

Contents

Introduction	1
Part I Ni	15
Magnetic properties of nickel(II) tellurite complex	17
Magnetic properties of nickel(II) complex with chelating resin containing tridentate Schiff-base	19
Magnetic properties of potassium oxo nickelate complex	21
Magnetic properties of nickel(II) fluoride complex with imidazole	23
Magnetic properties of thiodiacetato complex of nickel(II)	25
Magnetic properties of mixed ligand complex of nickel(II) with cytidine and L-alanine	27
Magnetic properties of mixed ligand complex of nickel(II) with cytidine and L-phenylalanine	29
Magnetic properties of mixed ligand complex of nickel(II) with cytidine and L-tryptophan	31
Magnetic properties of nickel(II) complex with polystyrene supported tridentate Schiff-base	33
Magnetic properties of nickel(II) chloro complex with N-nicotinoyl-N'-thiobenzoyl hydrazine	35
Magnetic properties of nickel(II) complex with N-nicotinoyl-N'-thiobenzoyl hydrazine	37
Magnetic properties of nickel(II) complex with 8-(2-azothiazolyl)-7-hydroxy-4-methylcoumarin	39
Magnetic properties of nickel(II) complex with 8-(2-azobenzothiazolyl)-7-hydroxy- 4-methylcoumarin	41

vii

Magnetic properties of mixed ligand nickel(II) with 2-phenyl-3-(benzylimino)1, 2-dihydroquinazolin-4(3H)-one, phenanthroline and thiocyanate	43
Magnetic properties of nickel(II) chloro complex with <i>cis</i>-3,7-dimethyl-2, 6-octadienthiosemicarbazone	45
Magnetic properties of nickel(II) complex with <i>p</i>-methoxyphenyldithio-phosphonate	47
Magnetic properties of nickel(II) complex with <i>p</i>-methoxyphenyldithio-phosphonate	49
Magnetic properties of nickel(II) complex with <i>p</i>-methoxyphenyldithio-phosphonate	51
Magnetic properties of nickel(II) bromide adduct with substituted acenaphthene	53
Magnetic properties of nickel(II) acetato complex with 5-(phenylazo)- 2-thiohydantoin	55
Magnetic properties of nickel(II) acetato complex with 5-(2-hydroxy-phenylazo)- 2-thiohydantoin	57
Magnetic properties of nickel(II) complex with antibiotic drug, diclucaxillin	59
Magnetic properties of mixed ligand nickel(II) complex with thiodiglycolic acid and 2,2'-bipyridine	61
Magnetic properties of mononuclear nickel(II) complex with dicyanamide and triethylenetetramine	63
Magnetic properties of mononuclear nickel(II) complex derived from a hexadentate Schiff-base ligand	65
Magnetic properties of 3D helical dicyanamide nickel(II) complex containing polyamine ligand	67
Magnetic properties of nickel(II) complex with N-monofunctionalized tetraazamacrocyclic ligand	69
Magnetic properties of nickel(II) coordination polymer-containing dicyanamide and 4,4'-bipyridine	71
Magnetic properties of mononuclear nickel(II) complex with 3,5-pyrazoledicarboxylic acid	73
Magnetic properties of mononuclear nickel(II) anionic complex with 3, 5-pyrazoledicarboxylic acid	75

Magnetic properties of mixed ligand nickel(II) complex with 2-phenyl-3-(benzylimino)1,2-dihydroquinazolin-4(3H)-one, ethylenediamine and azide	77
Magnetic properties of mixed ligand nickel(II) complex with 2-phenyl-3-(benzylimino)1,2-dihydroquinazolin-4(3H)-one, phenanthroline and azide	79
Magnetic properties of mixed ligand nickel(II) complex with 2-phenyl- 3-(benzylimino)1,2-dihydroquinazolin- 4(3H)-one, ethylenediamine and thiocyanate	81
Magnetic properties of mixed ligand nickel(II) complex with thiodiglycolic acid and phenanthroline	83
Magnetic properties of mixed ligand nickel(II) complex with thiodiglycolic acid and 1,8-diaminonaphthalene	85
Magnetic properties of mixed ligand nickel(II) complex with thiodiglycolic acid and 5-nitro-1,10-phenanthroline	87
Magnetic properties of mixed ligand nickel(II) complex with thiodiglycolic acid and 2-(aminomethyl)-pyridine	89
Magnetic properties of nickel(II) complex with <i>o</i> -iminobenzoquinone and substituted amine ligands	91
Magnetic properties of ion-pair complex of nickel(II) dithiolate anion and <i>p</i> -N-methylpyridinium α -nitronyl nitroxide cation	93
Magnetic properties of ion-pair complex of nickel(II) dithiolate anion and <i>m</i> -N-methylpyridinium α -nitronyl nitroxide cation	95
Magnetic properties of nickel(II) complex with pyridine-substituted nitronyl nitroxide radical	97
Magnetic properties of nickel(II) complex with <i>o</i> -iminobenzosemiquinone and substituted amine ligands	100
Magnetic properties of mixed ligand complex of Ni(II) with tetramethylethylenediamine and nitroxide radical (K^2N,N mode)	102
Magnetic properties of mixed ligand complex of Ni(II) with tetramethylethylenediamine and nitroxide radical (K^2N,O mode)	105
Magnetic properties of nickel(II) complex with 1,4,8,11-tetraazacyclotetra-decane and tetracyanoquinodimethane	108
Magnetic properties of nickel(II) complex with tetraazamacrocyclic and tetracyanoquinodimethane anion-radical ligands	110
Magnetic properties of nickel(II) complex with tetraazamacrocyclic and two tetracyanoquinodimethane anion-radical ligands	112

Magnetic properties of nickel(II) complex with tetraazamacrocyclic and tetracyanoquinodimethane anion-radical ligands	114
Magnetic properties of nickel(II) complex with tetraazamacrocyclic and tetracyanoquinodimethane anion-radical ligands	116
Magnetic properties of nickel(II) complex with nitronyl nitroxide substituted thiazole	118
Magnetic properties of racemic nickel(II) complex with pyridine-2-aldoxime and 2,2'-bipyridine	120
Magnetic properties of <i>racemic</i> nickel(II) complex with pyridine-2-aldoxime and 1,10-phenanthroline	122
Magnetic properties of an ion-pair compound consisting of 1-(4'-Br- benzyl)pyridinium cation and 2-thioxo-1,3-dithion-4,5-dithiolatonickalate(II) anion	124
Magnetic properties of an ion-pair nickel maleonitrile dithiolate complex anion with substituted pyridinium cation	127
Magnetic properties of binuclear nickel(II) complex of bis-tetraazamacrocyclic	129
Magnetic properties of binuclear nickel(II) complex of bis-tetraazamacrocyclic	131
Magnetic properties of binuclear nickel(II) complex of bis-tetraazamacrocyclic	133
Magnetic properties of binuclear nickel(II) complex of bis-tetraazamacrocyclic	135
Magnetic properties of binuclear nickel(II) complex with dicyanamide and dipropyleneetriamine	137
Magnetic properties of nickel(II) complex with nitrilotris(methylphosphonic) acid and dimethylsulfoxide	139
Magnetic properties of nickel(II) complex with nitrilotris(methylphosphonic) acid and pyridine	141
Magnetic properties of nickel(II) complex with nitrilotris(methylphosphonic) acid and water	143
Magnetic properties of μ -oxalato bridged binuclear nickel(II) complex with 1,8-bis(2-pyridyl)-3,6-dithiaoctane	145
Magnetic properties of μ -oxalato bridged binuclear nickel(II) complex with 1,8-bis(2-pyridyl)-3,6-dithiaoctane	147
Magnetic properties of nickel(II) complex with a Schiff-base	149

Magnetic properties of nickel(II) complex with a Schiff-base	151
Magnetic properties of nickel(II) complex with 2-[2'-hydroxy-benzalidene-5'-(4''-phenyl, 2''-thiazolylazo)]phenol	153
Magnetic properties of nickel(II) complex with 2-[2'-hydroxy-benzalidene-5'-(4''-phenyl-2''-thiazolylazo)]benzoic acid	155
Magnetic properties of binuclear nickel(II) complex with tetraazamacro-cyclic ligand	157
Magnetic properties of trichloroacetato bridged binuclear nickel(II) complex with Schiff-base	159
Magnetic properties of nickel(II) complex with tetraazacyclotetradecane and dicyanamide	162
Magnetic properties of binuclear nickel(II) complex with pentadentate Schiff-base	164
Magnetic properties of azido bridged binuclear nickel(II) complex derived from a hexadentate Schiff-base ligand	166
Magnetic properties of nickel(II) complex with oxime-thiosemicarbazone	168
Magnetic properties of nickel(II) complex with oximethiosemicarbazone	170
Magnetic properties of mixed ligand dinickel complex with tren and racemic amino acid (<i>dl</i>-alanine)	172
Magnetic properties of ion-pair complex, having diethylenetriamine nickel(II) cation and tetracyanonickelate anion	174
Magnetic properties of mixed ligand dinickel complex with tren and racemic amino acid (<i>dl</i>-phenylalaninato)	176
Magnetic properties of mixed ligand dinickel complex with tren and racemic amino acid (<i>dl</i>-histinato)	178
Magnetic properties of mixed ligand dinickel(II) complex with thiodiglycolic acid and ethylenediamine	180
Magnetic properties of binuclear nickel(II) cluster stabilized by pivalate ligand	183
Magnetic properties of bimetallic nickel(II)(host)-barium(II)(guest) complex with polyether ligand	185
Magnetic properties of oxo-bridged hetero-binuclear, Ni(II)-Co(II) complex with compartmental Schiff-base	187

Magnetic properties of hybrid materials containing organometallic cations (cobaltocenium) and 3-D anionic nickel dicyanamide	189
Magnetic properties of copper(II)-nickel(II) heterodinuclear complex with N,N'-bis(2-pyridylethyl)oxamide dianion and dimethyl-bipyridine	191
Magnetic properties of copper(II)-nickel(II) heterodinuclear complex with N,N'-bis(2-pyridylmethyl)oxamide dianion and 5-nitrophenanthroline	193
Magnetic properties of copper(II)-nickel(II) heterodinuclear complex with N,N'-bis(2-pyridylmethyl)oxamide dianion and phenanthroline	195
Magnetic properties of heterobimetallic Ni(II)-Cu(II) complex with bis(2-hydroxy- 1-naphthaldehyde)malonoyldihydrazone	197
Magnetic properties of trinuclear nickel(II) complex with 1,3,5-benzenetricarboxylic acid	199
Magnetic properties of trinuclear nickel(II) complex with asymmetric compartmental prolignand	202
Magnetic properties of trinuclear nickel(II) complex with asymmetric compartmental prolignand	204
Magnetic properties of trinuclear nickel(II) complex with asymmetric compartmental prolignand	206
Magnetic properties of trinuclear nickel(II) complex with asymmetric compartmental prolignand	208
Magnetic properties of trinuclear nickel(II) complex with asymmetric compartmental prolignand	210
Magnetic properties of linear trinuclear nickel(II) complex with 4-amino-3, 5-dimethyl-1,2,4-triazole	212
Magnetic properties of nickel complex of crown thioether	214
Magnetic properties of ion-pair complex of 2,6-bis(pyrazol-3-yl) pyridine nickel(II) cation and trioxalatochromate(III) anion	216
Magnetic properties of trinuclear, cyano-bridged, hetero-bimetallic (Cu-Ni) complex with piperazine	218
Magnetic properties of nickel(II) complex with benzenhexacarboxylic acid (mellitic acid)	220
Magnetic properties of tetranuclear nickel(II) butterfly complex stabilized by pivalate ligand	222

Magnetic properties of tetranuclear heterocubane nickel(II) cluster stabilized by pivalate ligand	224
Magnetic properties of tetranuclear $\text{Ni}_2^{\text{II}}\text{Mn}_2^{\text{II}}$ complex with N-(2-hydroxymethylphenyl)salicylideneimine	226
Magnetic properties of tetrametallic $\text{Ni}_2\text{-Fe}_2$ macrocyclic framework constructed from ferrocenedicarboxylate and bipyridine	229
Magnetic properties of a polymeric complex of nickel(II) with 2,6-dimethylbenzo[1,2-<i>d</i>:4,5-<i>d'</i>]diimidazole	232
Magnetic properties of nickel(II) 1-D chain composed of nickel(II) cation and nickel(II) anionic building blocks	234
Magnetic properties of μ-aqua-dinuclear nickel(II) 1-D chain with 3, 5-pyrazoledicarboxylic acid	236
Magnetic properties of nickel(II) complex with 4-pyridyl-substituted nitronyl nitroxide radical and 1,4-dicarboxy-2, 5-dicarboxylatobenzene dianion	238
Magnetic properties of heterobimetallic, polymeric Ni(II)-Cu(II) complex with N-(3-hydroxypropyl)ethane-1,2-diamine	241
Magnetic properties of polynuclear nickel(II) complex with dicyanamide and triethylenetetramine	244
Magnetic properties of two-dimensional, dipyrazine bridged Ni(II) polymer	246
Magnetic properties of nickel(II) tetraamine phthalocyanine	249
Magnetic properties of nickel(II) phthalocyanine polymer	251
Magnetic properties of a three-dimensional polymeric Ni(II) complex with 5-nitroisophthalate and 1,3-di(4-pyridyl)propane	253
Magnetic properties of dicyanamide bridged nickel(II) complex with tetraazacyclotetradecane	255
Magnetic properties of $\mu_{1,3}$-azido bridged nickel(II) compound with macrocyclic ligand having perchlorate counter anion	258
Magnetic properties of $\mu_{1,3}$-azido bridged nickel(II) compound with macrocyclic ligand having hexafluorophosphate counter anion	261
Magnetic properties of nicotinic acid bridged nickel polymer	263
Magnetic properties of ion-pair complex containing substituted isoquinolinium cation and nickel(III)-malconitriledithiolate anion	265
Magnetic properties of ion-pair complex containing substituted quinolinium cation and nickel(III)-malconitriledithiolate anion	268

Magnetic properties of nickel(II)-azide pyrimidine complex	271
Magnetic properties of ion-pair complex: nickel(II) complex cation with cyclam ligand and cobalt(II) complex anion with maleonitriledithiolate	273
Magnetic properties of nickel(II) thiocyanate complex with nitrogen-sulphur (NS) donor macrocyclic ligand derived from thiosemicarbazide	275
Magnetic properties of ion-pair complex: nickel(II) complex cation with macrocyclic ligand and cobalt(II) complex anion with maleonitriledithiolate	277
Magnetic properties of ion-pair complex: nickel(II) complex cation with macrocyclic ligand and nickel(II) complex anion with maleonitriledithiolate	279
Magnetic properties of ion-pair complex: ethyl-pyridinium substituted verdazyl radical cation and nickel(II) dithiolate anion	281
Magnetic properties of ion-pair complex having macrocyclic nickel(II) cation and tetrachlorocobaltate(II) anion	283
Magnetic properties of nickel(II) chloro complex with tetradentate [N₄] macrocyclic ligand	285
Magnetic properties of nickel(II) nitrate complex with tetradentate [N₄] macrocyclic ligand	287
Magnetic properties of nickel(II) sulphato complex with tetradentate [N₄] macrocyclic ligand	289
Magnetic properties of nickel(II) chloro complex with 12-membered macrocyclic ligand	291
Magnetic properties of nickel(II) nitrate complex with 12-membered macrocyclic ligand	293
Magnetic properties of nickel(II) thiocyanato complex with 12-membered macrocyclic ligand	295
Magnetic properties of nickel(II) complex with 1-acetophenonethiosemicarbazone	297
Magnetic properties of nickel(II) complex with 1-acetophenone-4-ethyl-thiosemicarbazone	299
Magnetic properties of nickel(II) complex with 1-salicylaldehydethiosemicarbazone	301
Magnetic properties of nickel(II) complex with 1-salicylaldehyde-4-ethyl- thiosemicarbazone	303

Magnetic properties of nickel(II) complex with 1-salicylaldehyde-4-phenyl- thiosemicarbazone	305
Magnetic properties of nickel(II) complex with 1-salicylaldehyde-4-<i>p</i>-chloro-phenylthiosemicarbazone	307
Magnetic properties of nickel(II) complex with 1-(2-hydroxy-4-methoxybenzophenone)-4-phenylthiosemicarbazone	309
Magnetic properties of nickel(II) complex with 1-benzophenonethiosemicarbazone	311
Magnetic properties of nickel(II) complex with Schiff-base	313
Magnetic properties of nickel(II) chloride complex with nitrogen-sulphur (NS) donor macrocyclic ligand derived from thiosemicarbazide	315
Magnetic properties of nickel(II) nitrate complex with nitrogen-sulphur (NS) donor macrocyclic ligand derived from thiosemicarbazide	317
Magnetic properties of mixed ligand nickel(II) complex with bis(phenylimine) Schiff-base and 2-aminopyridine	319
Magnetic properties of mixed ligand nickel(II) complex with bis(phenylimine) Schiff-base and 2-aminopyridine	321
Magnetic properties of nickel(II) complex with 2-<i>tert</i>-butyl-aminomethylpyridine- 6-carboxylic acid methyl ester	323
Magnetic properties of nickel(II) complex with Schiff-base	325
Magnetic properties of nickel(II) complex with piroxicam and alanine	327
Magnetic properties of μ-pyrazine bridged nickel(II) complex	329
Magnetic properties of nickel(II) complex with cyclobutane-substituted Schiff-base ligand	331
Magnetic properties of nickel(II) complex with 6-(2-pyridylazo)-3-acetamidophenol	333
Magnetic properties of nickel(II) complex with Schiff-base	335
Magnetic properties of nickel(II) complex with 2-(1-indazolyl)-benzothiazole	337
Magnetic properties of nickel(II) complex with 14-membered macrocyclic ligand	339
Magnetic properties of nickel(II) complex with acetophenone oxaloyl-dihydrazone	341

Magnetic properties of nickel(II) complex with 4-hydroxyacetophenone oxaloyldihydrazone	343
Magnetic properties of nickel(II) complex with phthalhydroxamic acid	345
Magnetic properties of nickel(II) complex with di(3,5-dichlorophenyl)- carbazone	347
Magnetic properties of nickel(II) thiocyanato complex with 1-salicyloyl- 4-benzoyl-3-thiosemicarbazide	349
Magnetic properties of nickel(II) chloro complex with 1-salicyloyl-4-benzoyl- 3-thiosemicarbazide	351
Magnetic properties of nickel(II) thiocyanato(-N) complex with imidazole-derived ligand having an amide group	353
Magnetic properties of nickel(II) thiocyanato(-N) complex with imidazole-derived ligand having an amide group	355
Magnetic properties of nickel(II) thiocyanato(-N) complex with imidazole-derived ligand having an amide group	357
Magnetic properties of nickel(II) thiocyanato(-N) complex with imidazole-derived ligand having an amide group	359
Magnetic properties of nickel(II) chloro complex with imidazole-derived ligand having an amide group	361
Magnetic properties of nickel(II) chloro complex with imidazole-derived ligand having an amide group	363
Magnetic properties of nickel(II) bromo complex with imidazole-derived ligand having an amide group	365
Magnetic properties of nickel(II) chloro complex with imidazole-derived ligand having an amide group	367
Magnetic properties of nickel(II) bromo complex with imidazole-derived ligand having an amide group	369
Magnetic properties of nickel(II) complex with thiazole Schiff-base ...	371
Magnetic properties of nickel(II) complex with β-ketoamine	373
Magnetic properties of 2,2'-bipyridine adduct of nickel(II) β-ketoiminate	375
Magnetic properties of 1,10-phenanthroline adduct of nickel(II) β-ketoiminate	377
Magnetic properties of nickel(II) β-ketoiminate	379

Magnetic properties of 2,2'-bipyridine adduct of nickel(II) β-ketoiminate	381
Magnetic properties of 1,10-phenanthroline adduct of nickel(II) β-ketoiminate	383
Magnetic properties of nickel(II) β-ketoiminate	385
Magnetic properties of nickel(II) β-ketoiminate	387
Magnetic properties of 2,2'-bipyridine adduct of nickel(II) β-ketoiminate	389
Magnetic properties of 1,10-phenanthroline adduct of nickel(II) β-ketoiminate	391
Magnetic properties of nickel(II) β-ketoiminate	393
Magnetic properties of 2,2'-bipyridine adduct of nickel(II) β-ketoiminate	395
Magnetic properties of 1,10-phenanthroline adduct of nickel(II) β-ketoiminate	397
Magnetic properties of nickel(II) chloro complex with 1,2-(diimino-4'-antipyrinyl)-1,2-diphenylethane	399
Magnetic properties of nickel(II) acetato complex with 1,2-(diimino-4'-antipyrinyl)-1,2-diphenylethane	401
Magnetic properties of nickel(II) complex with Schiff-base	403
Magnetic properties of mixed ligand nickel(II) complex with N,N'-dimethylethylenediamine and saccharine	405
Magnetic properties of mixed ligand nickel(II) complex with N,N-dimethylethylenediamine and saccharin	407
Magnetic properties of nickel(II) chloro complex with 4-(2-pyridyl)-1-diacetylmonoxime-3-thiosemicarbazone	409
Magnetic properties of nickel(II) acetato complex with 4-(2-pyridyl)-1-diacetylmonoxime-3-thiosemicarbazone	411
Magnetic properties of nickel(II) complex with quinoxaline-2-carboxaldehydesemicarbazone	413
Magnetic properties of nickel(II) complex with quinoxaline-2-carboxaldene- 2-furfurylamine	415
Magnetic properties of nickel(II) complex with Schiff-base ligand containing cyclobutane and thiazole	417

Magnetic properties of nickel(II) complex with Schiff-base ligand containing cyclobutane and thiazole	419
Magnetic properties of nickel(II) complex with S-(methyl)-N⁴-phenyl-thiosemicarbazone	421
Magnetic properties of nickel(II) complex with S-(ethyl)-N⁴-phenyl-thiosemicarbazone	423
Magnetic properties of nickel(II) complex with S-(<i>n</i>-propyl)-N⁴-phenyl-thiosemicarbazone	425
Magnetic properties of nickel(II) complex with S-(benzyl)-N⁴-phenyl-thiosemicarbazone	427
Magnetic properties of nickel(II) complex with 4-hydroxyacetophenone-4-aminobenzoylhydrazone	429
Magnetic properties of nickel(II) complex with N,N'-bis(4-antipyryl-methylidene)-ethylenediamine perchlorate salt	431
Magnetic properties of nickel(II) complex with N,N'-bis(4-antipyryl-methylidene)-ethylenediamine nitrate salt	433
Magnetic properties of nickel(II) complex with N,N'-bis(4-antipyryl-methylidene)-ethylenediamine chloride salt	435
Magnetic properties of nickel(II) complex with N,N'-bis(4-antipyryl-methylidene)-ethylenediamine bromide salt	437
Magnetic properties of nickel(II) complex with N,N'-bis(4-antipyryl-methylidene)-ethylenediamine iodide salt	439
Magnetic properties of nickel(II) complex with Schiff-base derived from pyrimidine-2-thione	441
Magnetic properties of nickel(II) chloro complex with heterocyclic Schiff-base derived from pyrimidine-2-one and 3-hydroxysalicylaldehyde	443
Magnetic properties of nickel(II) chloro complex with nitrogen donor macrocyclic ligand	445
Magnetic properties of nickel(II) nitrate complex with nitrogen donor macrocyclic ligand	447
Magnetic properties of nickel(II) acetate complex with nitrogen donor macrocyclic ligand	449
Magnetic properties of nickel(II) sulphate complex with nitrogen donor macrocyclic ligand	451

Magnetic properties of nickel(II) chloro complex with 14-membered Schiff-base macrocycle	453
Magnetic properties of nickel(II) chloro complex with 14-membered Schiff-base macrocycle	455
Magnetic properties of nickel(II) chloro complex with 14-membered Schiff-base macrocycle	457
Magnetic properties of mixed ligand complex of nickel(II) with pyridine-2,3-dicarboxylic acid and hydrazine	459
Magnetic properties of mixed ligand complex of nickel(II) with pyridine-2, 5-dicarboxylic acid and hydrazine	461
Magnetic properties of mixed ligand complex of nickel(II) with 5-chloro-salicylidene-<i>p</i>-anisidine and bis-(benzylidene)ethylenediamine	463
Magnetic properties of mixed ligand complex of nickel(II) with 5-bromo-salicylidene-<i>p</i>-anisidine and bis-(benzylidene)ethylenediamine	465
Magnetic properties of nickel(II) perchlorato complex with 2,3-dimethyl- 4-formyl(benzhydrazide)-1-phenyl-3-pyrazolin-5-one ...	467
Magnetic properties of nickel(II) nitrate complex with 2,3-dimethyl-4-formyl(benzhydrazide)-1-phenyl-3-pyrazolin-5-one	469
Magnetic properties of nickel(II) chloro complex with 2,3-dimethyl-4-formyl-(benzhydrazide)-1-phenyl-3-pyrazolin-5-one	471
Magnetic properties of nickel(II) bromo complex with 2,3-dimethyl-4-formyl-(benzhydrazide)-1-phenyl-3-pyrazolin-5-one	473
Magnetic properties of nickel(II) iodo complex with 2,3-dimethyl-4-formyl-(benzhydrazide)-1-phenyl-3-pyrazolin- 5-one	475
Magnetic properties of nickel(II) complex with heterocyclic Schiff-base	477
Magnetic properties of nickel(II) mixed ligand complex with Schiff-bases containing NO and NN donor atoms	479
Magnetic properties of binuclear nickel(II) complex bridged by azo-2,2'-bipyridine ligand	481
Magnetic properties of nickel(II) chloride complex with 2-acetylnaphtho[2,1-b]-furan oxime	484

Magnetic properties of nickel(II) complex with 2-benzoylnaphtho[2,1-b]-furan oxime	486
Magnetic properties of nickel(II) chloro complex with hexaaza[17]-paracyclophane (Schiff-base)	488
Magnetic properties of nickel(II) nitrate complex with hexaaza[17]-paracyclophane (Schiff-base)	490
Magnetic properties of nickel(II) complex with 2-(thiomethyl-2'-benzimidazolyl)-benzimidazole	492
Magnetic properties of nickel(II) bromo complex with 2-(thiomethyl-2'-benzimidazolyl)-benzimidazole	494
Magnetic properties of nickel(II) complex with Schiff-base derived from methylthiosemicarbazone and coumarin	496
Magnetic properties of nickel(II) complex with Schiff-base derived from methylthiosemicarbazone and coumarin	498
Magnetic properties of nickel(II) complex with Schiff-base derived from benzyl and triethylenetetraamine	500
Magnetic properties of nickel(II) complex with {N,N'-2,2'-bis(aminoethyl)- methylamine-bis- (3-carboxysalicylaldimine)}	502
Magnetic properties of nickel(II) complex with benzoylhydrazone of ω-bromoacetoacetanilide	504
Magnetic properties of nickel(II) complex with salicylhydrazone of ω-bromoacetoacetanilide	506
Magnetic properties of nickel(II) complex with methyliminoisonitroso-2-acetylnaphthalene	508
Magnetic properties of nickel(II) complex with benzyliminoisonitroso-2-acetylnaphthalene	510
Magnetic properties of mixed ligand nickel(II) complex with diethyldithiocarbamate and pyridine	512
Magnetic properties of mixed ligand nickel(II) complex with diphenyldithiocarbamate and pyridine	514
Magnetic properties of nickel(II) complex with sulfasalazine	516
Magnetic properties of nickel(II) bis complex with sulfasalazine	518
Magnetic properties of nickel(II) complex with 12-membered tetraaza macrocyclic ligand	520
Magnetic properties of nickel(II) complex with 14-membered tetraaza macrocyclic ligand	522

Magnetic properties of nickel(II) acetato complex with 2,5-hexanedione bis-(isonicotinylhydrazone)	524
Magnetic properties of nickel(II) nitrate complex with macrocyclic ligand	526
Magnetic properties of nickel(II) acetato complex with macrocyclic ligand	528
Magnetic properties of nickel(II) complex with Schiff-base derived from 4-phenylthiazole-2-semicarbazide	530
Magnetic properties of nickel(II) complex with Schiff-base derived from 4-phenylthiazole-2-semicarbazide	532
Magnetic properties of nickel(II) complex with Schiff-base derived from 4-phenylthiazole-2-semicarbazide	534
Magnetic properties of nickel(II) complex with 3,5-N,N'-[2,2'-bis-thienylmethylidene]-diaminotolulene	536
Magnetic properties of nickel(II) complex with 2-amino-4-benzamido-thiosemicarbazide	538
Magnetic properties of binuclear nickel(II) complex with binucleating ligand	540
Magnetic properties of dimeric nickel(II) complex with 1-acetophenone-4-phenylthiosemicarbazone	542
Magnetic properties of dimeric nickel(II) complex with 1-acetophenone-4-<i>p</i>-chloro- phenylthiosemicarbazone	544
Magnetic properties of dimeric nickel(II) complex with 1-(2-hydroxy-4-methoxybenzophenone)-4-<i>p</i>-chlorophenylthiosemicarbazone	546
Magnetic properties of binuclear nickel(II) acetato complex with N,N,N',N'-tetrakis-[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane	548
Magnetic properties of binuclear nickel(II) propionate complex with N,N,N',N'-tetrakis-[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane	550
Magnetic properties of binuclear nickel(II) chloroacetato complex with N,N,N',N'-tetrakis[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane	552
Magnetic properties of binuclear nickel(II) trichloroacetato complex with N,N,N',N'-tetrakis[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane	554

Magnetic properties of binuclear nickel(II) trifluoroacetato complex with N,N,N',N'-tetrakis[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane	556
Magnetic properties of binuclear nickel(II) acetato complex with N,N,N',N'-tetrakis[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane and urea	558
Magnetic properties of binuclear nickel(II) propionato complex with N,N,N',N'-tetrakis-[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane and urea	561
Magnetic properties of binuclear nickel(II) chloroacetato complex with N,N,N',N'-tetrakis[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane and urea	563
Magnetic properties of binuclear nickel(II) trichloroacetato complex with N,N,N',N'-tetrakis[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane and urea	565
Magnetic properties of binuclear nickel(II) trifluoroacetato complex with N,N,N',N'-tetrakis[(1-ethyl-2-benzimidazolyl)-methyl]2-hydroxy-1,3-diaminopropane and urea	567
Magnetic properties of phosphate bridged nickel(II) complex with phosphodiester	569
Magnetic properties of binuclear nickel(II) complex with Schiff-base	571
Magnetic properties of binuclear nickel(II) chloro complex with 28-membered macrocyclic ligand	573
Magnetic properties of binuclear nickel(II) bromo complex with 28-membered macrocyclic ligand	575
Magnetic properties of dimeric nickel(II) complex with salicylaldazine	577
Magnetic properties of nickel(II) complex with Schiff-base derived from 5-(2'-thiazolylazo)salicylaldehyde and 2-aminophenol	579
Magnetic properties of binuclear nickel(II) nitrate complex with heterocyclic azine	581
Magnetic properties of binuclear nickel(II) chloro complex with heterocyclic azine	583
Magnetic properties of binuclear nickel(II) perchlorato complex with heterocyclic azine	585
Magnetic properties of dinickel(II) complex with dithiocarbamate	587

Magnetic properties of binuclear nickel(II) complex with cyclodiphosphazane	589
Magnetic properties of binuclear nickel(II) complex with cyclodiphosphazane	591
Magnetic properties of homo-binuclear di-μ_2-alkoxo bridged nickel(III) complex with Schiff-base	593
Magnetic properties of binuclear nickel(II) complex with N-benzoyl-N'-(2-hydroxyphenyl)-thiocarbamide	595
Magnetic properties of mixed ligand binuclear nickel(II) complex with N-benzoyl-N'-(2-hydroxyphenyl)-thiocarbamide and pyridine ...	597
Magnetic properties of mixed ligand binuclear nickel(II) complex with N-benzoyl-N'-(2-hydroxyphenyl)-thiocarbamide and α-picoline	599
Magnetic properties of mixed ligand binuclear nickel(II) complex with N-benzoyl-N'-(2-hydroxyphenyl)-thiocarbamide and β-picoline	601
Magnetic properties of mixed ligand binuclear nickel(II) complex with N-benzoyl-N'-(2-hydroxyphenyl)-thiocarbamide and γ-picoline ...	603
Magnetic properties of bimetallic, Ni₂ complex with ferrocene-bridged bis-(pyridines)	605
Magnetic properties of dinuclear nickel(II) complex with O-bridged urea and phenol-containing Schiff-base	607
Magnetic properties of dinuclear nickel(II) complex bridged by azo-2,2'-bipyridine ligand	610
Magnetic properties of μ-acetato-di-μ-phenolato heterobimetallic, Ni-Co complex with dinucleating macrocyclic ligand	613
Magnetic properties of hetero-metallic, binuclear Ni(II)-Cu(II) chloro complex with nickel(II) Schiff-base complex as ligand	616
Magnetic properties of hetero-binuclear nickel(II)-copper(II) complex with 5-nitroindazole and ethylenediamine	618
Magnetic properties of hetero-metallic, dinuclear nickel(II)-oxouranyl(VI) nitrato complex with nickel(II) Schiff-base complex as ligand	620
Magnetic properties of homometallic, trinuclear nickel(II) chloro complex with nickel(II) Schiff-base complex as ligand	622
Magnetic properties of homometallic, trinuclear nickel(II) perchlorate complex with nickel(II) Schiff-base complex as ligand	624

Magnetic properties of trinuclear nickel(II) complex with macrocycle ligand	626
Magnetic properties of heterometallic, trinuclear dinickel(II)-manganese(II) chloro complex with nickel(II) Schiff-base complex as ligand	628
Magnetic properties of heterometallic, trinuclear dinickel(II)-iron(III) chloro complex with nickel(II) Schiff-base complex as ligand	630
Magnetic properties of hetero-metallic, trinuclear dinickel(II)-cobalt(II) chloride complex with nickel(II) Schiff-base complex as ligand	632
Magnetic properties of hetero-metallic, trinuclear dinickel(II)-cobalt(II) perchlorate complex with nickel(II) Schiff-base complex as ligand	634
Magnetic properties of hetero-metallic, trinuclear dinickel(II)-cerium(III) nitrate complex with nickel(II) Schiff-base complex as ligand	636
Magnetic properties of hetero-metallic, trinuclear dinickel(II)-thorium(IV) nitrate complex with nickel(II) Schiff-base complex as ligand	638
Magnetic properties of tetranuclear nickel(II) complex with O-bridged urea and phenol-containing Schiff-base	640
Magnetic properties of polymeric nickel(II) complex with 2,4-dihydroxy-5-acetylaceto-phenone	643
Magnetic properties of polymeric nickel(II) complex with 2,4-dihydroxy-5-acetylaceto-phenonedioxime	645
Magnetic properties of nickel(II) complex with acetophenone-4-amino-benzoylhydrazone	647
Magnetic properties of polymeric mixed ligand complex of nickel(II) with pyridine-2,4-dicarboxylic acid and hydrazine	649
Magnetic properties of polymeric mixed ligand complex of nickel(II) with pyridine-2,6-dicarboxylic acid and hydrazine	651
Magnetic properties of polymeric nickel(II) complex with benzofuro-2-carboxy-[4'-methylphenyl]thiosemicarbazide	653
Magnetic properties of polymeric nickel(II) complex with benzofuro-2-carboxy-[4'-methoxyphenyl]thiosemicarbazide	655
Magnetic properties of polymeric nickel(II) complex with benzofuro-2-carboxy- [4'-bromophenyl]thiosemicarbazide	657

Magnetic properties of nickel(II) complex with N-picolinoyl-N'-2-furanthiocarbohydride	659
Part II Pd	661
Magnetic properties of oxo-bridged hetero-binuclear, Pd(II)-Co(II) complex with compartmental Schiff-base	663
Part III Pt	665
Magnetic properties of platinum(II) complex with <i>o</i> -pyridyl nitronyl nitroxide radical	667
Magnetic properties of platinum(II) complex with <i>p</i> -pyridyl-nitronyl nitroxide radical	669
Magnetic properties of platinum maleonitriledithiolate complex anion with substituted pyridinium cation	671
Part IV Ce	673
Magnetic properties of cerium(III) chloro complex with 2-(3-coumarinyl)-imidazo[1,2- <i>a</i>]pyridine	675
Magnetic properties of cerium salt of silicomolybdate heteropoly blues	677
Magnetic properties of cerium salt of silicomolybdate cobalt heteropoly blues	679
Magnetic properties of cerium salt of silicomolybdate nickel heteropoly blues	681
Magnetic properties of cerium(III) nitrato complex with hexadentate macrocyclic ligand	683
Magnetic properties of cerium(III) complex with 2-nitrate and bis-salicylatothiosemicarbazide	685
Magnetic properties of cerium(III) complex with bis-salicylatothiosemicarbazide	687
Magnetic properties of mixed ligand cerium(III) complex with 2-amino-pyridine and bis-salicylatothiosemicarbazide	689
Magnetic properties of mixed ligand cerium(III) complex with 2-amino-pyridine and bis-salicylatothiosemicarbazide	691
Magnetic properties of mixed ligand complex of cerium(III) with oxalate and bis-salicylatothiosemicarbazide	693

Magnetic properties of mixed ligand complex of cerium(III) with oxalate and bis-salicylatothiosemicarbazide	695
Magnetic properties of mixed ligand complex of cerium(III) with oxalate, nitrate and bis-salicylatothiosemicarbazide	697
Magnetic properties of mixed ligand complex of cerium(III) with oxalate and bis-salicylatothiosemicarbazide	699
Magnetic properties of cerium(III) complex with arylidene Schiff-base	701
Magnetic properties of cerium(III) complex with arylidene Schiff-base	703
Magnetic properties of cerium(III) complex with thiocarbohydrazone	705
Magnetic properties of 6H-perovskite, quaternary oxide of barium-cerium-irridium $\text{Ba}_3\text{CeIr}_2\text{O}_9$	707
Magnetic properties of cerium germanium antimonide	709
Magnetic properties of dimeric mixed ligand cerium(III) complex with oxalate and bis-salicylatothiosemicarbazide	711
Magnetic properties of cerium(III) complex with thiosemicarbazone ...	713
Magnetic properties of cerium(III) complex with semicarbazone	715
Part V Pr	717
Magnetic properties of praseodymium(III) chloro complex with 2-(3-coumarinyl)-imidazo[1,2-<i>a</i>]pyridine	719
Magnetic properties of praseodymium(III) <i>trans</i>-2-butenolate polymer	721
Magnetic properties of praseodymium-copper complex with nitrilotriacetic acid	723
Magnetic properties of tetranuclear praseodymium(III)-copper(II) complex with macrocyclic oxamide	725
Magnetic properties of praseodymium salt of silicomolybdate heteropoly blues	727
Magnetic properties of praseodymium salt of silicomolybdate cobalt heteropoly blues	729
Magnetic properties of praseodymium salt of silicomolybdate nickel heteropoly blues	731

Magnetic properties of ternary praseodymium ruthenium gallide (with a high gallium content)	733
Magnetic properties of double perovskite A_2LnMO_6; barium-praseodymium-ruthenium oxide	735
Magnetic properties of 6H-perovskite, quaternary oxide of barium-praseodymium-irridium $Ba_3PrIr_2O_9$	737
Magnetic properties of terbium germanium antimonide	739
Magnetic properties of praseodymium(III) complex with 5-aminosalicylic acid	741
Magnetic properties of heterotrimetallic derivative of praseodymium(III) containing nonaisopropoxidezirconate ligand	743
Magnetic properties of heterotrimetallic derivative of praseodymium(III) containing nonaisopropoxidezirconate ligand	745
Part VI Nd	747
Magnetic properties of neodymium(III) chloro complex with 2-(3-coumarinyl)-imidazo[1,2-<i>a</i>]pyridine	749
Magnetic properties of crotonato bridged dinuclear neodymium(III) aqua complex	751
Magnetic properties of heteronuclear copper-neodymium unsaturated carboxylate complex	753
Magnetic properties of neodymium(II) complex with 1,3,5-benzenetricarboxylate	755
Magnetic properties of neodymium salt of silicomolybdate heteropoly blues	757
Magnetic properties of neodymium salt of silicomolybdate cobalt heteropoly blues	759
Magnetic properties of neodymium salt of silicomolybdate nickel heteropoly blues	761
Magnetic properties of neodymium(III) nitrate complex with hexadentate macrocyclic ligand	763
Magnetic properties of neodymium(III) chloro complex with hexadentate macrocyclic ligand	765
Magnetic properties of double perovskite A_2LnMO_6; barium-neodymium-ruthenium oxide	767

Magnetic properties of double perovskite of neodymium, gallium and manganese, $\text{Nd}_2\text{GaMnO}_6$	769
Magnetic properties of neodymium germanium antimonide	771
Magnetic properties of neodymium(III) complex with 5-aminosalicylic acid	773
Magnetic properties of heterotrimetallic derivative of neodymium(III) containing nonaisopropoxidezirconate ligand	775
Magnetic properties of heterotrimetallic derivative of neodymium(III) containing nonaisopropoxidezirconate ligand	777
Part VII Sm	779
Magnetic properties of samarium(III) nitrato complex with 2-(3-coumarinyl)-imidazo[1,2-<i>a</i>]pyridine	781
Magnetic properties of first Sm-Ni heterometallic complex of picolinic acid ligand showing basket weave topology	783
Magnetic properties of samarium salt of silicomolybdate heteropoly blues	786
Magnetic properties of samarium salt of silicomolybdate cobalt heteropoly blues	788
Magnetic properties of samarium salt of silicomolybdate nickel heteropoly blues	790
Magnetic properties of samarium germanium antimonide	792
Magnetic properties of samarium(III) chloro complex with hexadentate macrocyclic ligand	794
Magnetic properties of samarium(III) complex with 5-aminosalicylic acid	796
Part VIII Eu	799
Magnetic properties of europium(II) nitridoborate	801
Magnetic properties of lithium-europium nitridoborate	803
Magnetic properties of tetranuclear (Fe^{III}-Eu^{III}) cluster assembled by carboxylate ligands	805
Magnetic properties of europium-ytterbium nitridosilicate	807
Magnetic properties of europium(III) chromate	809
Magnetic properties of europium(III) chloro complex with hexadentate macrocyclic ligand	811

Magnetic properties of europium(III) complex with 5-aminosalicylic acid	813
Part IX Gd	815
Magnetic properties of gadolinium(III) nitrate complex with 2-(3-coumarinyl)-imidazo[1,2-<i>a</i>]pyridine	817
Magnetic properties of crotonato bridged dinuclear gadolinium(III) aqua complex as 2,2'-dipyridylamine adduct	819
Magnetic properties of crotonato bridged dinuclear gadolinium(III) complex with 2,2'-bipyridine	821
Magnetic properties of cyano-bridged, gadolinium(III)-iron(III) complex with <i>o</i>-phenanthroline	823
Magnetic properties of cyano-bridged gadolinium(III)-tungstate(V) bimetallic assembly with N,N-dimethylformamide	825
Magnetic properties of heteronuclear Cu^{II}Gd^{III} complex with the hexadentate Schiff-base compartmental ligand	828
Magnetic properties of copper(II)-gadolinium(II) complex with Schiff-base ligand	831
Magnetic properties of gadolinium-copper complex with nitrilotriacetic acid	834
Magnetic properties of tetranuclear bimetallic (Fe^{III}-Gd^{III})₂ complex with 1,2-bis-(3-methoxysalicylidene)aminoethane	836
Magnetic properties of heterometallic gadolinium-copper, Gd₂Cu₃ complex with <i>ortho</i>-phenylenebis(oxamate)	838
Magnetic properties of gadolinium salt of silicomolybdate heteropoly blues	840
Magnetic properties of gadolinium salt of silicomolybdate cobalt heteropoly blues	842
Magnetic properties of gadolinium salt of silicomolybdate nickel heteropoly blues	844
Magnetic properties of double perovskite A₂LnMO₆; strontium-gadolinium-ruthenium oxide	846
Magnetic properties of double perovskite A₂LnMO₆; barium-gadolinium-ruthenium oxide	848
Magnetic properties of double 6H-perovskite; barium-gadolinium-diruthenium oxide	850

Magnetic properties of perovskite, quaternary oxide of barium-gadolinium-molybdenum $\text{Ba}_3\text{Gd}_2\text{MoO}_9$	852
Magnetic properties of perovskite, quaternary oxide of barium-gadolinium-tungsten oxide $\text{Ba}_3\text{Gd}_2\text{WO}_9$	854
Magnetic properties of gadolinium germanium antimonide	856
Part X Tb	859
Magnetic properties of terbium-copper complex with nitrilotriacetic acid	861
Magnetic properties of mixed ligand bimetallic, heteronuclear complex of terbium(III)-zinc(II) with α -methylacrylic acid and bipyridine	863
Magnetic properties of double perovskite A_2LnMO_6 ; strontium-terbium-ruthenium oxide	865
Magnetic properties of perovskite, quaternary oxide of barium-terbium-tungsten $\text{Ba}_3\text{Tb}_2\text{WO}_9$	867
Part XI Dy	869
Magnetic properties of dysprosium(III) nitrato complex with 2-(3-coumarinyl)-imidazo[1,2- <i>a</i>]pyridine	871
Magnetic properties of dysprosium(III) <i>trans</i> -2-butenate polymer ...	873
Magnetic properties of double perovskite A_2LnMO_6 ; strontium-dysprosium-ruthenium oxide	875
Magnetic properties of perovskite, quaternary oxide of barium-dysprosium-molybdenum $\text{Ba}_3\text{Dy}_2\text{MoO}_9$	877
Magnetic properties of perovskite, quaternary oxide of barium-dysprosium-tungsten $\text{Ba}_3\text{Dy}_2\text{WO}_9$	879
Part XII Ho	881
Magnetic properties of holmium copper phosphide	883
Magnetic properties of holmium copper arsenide	885
Magnetic properties of crotonato bridged dinuclear holmium(III) aqua complex as 2,2'-dipyridylamine adduct	887
Magnetic properties of crotonato bridged dinuclear holmium(III) complex 2,2'-bipyridine	889
Magnetic properties of holmium(III) <i>trans</i> -2-butenate polymer	891

Magnetic properties of double perovskite A_2LnMO_6 ; strontium-holmium-ruthenium oxide	893
Magnetic properties of double perovskite A_2LnMO_6 ; barium-holmium-ruthenium oxide	895
Magnetic properties of double 6H-perovskite; barium-holmium-diruthenium oxide	897
Magnetic properties of perovskite, quaternary oxide of barium-holmium-molybdenum oxide $Ba_3Ho_2MoO_9$	899
Magnetic properties of perovskite, quaternary oxide of barium-holmium-tungsten $Ba_3Ho_2WO_9$	901
Magnetic properties of heterotrimetallic derivative of holmium(III) containing nonaisopropoxidezirconate ligand	903
Part XIII Er	905
Magnetic properties of erbium-copper complex with nitrilotriacetic acid	907
Magnetic properties of double perovskite A_2LnMO_6 ; strontium-erbium-ruthenium oxide	909
Magnetic properties of double perovskite A_2LnMO_6 ; barium-erbium-ruthenium oxide	911
Magnetic properties of double 6H-perovskite; barium-erbium-diruthenium oxide	913
Magnetic properties of perovskite, quaternary oxide of barium-erbium-molybdenum $Ba_3Er_2MoO_9$	915
Magnetic properties of perovskite, quaternary oxide barium-erbium-tungsten $Ba_3Er_2WO_9$	917
Part XIV Tm	919
Magnetic properties of diphenyl hydrazine bridged binuclear complex of thulium(III) iodide	921
Magnetic properties of double perovskite A_2LnMO_6 ; strontium-thulium-ruthenium oxide	923
Magnetic properties of double perovskite A_2LnMO_6 ; barium-thulium-ruthenium oxide	925
Magnetic properties of double 6H-perovskite; barium-thulium-diruthenium oxide	927

Magnetic properties of perovskite, quaternary oxide of barium-thulium-molybdenum $\text{Ba}_3\text{Tm}_2\text{MoO}_9$	929
Magnetic properties of perovskite, quaternary oxide of barium-thulium-tungsten $\text{Ba}_3\text{Tm}_2\text{WO}_9$	931
Part XV Yb	933
Magnetic properties of barium-ytterbium nitridosilicate	935
Magnetic properties of strontium-ytterbium nitridosilicate	937
Magnetic properties of double perovskite A_2LnMO_6 ; strontium-ytterbium-ruthenium oxide	939
Magnetic properties of double perovskite A_2LnMO_6 ; barium-ytterbium-ruthenium oxide	941
Magnetic properties of double 6H-perovskite; barium-ytterbium-diruthenium oxide	943
Magnetic properties of perovskite, quaternary oxide of barium-ytterbium-molybdenum $\text{Ba}_3\text{Yb}_2\text{MoO}_9$	945
Magnetic properties of perovskite, quaternary oxide of barium-ytterbium-tungsten $\text{Ba}_3\text{Yb}_2\text{WO}_9$	947
Part XVI Lu	949
Magnetic properties of double perovskite A_2LnMO_6 ; strontium-lutetium-ruthenium oxide	951
Magnetic properties of double perovskite A_2LnMO_6 ; barium-lutetium-ruthenium oxide	953
Magnetic properties of double 6H-perovskite; barium-lutetium-diruthenium oxide	955
Part XVII Th	957
Magnetic properties of disubstituted-cyclopentadienyl thorium complex	959
Part XVIII U	961
Magnetic properties of heterobimetallic $\text{UO}_2(\text{VI})$ - $\text{Cu}(\text{II})$ complex with bis(2-hydroxy-1-naphthaldehyde)malonoyldihydrazone	963
Magnetic properties of oxo-bridged hetero-binuclear, $\text{UO}_2(\text{VI})$ - $\text{Co}(\text{II})$ complex with compartmental Schiff-base	965

Magnetic properties of binuclear mixed metal, U(VI)-Mn(II) complex with <i>o</i>-cresolphthalein ligand	967
Magnetic properties of binuclear mixed metal, U(VI)-Co(II) complex with <i>o</i>-cresolphthalein ligand	969
Magnetic properties of binuclear mixed metal, U(VI)-Cu(II) complex with <i>o</i>-cresolphthalein ligand	971