

Coordination Chemistry Reviews 230 (2002) III-V



www.elsevier.com/locate/ccr

Subject Index of Volume 230

Absorption spectra

Excited state properties of transition metal phosphine complexes 243

Anions

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α -diimine complexes 107

Artificial photosynthesis

Metal-chelating capacities attached to fullerenes 141

π-Back-donation

Ruthenium d-orbital delocalization in bis(bipyridine)ruthenium derivatives of redox active quinonoid ligands 97

Band shapes

Infrared vibrational band shapes in excited states 213 Bipyridyl complexes

Synthesis of a novel rigid molecule family for the investigation of electron and energy transfer 29

Bond cleavage

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 107

Bridging ligands

Synthesis of a novel rigid molecule family for the investigation of electron and energy transfer 29

The coordination chemistry of 1,2,4,5-tetrazines 127

Bucky-ligands

Metal-chelating capacities attached to fullerenes 141

 C_{60}

Metal-chelating capacities attached to fullerenes 141

Carbonyl

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 107

Charge transfer

Excited state properties of transition metal phosphine complexes 243

4-Chlorophenol

Photocatalytic and photoelectrochemical properties of titania – chloroplatinate(IV) 41

Chloroplatinate(IV)

Photocatalytic and photoelectrochemical properties of titania – chloroplatinate(IV) 41

Crystal structures

Bonding and structural preferences of indenyl complexes: $MInd_2L_n$ (n = 0-3) 49

Cyclic voltammetry

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 107

DFT

Ruthenium d-orbital delocalization in bis(bipyridine)ruthenium derivatives of redox active quinonoid ligands 97

DFT calculations

Bonding and structural preferences of indenyl complexes: $MInd_2L_n$ (n = 0-3) 49

Ligand-to-ligand charge transfer states and photochemical bond homolysis in metal-carbon bonded platinum complexes 193

Diimine

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α -diimine complexes 107

Dinuclear metal complexes

Synthesis of a novel rigid molecule family for the investigation of electron and energy transfer 29

Electrochemistry

Highlights of the spectroscopy, photochemistry and electrochemistry of [M(CO) $_4(\alpha\text{-diimine})$] complexes, M = Cr, Mo, W 225

Electron excitation spectra

A DFT/TDDFT interpretation of the ground and excited states of porphyrin and porphyrazine complexes 5

Electronic spectra

Ruthenium d-orbital delocalization in bis(bipyridine)ruthenium derivatives of redox active quinonoid ligands 97

Electronic structure

The coordination chemistry of 1,2,4,5-tetrazines 127

Electron transfer

Synthesis of a novel rigid molecule family for the investigation of electron and energy transfer 29

Emission

Photophysical, electrochemical and electrochromic properties of copper-bis(4,4'-dimethyl-6,6'-diphenyl-2,2'-bipyridine) complexes 253

Emission spectra

Excited state properties of transition metal phosphine complexes 243

Energy transfer

Synthesis of a novel rigid molecule family for the investigation of electron and energy transfer 29

Excited states

Infrared vibrational band shapes in excited states 213

Flatband potential

Photocatalytic and photoelectrochemical properties of titania – chloroplatinate(IV) 41

Fullerenes

Metal-chelating capacities attached to fullerenes 141

Hapticity

Bonding and structural preferences of indenyl complexes: $MInd_2L_n$ (n = 0-3) 49

Heterocycles

The coordination chemistry of 1,2,4,5-tetrazines 127

Host-guest systems

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

'Hot' electron transfer

The photochemistry of Mo(CNPh)₆: dissociative photosubstitution and evidence for 'hot' electron transfer 165

Indenv

Bonding and structural preferences of indenyl complexes: $MInd_2L_n$ (n = 0-3) 49

INDO

Ruthenium d-orbital delocalization in bis(bipyridine)ruthenium derivatives of redox active quinonoid ligands 97

Infrared

Infrared vibrational band shapes in excited states 213

Inorganic photochemistry

Photophysical, electrochemical and electrochromic properties of copper-bis(4,4'-dimethyl-6,6'-diphenyl-2,2'-bipyridine) complexes 253

Ligand-to-ligand charge transfer states

Ligand-to-ligand charge transfer states and photochemical bond homolysis in metal-carbon bonded platinum complexes 193

Luminescence sensors

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

Macrocyclic ligands

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

Macromolecular synthesis

Metal-chelating capacities attached to fullerenes 141

[M(CO)₄(α-diimine)] complexes

Highlights of the spectroscopy, photochemistry and electrochemistry of [M(CO)₄(α -diimine)] complexes, M = Cr, Mo, W 225

Mechanistic approach

To be or not to be NO in coordination chemistry? A mechanistic approach 263

Metal complexes

Metal-chelating capacities attached to fullerenes 141

Metallocenes

Bonding and structural preferences of indenyl complexes: $MInd_2L_n$ (n = 0-3) 49

Metallocyclophanes

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

MLCT

Highlights of the spectroscopy, photochemistry and electrochemistry of $[M(CO)_4(\alpha\text{-diimine})]$ complexes, M = Cr, Mo, W 225

MLCT complexes

Quantum chemistry and Dick Stufkens photochemistry 65 MLCT states

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 107

Mo(CNPh)

The photochemistry of Mo(CNPh)₆: dissociative photosubstitution and evidence for 'hot' electron transfer 165

Molecular devices

Synthesis of a novel rigid molecule family for the investigation of electron and energy transfer 29

Molecular switches

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

Nitric oxide

To be or not to be NO in coordination chemistry? A mechanistic approach 263

Nitrosyl complexes

To be or not to be NO in coordination chemistry? A mechanistic approach 263

Orbital model

A DFT/TDDFT interpretation of the ground and excited states of porphyrin and porphyrazine complexes 5

Phosphine complexes

Excited state properties of transition metal phosphine complexes 233

Photochemistry

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 171

Excited state properties of transition metal phosphine complexes

Highlights of the spectroscopy, photochemistry and electrochemistry of $[M(CO)_4(\alpha\text{-diimine})]$ complexes, M=Cr, Mo, W 225

Ligand-to-ligand charge transfer states and photochemical bond homolysis in metal-carbon bonded platinum complexes 193

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

Photoinduced energy transfer

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

Photomineralization

Photocatalytic and photoelectrochemical properties of titania – chloroplatinate(IV) 41

Photophysical processes

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

Photosensitization

Photocatalytic and photoelectrochemical properties of titania – chloroplatinate(IV) 41

Photosubstitution reactivity

The photochemistry of Mo(CNPh)₆: dissociative photosubstitution and evidence for 'hot' electron transfer 165

Platinum complexes

Ligand-to-ligand charge transfer states and photochemical bond homolysis in metal-carbon bonded platinum complexes 193 Porphyrin

A DFT/TDDFT interpretation of the ground and excited states of porphyrin and porphyrazine complexes 5

Porphyrines

Metal-chelating capacities attached to fullerenes 141

Quantum chemistry

Quantum chemistry and Dick Stufkens photochemistry 65 Ouinonediimine

Ruthenium d-orbital delocalization in bis(bipyridine)ruthenium derivatives of redox active quinonoid ligands 97

Radical ligands

The coordination chemistry of 1,2,4,5-tetrazines 127

Radical

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 107

Reduction pathway

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 107

Resonance Raman spectroscopy

Ligand-to-ligand charge transfer states and photochemical bond

homolysis in metal–carbon bonded platinum complexes 193 Ruthenium

Ruthenium d-orbital delocalization in bis(bipyridine)ruthenium derivatives of redox active quinonoid ligands 97

Ruthenium complexes

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 107

SBLCT states

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α -diimine complexes 107

Self assembly

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 107

Sigma-bond-to-ligand charge transfer states

Ligand-to-ligand charge transfer states and photochemical bond homolysis in metal-carbon bonded platinum complexes 193

Solar detoxification

Photocatalytic and photoelectrochemical properties of titania-chloroplatinate(IV) 41

Spectroelectrochemistry

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 107

Spectroscopy

Highlights of the spectroscopy, photochemistry and electrochemistry of [M(CO)₄(α -diimine)] complexes, M = Cr, Mo, W 225 Supramolecular chemistry

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

Synthesis

Photophysical, electrochemical and electrochromic properties of copper-bis(4,4'-dimethyl-6,6'-diphenyl-2,2'-bipyridine) complexes 253

Tetrazines

The coordination chemistry of 1,2,4,5-tetrazines 127

Time dependent DFRT

Ruthenium d-orbital delocalization in bis(bipyridine)ruthenium derivatives of redox active quinonoid ligands 97

Titanium dioxide

Photocatalytic and photoelectrochemical properties of titania – chloroplatinate(IV) 41

Transient absorption

Photophysical, electrochemical and electrochromic properties of copper-bis(4,4'-dimethyl-6,6'-diphenyl-2,2'-bipyridine) complexes 253

Transition-metal organometallic complexes

Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors 171

Ultra-fast photodissociation

Quantum chemistry and Dick Stufkens photochemistry 65

Vibrational

Infrared vibrational band shapes in excited states 213

Wavepacket dynamics

Quantum chemistry and Dick Stufkens photochemistry 65

XLCT states

Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl α-diimine complexes 107

X-ray structures

Photophysical, electrochemical and electrochromic properties of copper-bis(4,4'-dimethyl-6,6'-diphenyl-2,2'-bipyridine) complexes 253

ZINDO

Ruthenium d-orbital delocalization in bis(bipyridine)ruthenium derivatives of redox active quinonoid ligands 97