

COORDINATION CHEMISTRY REVIEWS, VOL. 211 (2001)

SUBJECT INDEX

- 
- Amines**  
The crystal structures and doublet emission properties of hexaam(m)ine Cr(III) complexes 45
- Anation**  
Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5
- Barriers**  
Photophysical investigations of rhenium(I)Cl(CO)<sub>3</sub>(phenanthroline) complexes 163
- Capillary electrophoresis**  
Photoredox behavior and chiral discrimination of DNA bound M(diimine)<sub>3</sub><sup>+</sup> complexes (M = Ru<sup>2+</sup>, Cr<sup>3+</sup>) 145
- Charge-transfer states**  
Exciplex quenching of photoexcited platinum(II) terpyridines: influence of the orbital parentage 195
- Chloromercury(II)**  
The crystal structures and doublet emission properties of hexaam(m)ine Cr(III) complexes 45
- Chromium**  
Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5
- Chromium(III)**  
Intermediates in chromium(III) photochemistry 25  
The crystal structures and doublet emission properties of hexaam(m)ine Cr(III) complexes 45
- Cyclopentadienyl carbonyl compounds**  
Mechanisms and intermediates in the photochemistry of M<sub>2</sub>(CO)<sub>6</sub>(η<sup>5</sup>-C<sub>5</sub>H<sub>5</sub>)<sub>2</sub>, where M = Cr, Mo and W, and their ring-coupled analogs 235
- Cyclopentadienyl complexes**  
Electronic spectra and photoreactivity of cyclopentadienyl complexes 223
- Dendrimers**  
Photochemistry and photophysics of Ru(II)–polypyridine complexes in the Bologna group. From early studies to recent developments 97
- 3,3'-Dicarboxyl-2,2'-bipyridine ligand**  
Structure, NMR and other physical and photophysical properties of ruthenium(II) complexes containing the 3,3'-dicarboxyl-2,2'-bipyridine ligand 117
- Diimine**  
Photoredox behavior and chiral discrimination of DNA bound M(diimine)<sub>3</sub><sup>+</sup> complexes (M = Ru<sup>2+</sup>, Cr<sup>3+</sup>) 145
- DNA**  
Photoredox behavior and chiral discrimination of DNA bound M(diimine)<sub>3</sub><sup>+</sup> complexes (M = Ru<sup>2+</sup>, Cr<sup>3+</sup>) 145
- Electrochemiluminescence**  
Photochemistry and photophysics of Ru(II)–polypyridine complexes in the Bologna group. From early studies to recent developments 97
- Electronically excited states**  
Quantitative photochemistry of organometallic complexes: insight to their photophysical and photoreactivity mechanisms 255
- Electronic coupling**  
The effects of electronic coupling and solvent broadening on the intervalent electron transfer of a centrosymmetric mixed-valence complex 177
- Electronic spectra**  
Electronic spectra and photoreactivity of cyclopentadienyl complexes 223

- Electron-transfer processes  
Photochemistry and photophysics of Ru(II)–polypyridine complexes in the Bologna group. From early studies to recent developments 97
- Exciplex quenching  
Exciplex quenching of photoexcited platinum(II) terpyridines: influence of the orbital parentage 195
- Excited-state coordination  
Excited-state acid–base chemistry of coordination complexes 207
- Excited state processes  
Excited state processes at sensitized nanocrystalline thin film semiconductor interfaces 295
- Excited-state proton transfer  
Excited-state acid–base chemistry of coordination complexes 207
- Excited states  
Photophysical investigations of rhenium(I)Cl(CO)<sub>3</sub>(phenanthroline) complexes 163
- Group VI compounds  
Mechanisms and intermediates in the photochemistry of M<sub>2</sub>(CO)<sub>6</sub>(η<sup>5</sup>-C<sub>5</sub>H<sub>5</sub>)<sub>2</sub>, where M = Cr, Mo and W, and their ring-coupled analogs 235
- Ligand-field theory  
Photo-induced metal–ligand bond weakening, potential surfaces, and spectra 69
- Luminescence  
Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317  
Photophysical investigations of rhenium(I)Cl(CO)<sub>3</sub>(phenanthroline) complexes 163  
  
Photoredox behavior and chiral discrimination of DNA bound M(diimine)<sub>3</sub><sup>2+</sup> complexes (M = Ru<sup>2+</sup>, Cr<sup>3+</sup>) 145
- Metal–ligand bond weakening  
Photo-induced metal–ligand bond weakening, potential surfaces, and spectra 69
- Mixed-valence complex  
The effects of electronic coupling and solvent broadening on the intervalent electron transfer of a centrosymmetric mixed-valence complex 177
- Molecular machines  
Photochemistry and photophysics of Ru(II)–polypyridine complexes in the Bologna group. From early studies to recent developments 97
- Molecular probes  
Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317
- Molecular wires  
Photochemistry and photophysics of Ru(II)–polypyridine complexes in the Bologna group. From early studies to recent developments 97
- Nanocrystalline  
Excited state processes at sensitized nanocrystalline thin film semiconductor interfaces 295
- NMR  
Structure, NMR and other physical and photophysical properties of ruthenium(II) complexes containing the 3,3'-dicarboxyl-2,2'-bipyridine ligand 117
- Orbital configurations  
Photophysical investigations of rhenium(I)Cl(CO)<sub>3</sub>(phenanthroline) complexes 163
- Orbital parentage  
Exciplex quenching of photoexcited platinum(II) terpyridines: influence of the orbital parentage 195
- Oxygen  
Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317
- Pentacyanochromate(III) complexes  
Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5
- pH  
Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317
- Phosphorescence  
The crystal structures and doublet emission properties of hexaam(m)ine Cr(III) complexes 45
- Photoanation  
Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5
- Photoanion generation  
Generation of bases and anions from inorganic and organometallic photoinitiators 353

- Photobase generation  
Generation of bases and anions from inorganic and organometallic photoinitiators 353
- Photochemical mechanisms  
Quantitative photochemistry of organometallic complexes: insight to their photophysical and photoreactivity mechanisms 255
- Photochemistry  
Intermediates in chromium(III) photochemistry 25  
Mechanisms and intermediates in the photochemistry of  $M_2(CO)_6(\eta^5-C_5H_5)_2$ , where  $M = Cr, Mo$  and  $W$ , and their ring-coupled analogs 235  
Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5  
Photoredox behavior and chiral discrimination of DNA bound  $M(diimine)_3^{3+}$  complexes ( $M = Ru^{2+}, Cr^{3+}$ ) 145
- Photoinitiation  
Generation of bases and anions from inorganic and organometallic photoinitiators 353
- Photoinitiator  
Generation of bases and anions from inorganic and organometallic photoinitiators 353
- Photophysical processes  
Quantitative photochemistry of organometallic complexes: insight to their photophysical and photoreactivity mechanisms 255
- Photoreactivity  
Electronic spectra and photoreactivity of cyclopentadienyl complexes 223
- Platinum(II) terpyridines  
Exciplex quenching of photoexcited platinum(II) terpyridines: influence of the orbital parentage 195
- Polar radicals  
Solvent cage effects. I. Effect of radical mass and size on radical cage pair recombination efficiency. II. Is geminate recombination of polar radicals sensitive to solvent polarity? 279
- Potential surfaces  
Photo-induced metal–ligand bond weakening, potential surfaces, and spectra 69
- Radiationless transitions  
Photophysical investigations of rhenium(I)- $Cl(CO)_3(phenanthroline)$  complexes 163
- Radical cage pair recombination  
Solvent cage effects. I. Effect of radical mass and size on radical cage pair recombination efficiency. II. Is geminate recombination of polar radicals sensitive to solvent polarity? 279
- Resonance raman  
The effects of electronic coupling and solvent broadening on the intervalent electron transfer of a centrosymmetric mixed-valence complex 177
- Rhenium(I) complexes  
Photophysical investigations of rhenium(I)- $Cl(CO)_3(phenanthroline)$  complexes 163
- Ru(II) Diimines  
Excited-state acid–base chemistry of coordination complexes 207
- Ruthenium(II) complexes  
Structure, NMR and other physical and photophysical properties of ruthenium(II) complexes containing the 3,3'-dicarboxyl-2,2'-bipyridine ligand 117
- Sensors  
Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317
- Solvent broadening  
The effects of electronic coupling and solvent broadening on the intervalent electron transfer of a centrosymmetric mixed-valence complex 177
- Solvent cage effects  
Solvent cage effects. I. Effect of radical mass and size on radical cage pair recombination efficiency. II. Is geminate recombination of polar radicals sensitive to solvent polarity? 279
- Solvent polarity  
Solvent cage effects. I. Effect of radical mass and size on radical cage pair recombination efficiency. II. Is geminate recombination of polar radicals sensitive to solvent polarity? 279
- Spectroscopy  
Photo-induced metal–ligand bond weakening, potential surfaces, and spectra 69
- Thin film semiconductor interfaces  
Excited state processes at sensitized nanocrystalline thin film semiconductor interfaces 295
- Transition metal organometallic compounds  
Quantitative photochemistry of organometallic complexes: insight to their photophysical and photoreactivity mechanisms 255
- Transition state  
Intermediates in chromium(III) photochemistry 25