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Biomimetic Systems; 3.6 Two-State Reactivity; 3.7 Concluding Remarks; References; 4 Experimental Techniques for Determining Spin States; 4.1 Introduction; 4.2 Magnetic Measurements; 4.3 EPR Spectroscopy; 4.4 Mossbauer Spectroscopy; 4.5 X-ray Spectroscopic Techniques; 4.6 NMR Spectroscopy; 4.7 Other Techniques; 4.A Appendix; References; 5 Molecular Discovery in Spin Crossover; 5.1 Introduction 5.2 Theoretical Background 5.3 Thermal SCO Systems: Fe(II); 5.4 SCO in Non-d<sup>6</sup> Systems; 5.5 Computational Methods; 5.6 Outlook; References; 6 Multiple Spin-State Scenarios in Organometallic Reactivity; 6.1 Introduction; 6.2 "Spin-Forbidden" Reactions and Two-State Reactivity; 6.3 Spin-State Changes in Transition Metal Complexes; 6.4 Spin-State Changes in Catalysis; 6.5 Concluding Remarks; References; 7 Principles and Prospects of Spin-States Reactivity in Chemistry and Bioinorganic Chemistry; 7.1 Introduction; 7.2 Spin-States Reactivity 7.3 Prospects of Two-State Reactivity and Multi-State Reactivity 7.4 Concluding Remarks; Acknowledgement; Note Added in Proof; References; 8 Multiple Spin-State Scenarios in Gas-Phase Reactions; 8.1 Introduction; 8.2 Experimental Methods for the Investigation of Metal-Ion Reactions; 8.3 Multiple State Reactivity: Reactions of Metal Cations with Methane; 8.4 Effect of the Oxidation State: Reactions of Metal Hydride Cations with Methane; 8.5 Two-State Reactivity: Reactions of Metal Oxide Cations; 8.6 Effect of Ligands; 8.7 Effect of Noninnocent Ligands; 8.8 Concluding Remarks; References 9 Catalytic Function and Mechanism of Heme and Nonheme Iron(IV)-Oxo Complexes in Nature 9.1 Introduction; 9.2 Cytochrome P450 Enzymes; 9.3 Nonheme Iron Dioxygenases; 9.4 Conclusions; 9.5 Acknowledgments; References; 10 Terminal Metal-Oxo Species with Unusual Spin States; 10.1 Introduction; 10.2 Bonding; 10.3 Case Studies; 10.4 Reactivity; 10.5 Summary; Note Added in Proof; References; 11 Multiple Spin Scenarios in Transition-Metal Complexes Involving Redox Non-Innocent Ligands; 11.1 Introduction; 11.2 Survey of Non-Innocent Ligands; 11.3 Identification of Non-Innocent Ligands 11.4 Selected Examples of Biological and Chemical Systems Involving Non-Innocent Ligands

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Autore	MURTONEN, A.
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Disciplina	492
Soggetti	LINGUE SEMITICHE
Lingua di pubblicazione	Inglese
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