iron(II) complex with 2,2-dipyridylamine	217
Magnetic properties of mixed ligand iron(II) complex with quinoxaline, pyridine and thiocyanate	219
Magnetic properties of mixed ligand iron(II) complex with quinoxaline, pyridine and selenocyanate	222
Magnetic properties of amine-ligated iron(II) complex	225
Magnetic properties of alkoxide-ligated cyclam iron(II) complex	228
Magnetic properties of iron(II) adduct with 1,10-phenanthroline-5,6-dione	230
Magnetic properties of iron(II) complex with N,N'-(dithiodiethylenebis-(aminylidenemethylene)-bis(1,2-phenylene)ditosylamide	232
Magnetic properties of polymeric thiocyanatoiron(II) complex with N,N'-diethylnicotinamide	234
Magnetic properties of polymeric iron(II) complex with thiourea ligand	238
Magnetic properties of ditriflate-bridged, diiron(II) complex with 2,3-di-ethynyltriptycene-linked dipicolinic methyl ester ligand (as borate salt)	241
Magnetic properties of binuclear iron(II) complex with multidentate Schiff-base	244
Magnetic properties of heterobimetallic, Fe(II)-Cr(III) complex with 1,10-phenanthroline-5,6-dione	247
Magnetic properties of iron(III) complex with 16-membered tetradentate macrocyclic ligand	249

Magnetic properties of iron(III) complex with Schiff-base derived from <i>o</i>-toluidine and salicylaldehyde	251
Magnetic properties of iron(III) complex with Schiff-base derived from <i>o</i>-toluidine and 2-hydroxynaphthaldehyde	253
Magnetic properties of iron(III) complex with trifunctionalized hydrazone ligand	255
Magnetic properties of trinuclear iron(III) complex with trifunctionalized hydrazone ligand	257
Magnetic properties of mixed ligand iron(III) complex with azide, nitrosyl and Mannich base	259
Magnetic properties of mixed ligand iron(III) complex with azide, nitrosyl and Mannich base	261
Magnetic properties of mixed ligand iron(III) complex with cyanate, nitrosyl and Mannich base	263
Magnetic properties of mixed ligand iron(III) complex with cyanate, nitrosyl and Mannich base	265
Magnetic properties of mixed ligand iron(III) complex with cyanide, nitrosyl and Mannich base	267
Magnetic properties of mixed ligand iron(III) complex with cyanide, nitrosyl and Mannich base	269
Magnetic properties of iron(III) complex with 16-membered modified [N₆] macrocyclic ligand	271
Magnetic properties of tetramethylammonium tetrachloroferrate(III)	273
Magnetic properties of tetramethylammonium tetrabromoferrate(III)	276
Magnetic properties of tetramethylammonium tribromochloroferrate(III)	278
Magnetic properties of tetramethylammonium bromotrichloroferrate(III)	280
Magnetic properties of iron(III) complex with 2-thione-4,6-diamino-5-hydroxypyrimidine	282
Magnetic properties of iron(III) chloro complex with hydrazone ligand containing the thiophene moiety	284
Magnetic properties of iron(III) nitrato complex with hydrazone ligand containing the thiophene moiety	286

Magnetic properties of iron(III) complex with partially deprotonated triprotic imidazole-containing Schiff-base	288
Magnetic properties of iron(III) complex with polymer anchored Schiff-base	290
Magnetic properties of dinuclear iron(III) complex containing μ-oxo-di-μ-carboxylato motif	292
Magnetic properties of binuclear iron(III) complex with Schiff-base derived from 4,6-diacetylresorcinol	294
Magnetic properties of binuclear iron(III) complex with Schiff-base derived from 4,6-diacetylresorcinol	296
Magnetic properties of bimetallic iron(III) complex with 32-membered [N₁₂] macrocyclic ligand	298
Magnetic properties of oxo-bridged binuclear iron(III) complex with tris(2-pyridylmethyl)amine	301
Magnetic properties of oxo-bridged dinuclear iron(III) complex with tetradentate bispidine ligand containing two tertiary amine and two carboxylic groups	304
Magnetic properties of binuclear iron(III) complex with N-(1-propanol)-N,N-bis(3-<i>tert</i>-butyl-5-methyl-2-hydroxybenzyl)amine	307
Part IX Ru	311
Magnetic properties of ruthenium(II) complex with thiazolylazo anion radical	313
Magnetic properties of ruthenium(II) nitrosyl complex with 2,2':6,2'-terpyridine and 3,4,7,8-tetramethyl-1, 10-phenanthroline	315
Magnetic properties of cyano-bridged bimetallic Ru(II)-Fe(III) polymeric complex with <i>t</i>-butyl isocyanide and chloride ligands	317
Magnetic properties of cyano-bridged bimetallic Ru(II)-Fe(III) polymeric complex with <i>t</i>-butyl isocyanide and nitrate ligands	320
Magnetic properties of cyano-bridged bimetallic Ru(II)-Fe(III) polymeric complex with <i>t</i>-butyl isocyanide and chloride ligands	323
Magnetic properties of cyano-bridged bimetallic Ru(II)-Fe(III) polymeric complex with <i>t</i>-butyl isocyanide and nitrate ligands	326
Magnetic properties of ruthenium(III) complex with 16-membered tetradentate macrocyclic ligand	329

Magnetic properties of ruthenium(III) complex with trifunctionalized hydrazone ligand	331
Magnetic properties of ruthenium(III) complex with 16-membered modified [N₆] macrocyclic ligand	333
Magnetic properties of ruthenium(III) chloro complex with hydrazone ligand containing the thiophene moiety	335
Magnetic properties of ruthenium(II) complex with thiazolylazo anion radical	337
Magnetic properties of ruthenium(IV) oxo complex with 2,2'-6'-2''-terpyridine and picolinate ligands	339
Part X Os	341
Magnetic properties of binuclear derivative of osmium(V) chloride ...	343
Part XI Co	345
Magnetic properties of cobalt(II) chloro complex with thiosemicarbazone of 4-aminoantipyrine	347
Magnetic properties of cobalt(II) nitrate complex with thiosemicarbazone of 4-aminoantipyrine	349
Magnetic properties of cobalt(II) isothiocyanato complex with thiosemicarbazone of 4-aminoantipyrine	351
Magnetic properties of cobalt(II) acetato complex with thiosemicarbazone of 4-aminoantipyrine	353
Magnetic properties of cobalt(II) bis complex with thiosemicarbazone of 4-aminoantipyrine	355
Magnetic properties of cobalt(II) chloro complex with thiosemicarbazone of 4-aminoantipyrine	357
Magnetic properties of cobalt(II) nitrate complex with thiosemicarbazone of 4-aminoantipyrine	359
Magnetic properties of cobalt(II) isothiocyanato complex with thiosemicarbazone of 4-aminoantipyrine	361
Magnetic properties of cobalt(II) acetato complex with thiosemicarbazone of 4-aminoantipyrine	363
Magnetic properties of cobalt(II) bis complex with thiosemicarbazone of 4-aminoantipyrine	365
Magnetic properties of cobalt(II) chloro complex with thiosemicarbazone of 4-aminoantipyrine	367

Magnetic properties of cobalt(II) nitrate complex with thiosemicarbazone of 4-aminoantipyrine	369
Magnetic properties of cobalt(II) isothiocyanato complex with thiosemicarbazone of 4-aminoantipyrine	371
Magnetic properties of cobalt(II) acetato complex with thiosemicarbazone of 4-aminoantipyrine	373
Magnetic properties of cobalt(II) bis complex with thiosemicarbazone of 4-aminoantipyrine	375
Magnetic properties of cobalt(II) complex with 16-membered tetradentate macrocyclic ligand	377
Magnetic properties of cobalt(III) complex with Schiff-base, methyl 2-pyridylmethylidenewhydrazinecarbodithioate	379
Magnetic properties of cobalt(II) complex with trifunctionalized hydrazone ligand	381
Magnetic properties of cobalt(II) complex aminobiphenylglyoxime ...	383
Magnetic properties of cobalt(II) complex aminobiphenylglyoxime ...	385
Magnetic properties of cobalt(II) complex aminobiphenylglyoxime ...	387
Magnetic properties of cobalt(II) complex with 16-membered modified [N₆] macrocyclic ligand	389
Magnetic properties of mixed ligand cobalt(II) complex with phenanthroline and saleno-bisphenolate ligand	391
Magnetic properties of cobalt(II) chloro complex with macrocyclic ligand	394
Magnetic properties of cobalt(II) nitrate complex with macrocyclic ligand	396
Magnetic properties of cobalt(II) acetato complex with macrocyclic ligand	398
Magnetic properties of cobalt(II) chloro complex with 12-membered tetraaza[N₄] macrocyclic ligand	400
Magnetic properties of cobalt(II) nitrate complex with 12-membered tetraaza[N₄] macrocyclic ligand	402
Magnetic properties of cobalt(II) complex with Schiff-base derived from 4-substituted carbostyryl [quinolin-2-(1H)-one]	404
Magnetic properties of cobalt(II) complex with Schiff-base derived from 4-substituted carbostyryl [quinolin-2-(1H)-one]	406

Magnetic properties of cobalt(II) complex with Schiff-base derived from 4-substituted carbostyryl [quinolin-2-(1H)-one]	409
Magnetic properties of cobalt(II) complex with hydrazone ligand containing the thiophene moiety	412
Magnetic properties of cobalt(II) chloro complex with hydrazone ligand containing the thiophene moiety	414
Magnetic properties of cobalt(II) nitrate complex with hydrazone ligand containing the thiophene moiety	416
Magnetic properties of cobalt(II) chloro complex with N₂O₂ macrocycle	418
Magnetic properties of cobalt(II) chloro complex with N₂O₂ macrocycle	420
Magnetic properties of cobalt(II) complex with salen-based thiosemicarbazone ligand	422
Magnetic properties of cobalt(II) complex with salen-based thiosemicarbazone ligand	424
Magnetic properties of cobalt(II) aqua complex with salen-based thiosemi-carbazone ligand	426
Magnetic properties of cobalt(II) chloro complex with 14-membered hexaazamacrocyclic ligand	428
Magnetic properties of cobalt(II) nitrate complex with 14-membered hexaazamacrocyclic ligand	430
Magnetic properties of cobalt(II) complex with <i>vic</i>-dioxime containing two azo substituents	432
Magnetic properties of cobalt(II)-hexamethylenetetramine coordination polymer	434
Magnetic properties of mixed ligand cobalt(II) complex with 3,5-dinitrobenzoic acid and 4,4'-bipyridine	436
Magnetic properties of cobalt(II) complex with tris(2-pyridylmethyl)amine	439
Magnetic properties of thiolate-ligated cobalt(II) complex	442
Magnetic properties of thiolate-ligated cyclam cobalt(II) complex	444
Magnetic properties of cobalt(II) adduct with 1,10-phenanthroline-5,6-dione	446
Magnetic properties of cobalt(II) complex with polymer anchored Schiff-base	448

Magnetic properties of cobalt(II) complex with Schiff-base having aza-crown pendant	450
Magnetic properties of cobalt(II) complex with Schiff-base having aza-crown pendant	452
Magnetic properties of cobalt(II) complex with Schiff-base having aza-crown pendant	454
Magnetic properties of cobalt(II) complex with Schiff-base having morpholino pendant	456
Magnetic properties of cobalt(II) complex with Schiff-base having morpholino pendant	458
Magnetic properties of cobalt(II) complex with Schiff-base having morpholino pendant	460
Magnetic properties of mixed ligand cobalt(II) complex with pyridine-2, 5-dicarboxylate and isonicotinamide	462
Magnetic properties of cobalt(II) complex with 1,3,5-benzenetricarboxylate and formate ligands	464
Magnetic properties of cobalt(II) complex with pyridine-2,5-dicarboxylate as 2-amino-3-methylpyridinium salt	467
Magnetic properties of cobalt(II) complex with pyridine-2,5-dicarboxylate as 2-amino-6-methylpyridinium salt	470
Magnetic properties of cobalt(II) complex with N,N'-(dithiodiethylenebis-(aminylidenemethylene)-bis(1,2-phenylene)ditosylamide	473
Magnetic properties of cobalt(II) complex with <i>vic</i>-dioxime ligand bearing 1,8-diamino-3,6-dioxaoctane	476
Magnetic properties of cobalt(II) complex with <i>vic</i>-dioxime ligand bearing 1,8-diamino-3,6-dioxaoctane	478
Magnetic properties of cobalt(II) complex with <i>vic</i>-dioxime ligand bearing 1,8-diamino-3,6-dioxaoctane	480
Magnetic properties of polymeric cobalt(II) complex with 1,3-phenylene-diacetate and 4,4'-bipyridine ligands	482
Magnetic properties of mixed ligand cobalt(II) coordination polymer with 2, 2'-(1,2-phenylene)diacetic acid and 5,6-dimethyl-1H-benzimidazole	485
Magnetic properties of mixed ligand cobalt(II) coordination polymer with benzene-1,2,4,5-tetracarboxylic acid and 5,6-dimethyl-1H-benzimidazole	488

Magnetic properties of thiocyanato bridged cobalt(II) Schiff-base complex	491
Magnetic properties of polymeric ion-pair complex having bis chelated cobalt(II) cation of bis(2-pyridylcarboxylamide) and tetrathiocyanato-cobaltate(II) anion	494
Magnetic properties of bimetallic cobalt(II) hydroxo complex with trifunctionalized hydrazone ligand	497
Magnetic properties of dinuclear cobalt(II) complex with pterin	499
Magnetic properties of binuclear cobalt(II) complex with pyrrol-2-carbaldehyde thiocarbohydrazone	501
Magnetic properties of binuclear cobalt(II) complex with Schiff-base derived from 4,6-diacetylresorcinol	503
Magnetic properties of bimetallic cobalt(II) complex with 32-membered [N₁₂] macrocyclic ligand	505
Magnetic properties of bimetallic cobalt(II) acetato complex with trifunctionalized hydrazone ligand	508
Magnetic properties of cobalt(II) complex with N,N'-bis(2-thiophene-carboxamido)-1,3-diaminopropane	510
Magnetic properties of μ-phenoxo-μ-acetato-bis(η^2-acetato)dicobalt(II) complex	512
Magnetic properties of terephthalate-bridged binuclear cobalt(II) complex with tris(2-pyridylmethyl)amine	515
Magnetic properties of binuclear cobalt(II) complex with multidentate Schiff-base	518
Magnetic properties of bimetallic cobalt(II)-copper(II) complex with N,N'-ethylene-bis(salicylideneimine)	521
Magnetic properties of bimetallic cobalt(III)-copper(II) complex with N,N'-ethylene-bis(salicylideneimine) and ethanol	523
Magnetic properties of mixed ligand trinuclear cobalt(II) complex with <i>p</i>-toluic acid and 4,4'-bipyridine	525
Magnetic properties of trinuclear cobalt(II) complex with Schiff-base derived from 4,6-diacetylresorcinol	528
Magnetic properties of polynuclear cobalt(II) complex with N-(3-carboxyphenyl)iminodiacetic acid as bridging ligand	530
Magnetic properties of mixed-valent polynuclear Co(II)-Co(III) complex incorporating tetradentate phenoxyamine ligand	533

Magnetic properties of cobalt(III) complex with N,N'-bis(2-furancarbox-amido)-1,3-diaminopropane	536
Magnetic properties of cobalt(III) complex with <i>o</i>-aminobenzenethiolate ligand	538
Part XII Ni	541
Magnetic properties of nickel(II) complex with 16-membered tetradentate macrocyclic ligand	543
Magnetic properties of nickel(II) complex with Schiff-base derived from <i>o</i>-toluidine and 2-hydroxynaphthaldehyde	545
Magnetic properties of nickel(II) complex with polydentate carboxamide	547
Magnetic properties of nickel(II) complex with polydentate carboxamide	549
Magnetic properties of nickel(II) complex with polydentate carboxamide	551
Magnetic properties of nickel(II) complex with trifunctionalized hydrazone ligand	553
Magnetic properties of nickel(II) complex with 16-membered modified [N₆] macrocyclic ligand	555
Magnetic properties of nickel(II) chloro complex with macrocyclic ligand	557
Magnetic properties of nickel(II) nitrate complex with macrocyclic ligand	559
Magnetic properties of nickel(II) acetate complex with macrocyclic ligand	561
Magnetic properties of nickel(II) chloro complex with 12-membered tetraaza [N₄] macrocyclic ligand	563
Magnetic properties of nickel(II) nitrate complex with 12-membered tetraaza [N₄] macrocyclic ligand	565
Magnetic properties of nickel(II) complex with Schiff-base derived from 4-substituted carbostyryl [quinolin-2-(1H)-one]	567
Magnetic properties of nickel(II) complex with Schiff-base derived from 4-substituted carbostyryl [quinolin-2-(1H)-one]	569
Magnetic properties of nickel(II) complex with Schiff-base derived from 4-substituted carbostyryl [quinolin-2-(1H)-one]	572

Magnetic properties of mixed ligand nickel(II) complex with 3,5-dinitrobenzoic acid and 4,4'-bipyridine	575
Magnetic properties of nickel(II) complex with hydrazone ligand containing the thiophene moiety	579
Magnetic properties of nickel(II) chloro complex with hydrazone ligand containing the thiophene moiety	582
Magnetic properties of nickel(II) chloro complex with N₂O₂ macrocycle	585
Magnetic properties of nickel(II) chloro complex with N₂O₂ macrocycle	587
Magnetic properties of nickel(II) aqua complex with salen-based thiosemi-carbazone ligand	589
Magnetic properties of nickel(II) aqua complex with salen-based thiosemi-carbazone ligand	592
Magnetic properties of nickel(II) aqua complex with salen-based thiosemi-carbazone ligand	595
Magnetic properties of nickel(II) complex with 2-thione-4,6-diamino-5-hydroxypyrimidine	598
Magnetic properties of nickel(II) complex with 3-methylbenzyl-2-(6-methylpyridin-2-ylmethylene)hydrazine carbodithioate	600
Magnetic properties of nickel(II) chloro complex with 14-membered hexaazamacrocyclic ligand	602
Magnetic properties of nickel(II) nitrate complex with 14-membered hexaazamacrocyclic ligand	605
Magnetic properties of nickel(II) complex with triethylenetetraamine and bidentate nitrogen donor co-ligand	608
Magnetic properties of nickel(II) complex with triethylenetetraamine and bidentate nitrogen donor co-ligand	611
Magnetic properties of nickel(II) complex with triethylenetetraamine and bidentate nitrogen donor co-ligand	613
Magnetic properties of nickel(II) adduct with 1,10-phenanthroline-5,6-dione (in thf)	616
Magnetic properties of nickel(II) adduct with 1,10-phenanthroline-5,6-dione (in N-methylpyrrolidone)	618
Magnetic properties of mixed ligand nickel(II) complex with pyridine-2,5-dicarboxylic acid and 2,2'-bipyridine	620

Magnetic properties of mixed ligand nickel(II) complex with pyridine-2,5-dicarboxylic acid and 1,10-phenanthroline	623
Magnetic properties of nickel(II) complex with 5-phenyl-1,3,4-oxadiazole-2-thione containing ethylenediamine	626
Magnetic properties of nickel(II) complex with 5-furan-1,3,4-oxadiazole-2-thione containing ethylenediamine	628
Magnetic properties of nickel(II) complex with N,N'-(dithiodiethylenebis-(aminylidenemethylene)-bis(1,2-phenylene) ditosylamide	630
Magnetic properties of ion-pair complex containing nickel bis (maleonitriledithiolate) anion and radical cation	632
Magnetic properties of ion-pair complex containing nickel bis (maleonitriledithiolate) anion and radical cation	635
Magnetic properties of dipicolinatonicelate(II) complex having dication of 1,5-pentanediamine	638
Magnetic properties of dipicolinatonicelate(II) complex having dication of 1,8-diaminooctane(1,8-octyldiamine)	640
Magnetic properties of dipicolinatonicelate(II) complex having monoammonium cation of 4-aminobenzylamine	642
Magnetic properties of nickel(II) complex with azo-containing pyridine amide ligand	644
Magnetic properties of mixed ligand pseudo halide supported mononuclear <i>trans</i>-nickel(II) complex with cationic heterocycle and thiocyanate	646
Magnetic properties of nickel(II) complex with L-histidine and imidazol	648
Magnetic properties of mixed ligand pseudo halide supported mononuclear <i>trans</i>-nickel(II) complex with imidazole and cyanate	650
Magnetic properties of mixed ligand nickel(II) complex with L-histidine derivative and benzoate	652
Magnetic properties of mixed ligand nickel(II) complex with L-histidine derivative and thiocyanate	655
Magnetic properties of nickel(II) complex with L-histidine derivative	657
Magnetic properties of nickel(II) complex with <i>vic</i>-dioxime ligand bearing 1,8-diamino-3,6-dioxaoctane	659

Magnetic properties of dinuclear nickel(II) acetato complex with trifunctionalized hydrazone ligand	661
Magnetic properties of binuclear nickel(II) nitrate complex with trifunctionalized hydrazone ligand	664
Magnetic properties of binuclear nickel(II) complex with pyrrol-2-carbaldehyde thiocarbohydrazone	666
Magnetic properties of bimetallic nickel(II) complex with 32-membered [N₁₂] macrocyclic ligand	668
Magnetic properties of binuclear nickel(II) complex with Schiff-base derived from 4,6-diacetylresorcinol	671
Magnetic properties of bimetallic cyclopentadienyl nickel(II) complex with 32-membered [N₁₂] macrocyclic	673
Magnetic properties of dinuclear nickel(II) complex with 2-[1-(3-methyl-amino-propylimino)ethyl-phenol] and nitrite ligands	676
Magnetic properties of dinuclear nickel(II) complex with 2-[1-(3-methyl-amino-propylimino)ethyl-phenol] and nitrate ligands	679
Magnetic properties of a homobinuclear nickel(II) complex with bifunctional tetrazolate-5-carboxylate ligand	682
Magnetic properties of binuclear nickel(II) complex with multidentate Schiff-base	685
Magnetic properties of heterobimetallic, Ni(II)-Cr(III) complex with 1,10-phenanthroline-5,6-dione	687
Magnetic properties of cyano-bridged ion-pair complex containing racemic <i>trans</i>-cyclohexane-(1,2)-diamine copper(II) cation and tetracyano-nickelate(II) anion	689
Magnetic properties of cyano-bridged ion-pair complex containing racemic <i>cis</i>-cyclohexane-(1,2)-diamine copper(II) cation and tetracyano-nickelate(II) anion	691
Magnetic properties of trinuclear nickel(II) complex with ligand involving bridging oxime and acetylacetone functions	693
Magnetic properties of nickel(II) complex with 1,3,5-benzenetricarboxylate and formate ligands	696
Magnetic properties of nickel(II) complex with pyridyl-diphosphonate ligand	699

Magnetic properties of trinuclear nickel(II) complex with β-diketone-functionalized pyridine carboxylate ligand	702
Magnetic properties of tetranuclear nickel(II) complex with β-diketone-functionalized pyridine carboxylate ligand	705
Magnetic properties of tetranuclear nickel(II) complex with pyridyldicarboxamide derivative	708
Magnetic properties of polynuclear nickel(II) complex with N-(4-carboxyphenyl)iminodiacetic acid as bridging ligand	712
Magnetic properties of ion-pair complex containing substituted 2-aminopyridinium cation and bis(maleonitriledithiolato)nickelate anion	716
Magnetic properties of ion-pair complex containing substituted 2-aminopyridinium cation and bis(maleonitriledithiolato)nickelate anion	719
Magnetic properties of nickel(III) complex with 3,3',5,5'-tetrabromobenzil substituted dithiolene ligand	722
Magnetic properties of nickel(III) complex with benzyl substituted dithiolene ligand	725
Magnetic properties of nickel(III) complex with maleonitrile dithiolene ligand	727
Magnetic properties of salt containing bis(maleonitriledithiolate) nickel(III) anion and substituted benzyltriphenylphosphonium cation	729