

COORDINATION CHEMISTRY REVIEWS, VOLS. 219–221 (2001)

SUBJECT INDEX

- Absorption band shape
Correlations of optical and thermal charge transfer 687
- Absorption spectroscopy
Coupled electronic states in *trans*- $\text{MCl}_2(\text{H}_2\text{O})_4^+$ complexes (M: Ni^{2+} , Co^{2+} , V^{3+} , Cr^{3+}) probed by absorption and luminescence spectroscopy 509
- Aluminosilicates
Silicate complexes of aluminum(III) in aqueous systems 665
- Aluminum and dementia
Silicate complexes of aluminum(III) in aqueous systems 665
- Aluminum in biology
Silicate complexes of aluminum(III) in aqueous systems 665
- Anion recognition
Anion recognition by dimetallic cryptates 821
- Aromaticity
Metalloaromaticity 957
- Axial substitution
Indium phthalocyanines and naphthalocyanines for optical limiting 235
- Azo compounds
Complexes with 2,2'-azobispyridine and related 'S-frame' bridging ligands containing the azo function 463
- Battery applications
Silver vanadium oxides and related battery applications 283
- Bayer process
Silicate complexes of aluminum(III) in aqueous systems 665
- Bioactivity
Coordination chemistry of vanadium in metallopharmaceutical candidate compounds 1033
- Bonding modes
Review of metal 1-azaallyl complexes 605
- Bridging ligands
Chemistry, properties and applications of the assembling 1,8-diisocyano-*p*-menthane, 2,5-dimethyl-2',5'-diisocyanohexane and 1,3-diisocyanopropane ligands and their coordination polynuclear complexes 17
- Complexes with 2,2'-azobispyridine and related 'S-frame' bridging ligands containing the azo function 463
- Cages
Anion recognition by dimetallic cryptates 821
- ZINDO calculations
Assignment of the optical spectra of metal phthalocyanines through spectral band deconvolution analysis and ZINDO calculations 993
- Cancer
Coordination chemistry of vanadium in metallopharmaceutical candidate compounds 1033
- Carbon dioxide
Catalytic oxidations in carbon dioxide-based reaction media, including novel CO_2 -expanded phases 789
- Catalysis
Catalytic oxidations in carbon dioxide-based reaction media, including novel CO_2 -expanded phases 789
- C–H activation reactions
Platinum(IV) hydride chemistry 157
- Charge transfer
Correlations of optical and thermal charge transfer 687
- Phenylcyanamide ligands and their metal complexes 125
- Charge transfer transition energies
Correlations of optical and thermal charge transfer 687

Chiral

Optically active phthalocyanines 99

Chromium complexes

Coupled electronic states in *trans*- $\text{MCl}_2(\text{H}_2\text{O})_4^{2+}$ complexes (M: Ni^{2+} , Co^{2+} , V^{3+} , Cr^{3+}) probed by absorption and luminescence spectroscopy 509

Circular dichroism

Optically active phthalocyanines 99

Clusters

Luminescent mixed ligand copper(I) clusters $(\text{CuI})_n(\text{L})_m$ (L = pyridine, piperidine): thermodynamic control of molecular and supramolecular species 3

Cobalt complexes

Coupled electronic states in *trans*- $\text{MCl}_2(\text{H}_2\text{O})_4^{2+}$ complexes (M: Ni^{2+} , Co^{2+} , V^{3+} , Cr^{3+}) probed by absorption and luminescence spectroscopy 509

Coordination compounds

Effects of high external pressures on the electronic spectra of coordination compounds 713

Copper(I)

Luminescent mixed ligand copper(I) clusters $(\text{CuI})_n(\text{L})_m$ (L = pyridine, piperidine): thermodynamic control of molecular and supramolecular species 3

Copper(II) complexes

Anion recognition by dimetallic cryptates 821

Crystal structures

d–f Heteronuclear complexes: synthesis, structures and physicochemical aspects 379

Cyanide-bridged systems

Advances in the coordination chemistry of $[\text{M}(\text{CN})_5\text{L}]^{n-}$ ions (M = Fe, Ru, Os) 881

Dendrimers

Dendrimers based on photoactive metal complexes. Recent advances 545

Deuteriation

The effect of deuteriation on the emission lifetime of inorganic compounds 761

d–f Complexes

d–f Heteronuclear complexes: synthesis, structures and physicochemical aspects 379

DFT calculations

Resonance Raman spectra of d^6 metal–diimine complexes reflect changes in metal–ligand interaction and character of electronic transition 937

Diabetes mellitus

Coordination chemistry of vanadium in metallopharmaceutical candidate compounds 1033

Diamond-anvil cell

Effects of high external pressures on the electronic spectra of coordination compounds 713

Diimine complexes

Resonance Raman spectra of d^6 metal–diimine complexes reflect changes in metal–ligand interaction and character of electronic transition 937

Dimetallic cryptates

Anion recognition by dimetallic cryptates 821

Dinuclear complexes

Complexes with 2,2'-azobispyridine and related 'S-frame' bridging ligands containing the azo function 463

Dioxygen

Catalytic oxidations in carbon dioxide-based reaction media, including novel CO_2 -expanded phases 789

Donor–acceptor

Correlations of optical and thermal charge transfer 687

 d^6 Transition metalsResonance Raman spectra of d^6 metal–diimine complexes reflect changes in metal–ligand interaction and character of electronic transition 937

Dynamics

 η^1 -Indenyl derivatives of transition metal and main group elements: synthesis, characterization and molecular dynamics 311

Electrochemical/optical correlations

Correlations of optical and thermal charge transfer 687

Electron exchange

Phenylcyanamide ligands and their metal complexes 125

Electronic spectra

Photoreactivity of gold complexes 489

Electronic spectroscopy

Effects of high external pressures on the electronic spectra of coordination compounds 713

Electronic structure

Complexes with 2,2'-azobispyridine and related 'S-frame' bridging ligands containing the azo function 463

- Electron-transfer
Coupled electron-transfer and spin-exchange reactions 81
Electron-transfer induced isomerizations of coordination compounds 53
- Electron transfer
Correlations of optical and thermal charge transfer 687
- Emission lifetimes
The effect of deuteration on the emission lifetime of inorganic compounds 761
- Emission spectroscopy
Coupled electronic states in *trans*- $\text{MCl}_2(\text{H}_2\text{O})_4^{n+}$ complexes (M: Ni^{2+} , Co^{2+} , V^{3+} , Cr^{3+}) probed by absorption and luminescence spectroscopy 509
- ESEEM
Coordination chemistry of vanadium in metallopharmaceutical candidate compounds 1033
- Excited electronic states
Excited electronic states of transition-metal dimers and the VBCI model: an overview 1075
- Excited states
The effect of deuteration on the emission lifetime of inorganic compounds 761
- Ferromagnetic interactions
d–f Heteronuclear complexes: synthesis, structures and physicochemical aspects 379
- Fluorescence
d–f Heteronuclear complexes: synthesis, structures and physicochemical aspects 379
- Fluxionality
 η^1 -Indenyl derivatives of transition metal and main group elements: synthesis, characterization and molecular dynamics 311
- Four-membered metallocycles
Review of metal 1-azaallyl complexes 605
- Gold complexes
Photoreactivity of gold complexes 489
- Heterocycle
Metalloaromaticity 957
- Heteronuclear complexes
d–f Heteronuclear complexes: synthesis, structures and physicochemical aspects 379
- High oxidation states
Ozonolysis in coordination chemistry and catalysis: recent advances 259
- Hydridoplatinum(IV) chemistry
Platinum(IV) hydride chemistry 157
- Inclusion complexes
Anion recognition by dimetallic cryptates 821
- Indene
 η^1 -Indenyl derivatives of transition metal and main group elements: synthesis, characterization and molecular dynamics 311
- Indenyl
 η^1 -Indenyl derivatives of transition metal and main group elements: synthesis, characterization and molecular dynamics 311
- Indium
Indium phthalocyanines and naphthalocyanines for optical limiting 235
- π Interaction
Complexes with 2,2'-azobispyridine and related 'S-frame' bridging ligands containing the azo function 463
- Intramolecular isomeric equilibria
Interactions of lead(II) with nucleotides and their constituents 435
- Ion pairs
Correlations of optical and thermal charge transfer 687
- Isocyanides
Chemistry, properties and applications of the assembling 1,8-diisocyano-*p*-menthane, 2,5-dimethyl-2',5'-diisocyanohexane and 1,3-diisocyanopropane ligands and their coordination polynuclear complexes 17
- Isomerization
Electron-transfer induced isomerizations of coordination compounds 53
- Kinetic parameters
Coupled electron-transfer and spin-exchange reactions 81
- Lanthanide and actinide complexes
Ozonolysis in coordination chemistry and catalysis: recent advances 259
- Lanthanides
The effect of deuteration on the emission lifetime of inorganic compounds 761
- Lead(II) complexes of biological relevance
Interactions of lead(II) with nucleotides and their constituents 435

LIESST

Photoswitchable coordination compounds 839

Light harvesting

Dendrimers based on photoactive metal complexes. Recent advances 545

Linear optical properties

Indium phthalocyanines and naphthalocyanines for optical limiting 235

Luminescence

Dendrimers based on photoactive metal complexes. Recent advances 545

d–f Heteronuclear complexes: synthesis, structures and physicochemical aspects 379

Luminescent mixed ligand copper(I) clusters $(\text{CuI})_n(\text{L})_m$ (L = pyridine, piperidine): thermodynamic control of molecular and supramolecular species 3

Magnetic anisotropy

New experimental techniques for magnetic anisotropy in molecular materials 573

Main group

η^1 -Indenyl derivatives of transition metal and main group elements: synthesis, characterization and molecular dynamics 311

Mechanisms

Electron-transfer induced isomerizations of coordination compounds 53

Metal 1-azaallyl complexes

Review of metal 1-azaallyl complexes 605

Metal clusters

Monomeric and extended oxo-centered triruthenium clusters 187

Metal complexes

Dendrimers based on photoactive metal complexes. Recent advances 545

Metallabenzene

Metalloaromaticity 957

Metallacycle

Metalloaromaticity 957

Metalloaromaticity

Metalloaromaticity 957

Metallole

Metalloaromaticity 957

Metal–metal bonds

Resonance Raman spectra of d⁶ metal–diimine complexes reflect changes in metal–ligand interaction and character of electronic transition 937

Metal phthalocyanines

Assignment of the optical spectra of metal phthalocyanines through spectral band deconvolution analysis and ZINDO calculations 993

Methyl complexes

Resonance Raman spectra of d⁶ metal–diimine complexes reflect changes in metal–ligand interaction and character of electronic transition 937

Micro-SQUID arrays

New experimental techniques for magnetic anisotropy in molecular materials 573

Mixed-valence

Phenylcyanamide ligands and their metal complexes 125

Mixed-valent complexes

Advances in the coordination chemistry of $[\text{M}(\text{CN})_5\text{L}]^{n-}$ ions (M = Fe, Ru, Os) 881

Molecular electrochemistry

Electron-transfer induced isomerizations of coordination compounds 53

Molecular magnetism

New experimental techniques for magnetic anisotropy in molecular materials 573

MQ3 series

Unique properties of transition metal quinone complexes of the MQ₃ series 415

Naphthalocyanines

Indium phthalocyanines and naphthalocyanines for optical limiting 235

N-bound ligands

Luminescent mixed ligand copper(I) clusters $(\text{CuI})_n(\text{L})_m$ (L = pyridine, piperidine): thermodynamic control of molecular and supramolecular species 3

Nickel complexes

Coupled electronic states in *trans*- $\text{MCl}_2(\text{H}_2\text{O})_4^{n+}$ complexes (M: Ni²⁺, Co²⁺, V³⁺, Cr³⁺) probed by absorption and luminescence spectroscopy 509

Nonlinear optical properties

Indium phthalocyanines and naphthalocyanines for optical limiting 235

Nucleic acid–lead(II) interactions

Interactions of lead(II) with nucleotides and their constituents 435

Nucleoside–lead(II) complexes

Interactions of lead(II) with nucleotides and their constituents 435

- Nucleotide–lead(II) complexes
Interactions of lead(II) with nucleotides and their constituents 435
- o*-Benzoquinones
Unique properties of transition metal quinone complexes of the MQ₃ series 415
- Octahedral complexes
Electron-transfer induced isomerizations of coordination compounds 53
- Optical limiting
Indium phthalocyanines and naphthalocyanines for optical limiting 235
- Optically active
Optically active phthalocyanines 99
- Organometallic derivatives
Platinum(IV) hydride chemistry 157
- Oxidation
Catalytic oxidations in carbon dioxide-based reaction media, including novel CO₂-expanded phases 789
- Oxidation catalysis
Ozonolysis in coordination chemistry and catalysis: recent advances 259
- Oxo-ruthenium clusters
Monomeric and extended oxo-centered triruthenium clusters 187
- Ozone
Ozonolysis in coordination chemistry and catalysis: recent advances 259
- Pentacyano-L-metalates
Advances in the coordination chemistry of [M(CN)₅L]^{n−} ions (M = Fe, Ru, Os) 881
- Pharmaceutical agents
Coordination chemistry of vanadium in metallopharmaceutical candidate compounds 1033
- Phenylcyanamide
Phenylcyanamide ligands and their metal complexes 125
- Photochemistry
Dendrimers based on photoactive metal complexes. Recent advances 545
Photoreactivity of gold complexes 489
- Photo-isomerization
Photoswitchable coordination compounds 839
- Photomagnetism
Photoswitchable coordination compounds 839
- Photophysical properties
Luminescent mixed ligand copper(I) clusters (CuI)_n(L)_m (L = pyridine, piperidine): thermodynamic control of molecular and supramolecular species 3
- Photophysics
The effect of deuteration on the emission lifetime of inorganic compounds 761
- Phthalocyanine
Optically active phthalocyanines 99
- Phthalocyanines
Indium phthalocyanines and naphthalocyanines for optical limiting 235
- Polymeric materials
Chemistry, properties and applications of the assembling 1,8-diisocyano-*p*-menthane, 2,5-dimethyl-2',5'-diisocyanohexane and 1,3-diisocyanopropane ligands and their coordination polynuclear complexes 17
- Polynuclear complexes
Chemistry, properties and applications of the assembling 1,8-diisocyano-*p*-menthane, 2,5-dimethyl-2',5'-diisocyanohexane and 1,3-diisocyanopropane ligands and their coordination polynuclear complexes 17
- Pressure-tuning
Effects of high external pressures on the electronic spectra of coordination compounds 713
- Property
Optically active phthalocyanines 99
- Prussian blue analogues
Photoswitchable coordination compounds 839
- Pseudo-aromaticity
Metalloaromaticity 957
- Raman spectroscopy
Coupled electronic states in *trans*-MCl₂(H₂O)₄ⁿ⁺ complexes (M: Ni²⁺, Co²⁺, V³⁺, Cr³⁺) probed by absorption and luminescence spectroscopy 509
- Reactions of coordinated ligands
Advances in the coordination chemistry of [M(CN)₅L]^{n−} ions (M = Fe, Ru, Os) 881
- Redox processes
Electron-transfer induced isomerizations of coordination compounds 53

Reorganizational energies

Correlations of optical and thermal charge transfer 687

Resonance Raman spectra

Resonance Raman spectra of d^6 metal–diimine complexes reflect changes in metal–ligand interaction and character of electronic transition 937

Ring current

Metalloaromaticity 957

Ruthenium

The effect of deuteration on the emission lifetime of inorganic compounds 761

Ruthenium acetate clusters

Monomeric and extended oxo-centered triruthenium clusters 187

Ruthenium polypyridyl complexes

Correlations of optical and thermal charge transfer 687

Silicon in biology

Silicate complexes of aluminum(III) in aqueous systems 665

Silver vanadium oxides

Silver vanadium oxides and related battery applications 283

Sodium nitroprusside

Photoswitchable coordination compounds 839

Solvent expansion

Catalytic oxidations in carbon dioxide-based reaction media, including novel CO_2 -expanded phases 789

Spectral band deconvolution analysis

Assignment of the optical spectra of metal phthalocyanines through spectral band deconvolution analysis and ZINDO calculations 993

Spin crossover

Photoswitchable coordination compounds 839

Spin-exchange

Coupled electron-transfer and spin-exchange reactions 81

d – f Heteronuclear complexes: synthesis, structures and physicochemical aspects 379

Structure–activity relationships

Coordination chemistry of vanadium in metallopharmaceutical candidate compounds 1033

Supercritical

Catalytic oxidations in carbon dioxide-based reaction media, including novel CO_2 -expanded phases 789

Synthesis

Optically active phthalocyanines 99

Synthesis and characterization

Silver vanadium oxides and related battery applications 283

Terminal oxidant

Catalytic oxidations in carbon dioxide-based reaction media, including novel CO_2 -expanded phases 789

Thermodynamic parameters

Coupled electron-transfer and spin-exchange reactions 81

Torque magnetometry

New experimental techniques for magnetic anisotropy in molecular materials 573

Transition metal

η^1 -Indenyl derivatives of transition metal and main group elements: synthesis, characterization and molecular dynamics 311

Transition metal complexes

Correlations of optical and thermal charge transfer 687

Ozonolysis in coordination chemistry and catalysis: recent advances 259

Unique properties of transition metal quinone complexes of the MQ_3 series 415

Transition-metal complexes

Effects of high external pressures on the electronic spectra of coordination compounds 713

Transition-metal dimers

Excited electronic states of transition-metal dimers and the VBCI model: an overview 1075

Trinuclear ruthenium clusters

Monomeric and extended oxo-centered triruthenium clusters 187

Vanadium complexes

Coordination chemistry of vanadium in metallopharmaceutical candidate compounds 1033

Coupled electronic states in *trans*- $\text{MCl}_2(\text{H}_2\text{O})_4^{n+}$ complexes (M : Ni^{2+} , Co^{2+} , V^{3+} , Cr^{3+}) probed by absorption and luminescence spectroscopy 509

VBCI model

Excited electronic states of transition-metal dimers and the VBCI model: an overview 1075

Zeolite synthesis

Silicate complexes of aluminum(III) in aqueous systems 665