

## Subject Index of Volume 242

### Alkoxide ligand

Unusually structured organolanthanoid(III) dimers with two chiral, but not strictly equivalent, nitrogen-functionalized alkoxide bridges 15

### Aminophosphine phosphinite

Chiral aminophosphine phosphinite ligands and related auxiliaries: Recent advances in their design, coordination chemistry, and use in enantioselective catalysis 145

### Arene- $\pi$ -complexes

Chiral mono- and bidentate ligands derived from chromium arene complexes—synthesis, structure and catalytic applications 59

### Asymmetric catalysis

1,1'-Binaphthyl-2,2'-diol and 2,2'-diamino-1,1'-binaphthyl: versatile frameworks for chiral ligands in coordination and metallocupramolecular chemistry 33

Chiral mono- and bidentate ligands derived from chromium arene complexes—synthesis, structure and catalytic applications 59

Chiral thioether ligands: coordination chemistry and asymmetric catalysis 159

Fluorous chiral ligands for novel catalytic systems 115

Metal complexes of chiral binaphthyl Schiff-base ligands and their application in stereoselective organic transformations 97

### Binaphthyl ligands

1,1'-Binaphthyl-2,2'-diol and 2,2'-diamino-1,1'-binaphthyl: versatile frameworks for chiral ligands in coordination and metallocupramolecular chemistry 33

### Binaphthyl Schiff-base ligands

Metal complexes of chiral binaphthyl Schiff-base ligands and their application in stereoselective organic transformations 97

### Biomimetic

Hierarchical structure in assemblies of enantiopure ruthenium trisdiimine complexes: a biomimetic approach utilizing primary, secondary, tertiary and quaternary structural elements 47

### Biphasic catalysis

Fluorous chiral ligands for novel catalytic systems 115

### Chiral

Hierarchical structure in assemblies of enantiopure ruthenium trisdiimine complexes: a biomimetic approach utilizing primary, secondary, tertiary and quaternary structural elements 47

### Chiral diphosphines

Chiral aminophosphine phosphinite ligands and related auxiliaries: Recent advances in their design, coordination chemistry, and use in enantioselective catalysis 145

### Chirality

Supramolecular coordination compounds with chiral pyridine and polypyridine ligands derived from terpenes 87

Unusually structured organolanthanoid(III) dimers with two chiral, but not strictly equivalent, nitrogen-functionalized alkoxide bridges 15

### Chirality at metal

Predetermination of chirality at octahedral centres with tetradentate ligands: prospects for enantioselective catalysis 125

### Chiral metal complexes

1,1'-Binaphthyl-2,2'-diol and 2,2'-diamino-1,1'-binaphthyl: versatile frameworks for chiral ligands in coordination and metallocupramolecular chemistry 33

Metal complexes of chiral binaphthyl Schiff-base ligands and their application in stereoselective organic transformations 97

### Chiral thioether

Chiral thioether ligands: coordination chemistry and asymmetric catalysis 159

### Circular dichroism

Helical supramolecular organizations from metal-organic liquid crystals 73

### Crystal structures

Unusually structured organolanthanoid(III) dimers with two chiral, but not strictly equivalent, nitrogen-functionalized alkoxide bridges 15

### Dendrimer

Hierarchical structure in assemblies of enantiopure ruthenium trisdiimine complexes: a biomimetic approach utilizing primary, secondary, tertiary and quaternary structural elements 47

### 1:1 Diastereomer co-crystallization

[(Cy)Ru(LL\*)Cl] and related half-sandwich compounds—two diastereomers in the same single crystal 3

### Diastereomers

[(Cy)Ru(LL\*)Cl] and related half-sandwich compounds—two diastereomers in the same single crystal 3

### Diastereoselectivity

Supramolecular coordination compounds with chiral pyridine and polypyridine ligands derived from terpenes 87

### Enantiomers

[(Cy)Ru(LL\*)Cl] and related half-sandwich compounds—two diastereomers in the same single crystal 3

### Enantioselective catalysis

Chiral aminophosphine phosphinite ligands and related auxiliaries: Recent advances in their design, coordination chemistry, and use in enantioselective catalysis 145

### Enantioselective formation of C–C bonds

Chiral aminophosphine phosphinite ligands and related auxiliaries: Recent advances in their design, coordination chemistry, and use in enantioselective catalysis 145

### Enantioselective hydroformylation

Chiral aminophosphine phosphinite ligands and related auxiliaries: Recent advances in their design, coordination chemistry, and use in enantioselective catalysis 145

### Enantioselective hydrogenation

Chiral aminophosphine phosphinite ligands and related auxiliaries: Recent advances in their design, coordination chemistry, and use in enantioselective catalysis 145

### Half-sandwich complexes

[(Cy)Ru(LL\*)Cl] and related half-sandwich compounds—two diastereomers in the same single crystal 3

## Helical columnar mesophases

Helical supramolecular organizations from metal-organic liquid crystals 73

## Helicates

Supramolecular coordination compounds with chiral pyridine and polypyridine ligands derived from terpenes 87

## Hierarchical structure

Hierarchical structure in assemblies of enantiopure ruthenium trisdiimine complexes: a biomimetic approach utilizing primary, secondary, tertiary and quaternary structural elements 47

## Homogeneous catalysis

Chiral thioether ligands: coordination chemistry and asymmetric catalysis 159

## Metallosupramolecular architectures

Supramolecular coordination compounds with chiral pyridine and polypyridine ligands derived from terpenes 87

## Molecular recognition

[(Cy)Ru(LL\*)Cl] and related half-sandwich compounds—two diastereomers in the same single crystal 3

## Nitrogen ligands

1,1'-Binaphthyl-2,2'-diol and 2,2'-diamino-1,1'-binaphthyl: versatile frameworks for chiral ligands in coordination and metallosupramolecular chemistry 33

## Optical activity

Helical supramolecular organizations from metal-organic liquid crystals 73

## Oxygen ligands

1,1'-Binaphthyl-2,2'-diol and 2,2'-diamino-1,1'-binaphthyl: versatile frameworks for chiral ligands in coordination and metallosupramolecular chemistry 33

## Perfluoroalkylation

Fluorous chiral ligands for novel catalytic systems 115

## Phosphorus ligands

Chiral mono- and bidentate ligands derived from chromium arene complexes—synthesis, structure and catalytic applications 59

## Planar chirality

Chiral mono- and bidentate ligands derived from chromium arene complexes—synthesis, structure and catalytic applications 59

## Polypyridyl

Hierarchical structure in assemblies of enantiopure ruthenium trisdiimine complexes: a biomimetic approach utilizing primary, secondary, tertiary and quaternary structural elements 47

## Predetermination of chirality

Predetermination of chirality at octahedral centres with tetradentate ligands: prospects for enantioselective catalysis 125

## Rare earths

Unusually structured organolanthanoid(III) dimers with two chiral, but not strictly equivalent, nitrogen-functionalized alkoxide bridges 15

## Ruthenium

Hierarchical structure in assemblies of enantiopure ruthenium trisdiimine complexes: a biomimetic approach utilizing primary, secondary, tertiary and quaternary structural elements 47

## Solid-state NMR spectroscopy

Unusually structured organolanthanoid(III) dimers with two chiral, but not strictly equivalent, nitrogen-functionalized alkoxide bridges 15

## Structure elucidation

Metal complexes of chiral binaphthyl Schiff-base ligands and their application in stereoselective organic transformations 97

## Supercritical fluid

Fluorous chiral ligands for novel catalytic systems 115

## Supramolecular chemistry

1,1'-Binaphthyl-2,2'-diol and 2,2'-diamino-1,1'-binaphthyl: versatile frameworks for chiral ligands in coordination and metallosupramolecular chemistry 33

## Supramolecular organizations

Helical supramolecular organizations from metal-organic liquid crystals 73

## Tetradentate ligands

Predetermination of chirality at octahedral centres with tetradentate ligands: prospects for enantioselective catalysis 125

## Transition metal complexes

Chiral thioether ligands: coordination chemistry and asymmetric catalysis 159

## X-ray diffraction

Helical supramolecular organizations from metal-organic liquid crystals 73