

LISTA DELLE PUBBLICAZIONI DI DANTE GATTESCHI

| | |
|---------------------|--------|
| ACCOUNTS CHEM RES | 13,141 |
| ADV MATER | 9,107 |
| ANGEW CHEM INT EDIT | 9,596 |
| CHEM COMMUN | 4,426 |
| CHEM-EUR J | 4,907 |
| CHEM LETT | 1,83 |
| CHEM MATER | 4,818 |
| CHEM REV | 20,869 |
| CHEM SOC REV | 13,747 |
| DALTON T | 3,003 |
| INORG CHEM | 3,851 |
| INORG CHEM COMMUN | 1,826 |
| INORG CHIM ACTA | 1,606 |
| J AM CHEM SOC | 7,419 |
| J APPL PHYS | 2,498 |
| J CHEM PHYS | 3,138 |
| J COORD CHEM | 1,003 |
| J MAGN RESON | 2,418 |
| J MATER CHEM | 3,688 |
| J PHYS CHEM A | 2,898 |
| J PHYS CHEM B | 4,033 |
| J SOLID STATE CHEM | 1,725 |
| LANGMUIR | 3,705 |
| MATER RES BULL | 1,38 |
| NANO LETT | 9,847 |
| NATURE | 29,273 |
| PHYS CHEM CHEM PHYS | 2,519 |
| PHYS REV B | 3,185 |
| PHYS REV LETT | 7,489 |
| SCIENCE | 30,927 |
| STRUCT BOND | 2,357 |

Lista degli Impact Factor della maggioranza delle riviste riportate nella seguente lista

1. Bertini I., Gatteschi D., Wilson L.J. "A NMR Investigation of the Paramagnetic tris(bipyridine-*N,N*-dioxide) Nickel(II) Complexes", *Inorg. Chim. Acta*, **1970**, 4, 629.
2. Bertini I., Gatteschi D. "Polarized Single Crystal Electronic Spectrum of a High Spin NiN₃O₂ Chromophore", *J. Coord. Chem.*, **1971**, 1, 285.
3. Benelli C., Bertini I., Gatteschi D. "Proton Isotropic Shifts in Pseudo-Tetrahedral Nickel(II) and Cobalt(II) Complexes with Salicylaldimines", *JCS Dalton*, **1972**, 661.
4. Bertini I., Gatteschi D., Scozzafava A. "Proton Magnetic Resonance Spectra of Six-Coordinate Iron(II), Cobalt(II), and Nickel(II) Complexes with Pyridine-N-Oxide and Benzamide", *Inorg. Chim. Acta*, **1972**, 6, 185.
5. Bertini I., Gatteschi D. "Single Crystal Polarized Electronic Spectra of the Cu(en)₃SO₄ Complex", *Inorg. Nucl. Chem. Letters*, **1972**, 8, 207.

6. Bertini I., Ciampolini M., Dapporto P., Gatteschi D. "Polarized Single Crystal Spectrum of a High Spin Trigonal Bipyramidal NiN₅ Chromophore", *Inorg. Chem.*, **1972**, 11, 2254.
7. Bertini I., Gatteschi D., Mani F. "Single Crystal Electronic Spectra of a NiPI₃ Chromophore", *Inorg. Chem.*, **1972**, 11, 2464.
8. Sacconi L., Gatteschi D. "Nickel(II) Complexes with an Open Chain Tetradentate Nitrogen Arsenic Ligand", *J. Coord. Chem.*, **1972**, 2, 107.
9. Dapporto P., Gatteschi D. "Isothiocyanato tris(2-dimethylaminoethyl) Amine Nickel(II) Thiocyanate Monohydrate", *Cryst. Struct. Comm.*, **1973**, 2, 173.
10. Bertini I., Ciampolini M., Gatteschi D. "Single Crystal Polarized Electronic Spectra of a CoN₅ Chromophore", *Inorg. Chem.*, **1973**, 12, 693.
11. Gatteschi D., Mealli C., Sacconi L. "A Dinuclear Complex of 1.5 Valent Nickel", *J. Am. Chem. Soc.*, **1973**, 95, 2736.
12. Bertini I., Gatteschi D., Martini G. "Single Crystal Polarized Electronic and Electron Spin Resonance Spectra of Dichloro bis(triphenylphosphine oxide) Copper(II)", *JCS Dalton*, **1973**, 1644.
13. Bertini I., Gatteschi D. "Proton Magnetic resonance Spectra of Nickel(II) and Cobalt(II) 1,8-Naphthyridine Complexes. A Comparison among the Contact Shift Patterns of Heterocyclic Nitrogen Ligands", *Inorg. Chem.*, **1973**, 12, 1740.
14. Bertini I., Gatteschi D., Mani F. "Single Crystal Polarized Electronic Spectra of Tetra-*n*-butyl ammonium Tribromo (quinoline) Cobaltate(II)", *Inorg. Chim. Acta*, **1973**, 7, 717.
15. Sacconi L., Mealli C., Gatteschi D. "Synthesis and Characterization of 1,8-Naphthyridine Complexes of 1.5 Valent Nickel(II)", *Inorg. Chem.*, **1974**, 13, 1985.
16. Bertini I., Gatteschi D., Scozzafava A. "Single Crystal ESR Study of the Cu(en)₃SO₄ Complex", *Inorg. Chim. Acta*, **1974**, 11, 117.
17. Bertini I., Gatteschi D., Scozzafava A. "Single Crystal ESR Spectra of bis-*N-t*-butylpyrrol-2-alimine Copper(II) Complexes", *Gazz. Chim. It.*, **1974**, 104, 1029.
18. Dei A., Gatteschi D., Sacconi L. "Enthalpies of Formation of Five Coordinate High Spin Tetrakis(methyl-diphenyl-arsine oxide) Diperchlorate 3d Metal Complexes", *Gazz. Chim. It.*, **1974**, 104, 1033.
19. Bertini I., Gatteschi D., Scozzafava A. "Single Crystal Polarized Electronic Spectra of the Complex Bis(*N-t*-butylpyrrole-2-carbaldimino) Cobalt(II)", *Inorg. Chim. Acta*, **1975**, 13, 145.
20. Bertini I., Gatteschi D., Scozzafava A. "Ligand Field Interpretation of High Spin Trigonal Bipyramidal Cobalt(II) Complexes", *Inorg. Chem.*, **1975**, 14, 812.
21. Bertini I., Dapporto P., Gatteschi D., Scozzafava A. "Single crystal Polarized Electronic Spectra of Pentakis(2-picoline-*N*-oxide) Cobalt(II) Perchlorate Complex", *Inorg. Chem.*, **1975**, 14, 1639.
22. Bertini I., Gatteschi D., Paoletti P., Scozzafava A. "A Comment on the Jahn-Teller Effect in the Complex K₂PbCu(NO₂)₆", *Inorg. Chim. Acta*, **1975**, 13, L15.
23. Gatteschi D., Krausz E. "Single Crystal MCD of Five Coordinate Co(II) and Ni(II) Complexes", *Chem. Phys. Letters*, **1975**, 34, 348.
24. Bertini I., Gatteschi D., Scozzafava A. "Single Crystal Electronic Spectra and Ligand Field Parameters of Some Nickel(II) Amine-Isothiocyanato and Amine-Nitrito Complexes", *Inorg. Chem.*, **1976**, 15, 203.
25. Bencini A., Gatteschi D. "Ligand Field Spin Orbit Coupling Calculations for d₇, d₈, d₉, d₃, d₂, d₁ Five Coordinate Complexes of C_{3v} Symmetry", *J. Phys. Chem.*, **1976**, 80, 2126.
26. Gatteschi D., Mealli C., Sacconi L. "Synthesis and Characterization of the Mixed valence Copper Complex Trichloro bis(4-methyl-1,8-naphthyridine) Dicopper(II)", *Inorg. Chem.*, **1976**, 15, 2774.
27. Gatteschi D., Scozzafava A. "Single Crystal Polarized Electronic Spectra of a Five Coordinate Macrocyclic Complex of Nickel(II)", *Inorg. Chim. Acta*, **1977**, 21, 223.
28. Barbucci R., Bencini A., Gatteschi D. "ESR Spectra and Spin Hamiltonian Parameters for Trigonal Bipyramidal Nickel(I) and Copper(II) Complexes", *Inorg. Chim. Acta*, **1977**, 16, 2117.
29. Bertini I., Gatteschi D., Scozzafava A. "Jahn-Teller Distortions of the Tris ethylenediamine Copper Complexes", *Inorg. Chem.*, **1977**, 16, 1973.

30. Bencini A., Gatteschi D. "Single Crystal Polarized Electronic Spectra of the Trigonal Bipyramidal Complex Monoaquo bis(1,10-phenanthroline) Copper(II) Nitrate", *Inorg. Chem.*, **1977**, 16, 1994.
31. Bencini A., Gatteschi D. "ESR Spectra of Low Symmetry Pseudotetrahedral High Spin Cobalt(II) Complexes. Tetra-*n*-butyl Ammonium Tribromo (quinoline) Cobaltate(II)", *Inorg. Chem.*, **1977**, 16, 2141.
32. Bertini I., Gatteschi D., Scozzafava A. "Ligand Field Parameters", *Isr. J. Chem.*, **1977**, 15, 188.
33. Bertini I., Dapporto P., Gatteschi D., Scozzafava A. "X-Ray and ESR Investigation of an Elongated Octahedral Tris(1,2-diaminoethane) Copper(II) Complex", *Solid State Comm.*, **1978**, 26, 749.
34. Bencini A., Gatteschi D., Sacconi L. "ESR Investigation of the Mixed valence Dinuclear Tetra(μ -1,8-naphthyridine-*N,N*) Bis Bromo Nickel Tetraphenylborate Complex", *Inorg. Chem.*, **1978**, 17, 2670.
35. Bencini A., Benelli C., Gatteschi D., Sacconi L. "ESR Spectra of a Trigonal Distorted Pseudotetrahedral Nickel(I) Complex", *Inorg. Chim. Acta*, **1978**, 29, L243.
36. Bencini A., Gatteschi D. "Angular overlap Interpretation of the Magnetic properties of Copper(II) Dimers", *Inorg. Chim. Acta*, **1978**, 31, 11.
37. Gatteschi D., Ghilardi C.A., Orlandini A., Sacconi L. "Low Temperature Crystal Structure and Electron Spin Resonance Spectra of Bis(isothiocyanato)-*N*-(2-diphenyl-phosphino)ethyl)-*N,N*-diethylenediamine Cobalt(II), a Five Coordinate Complex Exhibiting Spin Equilibrium", *Inorg. Chem.*, **1978**, 17, 3023.
38. Bencini A., Bertini I., Gatteschi D., Scozzafava A. "Single Crystal ESR Spectra of copper(II) Complexes with Geometries Intermediate between a Square pyramid and a Trigonal Bipyramid", *Inorg. Chem.*, **1978**, 17, 3194.
39. Bencini A., Benelli C., Gatteschi D. "Single crystal polarized Electronic Spectra of the Dimeric Tetrakis(μ -benzoato-*O,O'*) Bis(quinoline Dicobalt(II))", *Inorg. Chem.*, **1978**, 17, 3313.
40. Dei A., Gatteschi D., Piergentili E. "Magnetic Resonance Spectra of Some Mixed Metal Paramagnetic dinuclear Complexes with 2-pyridyl-methyl-ketazine", *Inorg. Chem.*, **1979**, 18, 89.
41. Bencini A., Gatteschi D., Mealli C. "Tetra- μ -benzoato-bis quinoline Dicopper(II), $C_{46}H_{34}Cu_2N_2O_8$ ", *Cryst. Struct. Comm.*, **1979**, 8, 305.
42. Bencini A., Gatteschi D. "A Ligand Field Model for the Hyperfine Interaction in the EPR Spectra of Low Symmetry transition metal complexes", *J. Magn. Reson.*, **1979**, 34, 653.
43. Bencini A., Benelli C., Gatteschi D., Zanchini C. "ESR Spectra of Low Symmetry High Spin Cobalt(II) Complexes. 2. Pseudotetrahedral Dichloro bis(triphenylphosphine oxide) Cobalt(II)", *Inorg. Chem.*, **1979**, 18, 2137.
44. Bencini A., Benelli C., Gatteschi D., Zanchini C. "ESR Spectra of Low Symmetry High Spin Cobalt(II) Complexes. 3. Square Pyramidal Nitrate tetrakis(methyl diphenyl arsine oxide) Cobalt(II)", *Inorg. Chem.*, **1979**, 18, 2526.
45. Banci L., Bencini A., Gatteschi D., Dei A. "Single Crystal ESR Spectra of a Heterodinuclear Copper(II)-Nickel(II) Tetra Schiff Base Macrocyclic Complex", *Inorg. Chim. Acta*, **1979**, 36, 1419.
46. Bertini I., Gatteschi D., Scozzafava A. "Six Coordinate Copper(II) Complexes with $g_{\parallel} < g_{\perp}$ in the Solid State", *Coord. Chem. Rev.*, **1979**, 29, 67.
47. Bertini I., Dapporto P., Gatteschi D., Scozzafava A. "Static-Dynamic Distortions of the Cation $Cu(en)_3^{2+}$. X-Ray Structures of $Cu(en)_3SO_4$ at 120 K and $Cu(en)_3Cl_2 \cdot 0.75(en)$ at 298 K", *JCS Dalton*, **1979**, 1409.
48. Bencini A., Benelli C., Gatteschi D., Sacconi L. "ESR Spectra of Halo 1,1,1-tris (diphosphinomethyl)ethane Nickel(I) Complexes", *Inorg. Chim. Acta*, **1979**, 37, 195.
49. Gatteschi D. "ESR and NMR Spectra of Exchange Coupled Transition Metal Ions" in "ESR and NMR of Paramagnetic Species in Biological Systems", Bertini I., Drago R.S., Eds., Reidel, Dordrecht **1979**, 255.
50. Bencini A., Benelli C., Gatteschi D., Zanchini C. "ESR Spectra of Low Symmetry High Spin Cobalt(II) Complexes. 5. Pseudotetrahedral Tetra-*n*-Butyl Ammonium Tribromo quinoline Cobaltate(II) and the Calculation of the A, Tensor", *J. Mol. Structure*, **1980**, 60, 401.

51. Bencini A., Benelli C., Gatteschi D., Zanchini C. "ESR Spectra of Low Symmetry High Spin Cobalt(II) Complexes. 4. Tetragonal Octahedral Dichloro Tetrapyrindine and Dichloro tetrapyrazole Cobalt(II)", *Inorg. Chem.*, **1980**, *19*, 1301.
52. Bencini A., Benelli C., Gatteschi D. "Nature of the Phase Transition in $[(C_2H_5)_4N]_2MCl_4$ (M= Co, Cu)", *Inorg. Chem.*, **1980**, *19*, 1632.
53. Bencini A., Gatteschi D., Zanchini C. "Anomalous Spin Hamiltonian Parameters of Pseudotetrahedral Copper(II) Complexes. ESR Spectra of Copper(II) Doped Dichloro bis(triphenylphosphine oxide) Zinc(II)", *J. Am. Chem. Soc.*, **1980**, *102*, 5234.
54. Bencini A., Benelli C., Gatteschi D., Zanchini C. "Exchange Interactions in Copper(II)-Nickel(II) and Nickel(II)-Nickel(II) Pairs in Tetra (μ -benzoato-*O,O'*) bis(quinoline Dimetal(II) Complexes)", *J. Am. Chem. Soc.*, **1980**, *102*, 5820.
55. Bencini A., Benelli C., Gatteschi D., Zanchini C. "ESR Spectra of Low Symmetry High Spin Cobalt(II) Complexes. 6. 6-Methyl-quinoline, Pyridine, and Water Adducts of Cobalt(II) Acetylacetonate", *Inorg. Chem.*, **1980**, *19*, 3027.
56. Bencini A., Benelli C., Gatteschi D., Zanchini C. "ESR Spectra of Low Symmetry High Spin Cobalt(II) Complexes. 7. Trigonal Bipyramidal Pentakis (picoline-*N*-oxide) Cobalt(II) Perchlorate", *Inorg. Chem.*, **1980**, *19*, 3839.
57. Bencini A., Benelli C., Gatteschi D., Zanchini C. "ESR Spectra of Low Symmetry High Spin Cobalt(II) Complexes. 8. Observation of ESR Spectra of Dichloro Tetrakis pyrazole Cobalt(II) Doped into Paramagnetic Nickel(II) Analogue", *Inorg. Chim. Acta*, **1980**, *45*, 1127.
58. Bencini A., Gatteschi D. "ESR Spectra of Metal Complexes of the First transition Series in Low Symmetry Environments", *Trans. Met. Chem.*, Figgis, B.N., Melson, G., Eds, Marcel Dekker, New York, **1982**, *8*, 1.
59. Banci L., Bencini A., Dei A., Gatteschi D. "ESR Spectra of Cobalt(II) Doped bis (*N,N*-diethylamino-ethyl)-*N*-2-ethoxamine Dinickel(II) Diperchlorate. The Characterization of Nickel(II)-Cobalt(II) and Nickel(II)-Copper(II) Exchange Coupled Pairs", *Inorg. Chem.*, **1981**, *20*, 393.
60. Banci L., Bencini A., Dapporto P., Dei A., Gatteschi D. "Crystal and Molecular structure and ESR Spectra of a Dimeric Dialkoxo Bridged Five Coordinate Copper(II) Complex", *Inorg. Chem.*, **1981**, *19*, 3395.
61. Banci L., Bencini C., Benelli C., Gatteschi D. "ESR Spectra of Low Symmetry High Spin Cobalt(II) Complexes. 9. Theoretical Considerations on Tetrahedral and Five Coordinate Complexes", *Nouv. J. Chim.*, **1980**, *4*, 593.
62. Bencini A., Bertini I., Canti G., Gatteschi D., Luchinat C. "The EPR Spectra of the Inhibitor Derivatives of Cobalt Carbonic Anhydrase", *Inorg. Biochem.*, **1981**, *14*, 81.
63. Banci L., Bencini A., Benelli C., Dei A., Gatteschi D. "ESR Spectra of Nickel(II)-Copper(II) and Nickel(II)-Cobalt(II) Exchange Coupled pairs in Transition Metal Dinuclear triketonate Complexes", *Inorg. Chem.*, **1981**, *20*, 1399.
64. Bencini A., Gatteschi D., Zanchini C., Wicholas M. "ESR Spectra of the Square Pyramidal Iodo Difluoro-3,3'-(trimethylene dinitrilo) bis(butane oximate) Borato Copper(II) Complex", *Inorg. Chim. Acta*, **1981**, *49*, 1.
65. Banci L., Bencini A., Gatteschi D. "EPR Spectra and Zero Field Splitting of Exchange coupled Copper(II)-Manganese(II) Pairs", *Inorg. Chem.*, **1981**, *20*, 2734.
66. Banci L., Benelli, C. Gatteschi D. "Magnetic resonance Spectra of a Heterodinuclear (Ni-Co) Metal Complex", *Inorg. Chem.*, **1981**, *20*, 4397.
67. Banci L., Benelli C., Gatteschi D., Mani F. "Unusual electronic Spectra of the Pseudo-tetrahedral Complex (tris((3,5-dimethyl-1-pyrazolyl)ethyl)amine)", *Inorg. Chem.*, **1982**, *21*, 1133.
68. Benelli C., Dei A., Gatteschi D. "Proton relaxation Enhancement in Paramagnetic Dinuclear Transition Metal Complexes", *Inorg. Chem.*, **1982**, *21*, 1284.
69. Banci L., Bencini A., Gatteschi D., Zanchini C. "EPR Spectra of Triplet States with Large Zero Field Splitting. $[Cu(bipy)(OH)]_2SO_4 \cdot 4H_2O$ ", *J. Magn. Reson.*, **1982**, *48*, 9.
70. Banci L., Bencini A., Gatteschi D. "Dynamic Behavior of the Adduct of Copper(II) Bis(hexafluoroacetylacetonate) with a Bidentate Complex Ligand", *Inorg. Chem.*, **1982**, *21*, 1572.

71. Benelli C., Gatteschi D. "ESR Spectra of Low symmetry High Spin Cobalt(II) Complexes. 10. Five Coordinate Trigonal Bipyramidal Complexes", *Inorg. Chem.*, **1982**, 21, 1788.
72. Banci L., Bencini A., Benelli C., Gatteschi D., Zanchini C. "Spectral Structural Correlations in High Spin Cobalt(II) Complexes", *Structure and Bonding (Berlin)*, **1982**, 52, 37.
73. Bencini A., Gatteschi D. "The Effect of Antisymmetric Exchange on the EPR Spectra of Coupled Pairs of Transition Metal Ions", *Mol. Phys.*, **1982**, 47, 161.
74. Dei A., Gatteschi D. "Nickel(II) Bleomycin: Spectral Investigation of the Metal Binding Site", *J. Inorg. Biochem.*, **1982**, 17, 131.
75. Banci L., Dei A., Gatteschi D. "Vanadyl Binding to Bleomycin", *Inorg. Chim. Acta*, **1982**, 67, 153.
76. Banci L., Bencini A., Benelli C., Di Vaira M., Gatteschi D. "Structure and magnetic Properties of the Tetranuclear $[\text{Cu}(\text{SALMedpt})\text{Cu}(\text{hfa})_2]_2 \cdot 0.6\text{CHCl}_3$ Complex Formed by Hexafluoroacetylacetonate and by the Pentadentate *N,N*-[4-methyl-4-azaheptane-1,7-diy]bis(salicylaldiminate) Ligand", *Inorg. Chem.*, **1982**, 21, 3801.
77. Banci L., Bencini A., Benelli C., Gatteschi D. "Exchange Interactions in Heterodinuclear Complexes with One Ion Possessing an orbitally Degenerate Ground State. Nickel(II)-Cobalt(II) Pairs in Diaquo(1,4-dihydrizinophthalazine) Nickel(II) Chloride Hydrate", *Inorg. Chem.*, **1982**, 21, 3868.
78. Gatteschi D. "Structural Magnetic Correlations in Exchange Coupled Systems" in *The Coordination Chemistry of Metalloenzymes*, Bertini I., Drago R.S., Luchinat C., Eds., Reidel, Dordrecht, **1983**, p. 215.
79. Banci L., Bencini A., Gatteschi D. "Correlation between Anisotropic Exchange and Structure of Di- μ -hydroxo Bridged Copper(II) Complexes", *J. Am. Chem. Soc.*, **1983**, 105, 761.
80. Bencini A., Benelli C., Gatteschi D. "Preparation of $\text{Co}_2(\text{tren})_2\text{OH}(\text{ClO}_4)_3 \cdot \text{H}_2\text{O}$ (tren=tris(2-aminoethyl)amine) and Magnetic Exchange Interaction in Binuclear monohydroxo Bridged Copper(II) and Cobalt(II) Complexes", *Inorg. Chem.*, **1983**, 22, 470.
81. Bencini A., Benelli C., Gatteschi D., Zanchini C. "-Bonding Interactions of Non-linearly Ligating Ligands with Octahedral Cobalt(II) Complexes", *Inorg. Chem.*, **1983**, 22, 2123.
82. Banci L., Bencini A., Gatteschi D. "EPR Spectra of Trinuclear Complexes. Octachloro Diadeninium Tricopper(II)", *Inorg. Chem.*, **1983**, 22, 2681.
83. Bencini A., Gatteschi D. " $X\alpha$ Calculations of the EPR Parameters of Pseudotetrahedral Copper(II) Complexes", *J. Am. Chem. Soc.*, **1983**, 105, 5535.
84. Banci L., Bencini A., Dei A., Gatteschi D. "EPR Spectra of and exchange interactions in Trinuclear Complexes. 2. Metal(II) Adducts of tetradentate Schiff Base Copper(II) Complexes", *Inorg. Chem.*, **1983**, 22, 4018.
85. Banci L., Benelli C., Gatteschi D. "Dynamic Jahn-Teller Effect in High Spin Trigonal Bipyramidal Nickel(II) Complexes", *Inorg. Chem.*, **1984**, 23, 3262.
86. Bencini A., Di Vaira M., Fabretti A.C., Gatteschi D., Zanchini C. "Anisotropic Exchange in Transition Metal Dinuclear Complexes. 2. Crystal and Molecular Structure and EPR Spectra of a Dinuclear Copper Oxamidato Complex", *Inorg. Chem.*, **1984**, 23, 1620.
87. Banci L., Bencini C., Gatteschi D. "Anisotropic Exchange in Transition Metal Dinuclear Complexes. 3. Di- μ -1,3-azido bis(1,1,4,7,7-pentamethyl diethylenetriamine) dicopper(II) Bis(tetraphenylborate)", *Inorg. Chem.*, **1984**, 23, 2138.
88. Benelli C., Gatteschi D., Zanchini C. "Electronic Structure of the Nitroxyl Complex Bis(di-*tert*-butyl) Nitroxide Cobalt(II) Bromide", *Inorg. Chem.*, **1984**, 23, 798.
89. Gatteschi D. "Factors Affecting the EPR Spectra of Exchange Coupled Pairs of transition Metal Ions", *J. Mol. Catalysis*, **1984**, 23, 145.
90. Gatteschi D., Bencini A. "EPR Spectra of Oligonuclear Complexes" in *Magneto-Structural Correlations in Exchange Coupled Systems*, Willett R.D., Gatteschi D., Kahn O., Eds. Reidel, Dordrecht, **1985**, 241.
91. Banci L., Bencini A., Dei A., Gatteschi D. "X-ray Crystal Structure of Bis (N,N'-ethylene bis(salicyldeneiminato) Oxovanadium(V) Di- μ -chloro Dicopper(I) Chloride, a Compound with a Three Coordinate Copper(I) Chloride", *Inorg. Chim. Acta*, **1984**, 84, L11.
92. Bencini A., Benelli C., Gatteschi D., Zanchini C., Fabretti A.C., Franchini G.C. "Exchange Coupling in Dinuclear Copper(II) Complexes with Oxamato Ligands", *Inorg. Chim. Acta*, **1984**, 86, 169.

93. Bencini A., Benelli C., Gatteschi D., Zanchini C. "Exchange Interactions in Bis(hexafluoroacetylacetonato)(4-hydroxy-2,2,6,6-tetramethyl-piperidiny-N-oxy) Copper(II): a Nitroxyl Radical Complex of Copper(II)", *J. Am. Chem. Soc.*, **1984**, *106*, 5813.
94. Bencini A., Benelli C., Gatteschi D. "The Angular Overlap Model for the Description of the Paramagnetic Properties of Transition Metal Complexes", *Coord. Chem. Rev.*, **1984**, *60*, 131.
95. Benelli C., Bunting R.K., Gatteschi D., Zanchini C. "Magnetic Coupling and EPR Spectra of Catena-di- μ -perchlorato di- μ -imidazolato-diperchlorato-octa-imidazolo-tricopper(II)", *Inorg. Chem.*, **1984**, *23*, 3074.
96. Bencini A., Benelli C., Dei A., Gatteschi D. "EPR Spectra of and Exchange Interactions in Trinuclear Complexes. 3. Synthesis, Crystal Structure and Magnetic Properties of the Oxovanadium(IV) Adduct of a Tetradentate Schiff Base Copper(II) Complex", *Inorg. Chem.*, **1985**, *24*, 695.
97. Bencini A., Gatteschi D. "Calculating EPR Spin Hamiltonian Parameters of Transition Metal Complexes", *Comments Inorg. Chem.*, **1985**, *4*, 99.
98. Benelli C., Gatteschi D., Speroni G.P. "Electronic Structure and Magnetic Coupling of Two Dinuclear Trigonal Bipyramidal Cobalt(II) Complexes", *Inorg. Chim. Acta*, **1984**, *90*, 179.
99. Boillot M.L., Journaux Y., Bencini A., Gatteschi D., Kahn O. "Single Crystal EPR Study of $\text{Cu}_2(\text{t-bupy})_4(\text{N}_3)_2(\text{ClO}_4)_2$ with t-bupy = 4-ter-butyl pyridine: Anisotropic Exchange in a Ferromagnetically Coupled Copper(II) Binuclear Complex", *Inorg. Chem.*, **1985**, *24*, 263.
100. Bencini A., Gatteschi D., Reedijk J., Zanchini C. "Anisotropic Exchange in Transition Metal Dinuclear Complexes. 4. (μ -Benzotriazoalto-N₁,N₃)bis tris(N₁-methyl menzimidazolo-2-ylmethyl)amine-N,N₁,N₃,N₁ Copper(II) Trinitrate", *Inorg. Chem.*, **1985**, *24*, 207.
101. Bencini A., Gatteschi D., Zanchini C. "Anisotropic Exchange in Transition Metal Dinuclear Complexes. 5. Di- μ -hydroxo bis di(2-methylimidazole) Copper(II) Diperchlorate Dihydrate", *Inorg. Chem.*, **1985**, *24*, 700.
102. Bencini A., Gatteschi D., Zanchini C. "Anisotropic Exchange in Transition Metal Dinuclear Complexes. 6. Di- μ -chloro Bis(dichloro cuprates(II))", *Inorg. Chem.*, **1985**, *24*, 704.
103. Bencini A., Gatteschi D. "The Effect of the Local Zero Field Splitting of the Nickel(II) Ion on the EPR Spectra of Exchange Coupled Copper(II) (S=1/2)-Nickel(II) (S=1) Pairs", *Mol. Phys.*, **1985**, *54*, 969.
104. Bencini A., Gatteschi D., Zanchini C., Haase W. "Anisotropic Exchange in Transition Metal Dinuclear Complexes. 7. Di- μ -(2-diethylamino ethanolato) Dibromo Copper(II)", *Inorg. Chem.*, **1985**, *24*, 3485.
105. Benelli C., Gatteschi D., Carnegie D.W. Jr., Carlin R.L. "A Linear Chain with Alternating Ferromagnetic and Antiferromagnetic Exchange: $\text{Cu}(\text{hfac})_2\text{TEMPOL}$ ", *J. Am. Chem. Soc.*, **1985**, *107*, 2560.
106. Benelli C., Gatteschi D. "Magnetic properties of a Polymeric N,N-Ethylene bis(salicyldeneiminato) Oxovanadium(IV) Derivative", *Inorg. Chim. Acta*, **1985**, *100*, L29.
107. Bencini A., Benelli C., Caneschi A., Carlin R.L., Dei A., Gatteschi D. "Crystal and Molecular Structure of and magnetic Coupling in Two Complexes Containing Gadolinium(III) and Copper(II) Ions", *J. Am. Chem. Soc.*, **1985**, *107*, 8128.
108. Bencini A., Gatteschi D., Zanchini C. "An Orbital Model for the Exchange Interaction between Low Spin Iron(III) and Copper(II) Ions", *Mol. Phys.*, **1985**, *56*, 97.
109. Bencini A., Gatteschi D., Zanchini C., Haasnoot J.C., Prins R., Reedijk J. "EPR Spectra of Binuclear Triazolato- and Imidazolato Bridged Copper(II) Complexes Including the Four-Copper Form of Bovine Erythrocyte Superoxide Dismutase", *Inorg. Chem.*, **1985**, *24*, 2812.
110. Journaux Y., Kahn O., Morgenstern-Badarau I., Galy J., Jaud J., Bencini A., Gatteschi D. "Crystal Structure, Magnetic Properties and Single Crystal EPR Spectra of a $[\text{CuNi}]_2$ Bis Hetero Binuclear Compound. Complementarity of the Magnetic and Techniques", **1985**, *107*, 6305.
111. Benelli C., Gatteschi D., Carlin R.L. "Magnetic properties of the Ternary Complex Bis(adenosine-5-O-triphosphato) (2,2'-bipyridine) Copper(II) Tetrahydrate", *Inorg. Chem.*, **1985**, *24*, 3081.

112. Bencini A., Benelli C., Gatteschi D., Zanchini C. "Magnetic Coupling in a Linear Chain Copper(II) Imidazolate Compound. Mechanism of Exchange Interaction Through Bridging Imidazolate Ligands", *Inorg. Chem.*, **1986**, 25, 398.
113. Bencini A., Benelli C., Fabretti A.C., Franchini, G.C., Gatteschi, D. "Magnetic properties and Crystal Structure of a Linear Chain Copper(II) Compound with Bridging Acetate and Oxamidate Ligands", *Inorg. Chem.*, **1986**, 25, 1063.
114. Bencini, A., Benelli C., Caneschi A., Dei A., Gatteschi D. "Magnetic Properties of a Trinuclear Complex Containing Exchange Coupled GdCu₂ Species", *J. Magn. Magn. Materials*, **1986**, 54, 1485.
115. Bencini A., Benelli C., Caneschi A., Dei A., Gatteschi D. "Crystal and Molecular Structure and Magnetic Properties of a Trinuclear Complex Containing Exchange Coupled GdCu₂ Species", *Inorg. Chem.*, **1986**, 25, 572.
116. Charlot M.F., Journaux Y., Kahn O, Bencini A., Gatteschi D., Zanchini C. "Anisotropic Exchange in Bridged Copper(II) Dimers: a topological Approach", *Inorg. Chem.*, **1986**, 25, 1060.
117. Bencini A., Gatteschi D. "X α -SW Calculation of the Electronic Structure and Magnetic Properties of 2-Planar and Pseudotetrahedral Cu₂Cl₆ Dimers", *J. Am. Chem. Soc.*, **1986**, 108, 5763.
118. Bencini A., Caneschi A., Dei A., Gatteschi D., Zanchini C., Kahn O. "Low Lying Electronic Energy Levels in a Series of Heterodinuclear Complexes Containing Octahedral Nickel(II) and Tetrahedral Metal(II) (Copper, Cobalt, Manganese) Species", *Inorg. Chem.*, **1986**, 25, 1374.
119. Bencini A., Gatteschi D., Zanchini C. "Anisotropic Exchange in Transition Metal Dinuclear Complexes. 8. Bis(μ -pyridine-*N*-oxide) bis[dichloro (dimethyl sulfoxide) Copper(II)]", *Inorg. Chem.*, **1986**, 25, 2211.
120. Benelli C., Gatteschi D., Zanchini C., Doedens R.J., Dickman M.H., Porter L.C. "EPR Spectra of Bis-Nitroxyl Adducts of Bis(hexafluoroacetylacetonato) Manganese(II)", *Inorg. Chem.*, **1986**, 25, 3453.
121. Benelli C., Gatteschi D., Zanchini C., Latour J.M., Rey P. "Weak Exchange Interactions Between Nitroxides and Copper(II) Ions Monitored by EPR Spectroscopy", *Inorg. Chem.*, **1986**, 25, 4242.
122. Laugier J., Rey P., Benelli C., Gatteschi D., Zanchini C. "Unusual Magnetic Properties of the Adduct of Copper Chloride with 2-Phenyl-4,4,5,5-tetramethyl-imidazoline-3-oxide-1-oxy", *J. Am. Chem. Soc.*, **1986**, 108, 6931.
123. Bencini A., Benelli C., Gatteschi D., Zanchini C. "EPR as a Necessary Complement of Magnetic Measurements in Exchange Coupled Systems", *Proc. Ind. Acad. Sci.*, **1987**, 98, 13.
124. Bencini A., Gatteschi D., Zanchini C., Kahn O., Verdagner M., Julve M. "EPR Evidence for an Unexpected Symmetric Dinuclear Species Present in the Lattice of an Asymmetric Dinuclear Copper Complex", *Inorg. Chem.*, **1986**, 25, 3181.
125. Pei Y., Journaux Y., Kahn O., Dei A., Gatteschi D. "A Mn(II)Cu(II)Mn(II) Trinuclear Species with a S = 9/2 Ground State", *JCS Chem. Comm.*, **1986**, 1300.
126. Gatteschi D., Laugier J., Rey P., Zanchini C. "Crystal and Molecular Structure and Magnetic Properties of the Adducts of Copper(II) Hexafluoroacetylacetonate with the Nitroxide Ligand 2-Phenyl-4,4,5,5-Tetramethylimidazoline-3-oxide-1-oxy", *Inorg. Chem.*, **1987**, 26, 938.
127. Caneschi A., Gatteschi D., Laugier J., Rey P. "Ferromagnetic Alternating Spin Chains", *J. Am. Chem. Soc.*, **1987**, 109, 2191.
128. Bencini A., Gatteschi D., Zanchini C., Haasnot J.G., Prins R., Reedijk J. "On the Nature of the Low-Lying Electronic Levels of a Tetranuclear Copper(II) Complex", *J. Am. Chem. Soc.*, **1987**, 109, 2926.
129. Benelli C., Gatteschi D., Zanchini C. "Angular Overlap Analysis of the Iron(II) Site in [2Fe-2S] Clusters", *Biochim. Biophys. Acta*, **1987**, 893, 365.
130. Benelli C., Caneschi A., Gatteschi D., Laugier J., Rey P. "X-Ray Crystal Structure and Magnetic Properties of a Gadolinium Hexafluoroacetylacetonate Adduct with 2-Phenyl-4,4,5,5-Tetramethylimidazoline-3-Oxide-1-Oxy", *Angew. Chem. Int. Edit.*, **1987**, 26, 913.
131. Caneschi A., Gatteschi D., Zanchini C., Rey P. "Electron Spin Resonance Spectra of a Ferromagnetic Alternating Spin Chain (S₁ = 1/2, S₂ = 1/2)", *J. Chem. Soc. Faraday Trans. I*, **1987**, 83, 3603.

- 132.** Caneschi A., Gatteschi D., Grand A., Laugier J., Pardi L., Rey P. "Moderate Ferromagnetic Exchange between Copper(II) and a Nitronyl Nitroxide in a Square Pyramidal Adduct. MO Interpretation of the Mechanism of Exchange in Copper(II) Nitroxide Complexes", *Inorg. Chem.*, **1988**, 27, 1031.
- 133.** Benelli C., Caneschi A., Gatteschi D., Rey P. "Exotic Magnetic Systems", in "*Organic and Inorganic Low Dimensional Crystalline Materials*", Delhaes P., Drillon M., Eds., Plenum Press, New York, 1987, 109.
- 134.** Benelli C., Caneschi A., Gatteschi D., Rey P. "Magnetic Properties of Coupled Lanthanide-Radical Species" in "*Organic and Inorganic Low Dimensional Crystalline Materials*", Delhaes P., Drillon M., Eds., Plenum Press, New York, **1987**, 385.
- 135.** Caneschi A., Gatteschi D., Laugier J., Rey P., Sessoli R., Zanchini C. "Synthetic Pathways to Low Dimensional Compounds Containing Transition Metal Ions and Nitroxide Radicals" in "*Organic and Inorganic Low Dimensional Crystalline Materials*", Delhaes P., Drillon M. Eds., Plenum Press, New York, **1987**, 381.
- 136.** Carlin R.L., Vaziri M., Benelli C., Gatteschi D. "Long Range magnetic Order in a GdCu₂ Cluster with a S = 9/2 Ground State", *Solid State Commun.*, **1988**, 66, 79.
- 137.** Caneschi A., Gatteschi D., Laugier J., Rey P., Sessoli R. "Structure and magnetic Properties of Chains of Diamonds of Four Spins Formed by Metal(II) Hexafluoroacetylacetonates (Metal = Cobalt, Nickel) and the Nitronyl Nitroxide Radical 4,4,5,5-Tetramethyl-2-Ethyl-4,5-dihydro-1H-imidazolyl-1-oxyl 3-Oxide", *Inorg. Chem.*, **1988**, 27, 1553.
- 138.** Caneschi A., Gatteschi D., Rey P., Sessoli R. "Structure and magnetic properties of Ferrimagnetic Chains Formed by Manganese(II) and Nitronyl Nitroxides", *Inorg. Chem.*, **1988**, 27, 1756.
- 139.** Caneschi A., Gatteschi D., Laugier J., Rey P., Sessoli R., Zanchini C. "Preparation, Crystal Structure and Magnetic Properties of an Oligonuclear Complex with 12 Coupled Spins and an S = 12 Ground State", *J. Am. Chem. Soc.*, **1988**, 110, 2795.
- 140.** Vicente R., Ribas J., Zanchini C., Gatteschi D., Legros J.-P., Faulmann C., Cassoux P. "Molecular and Crystal Structure and EPR Studies of tetraphenylarsonium Bis-(1,3-dithia-2-one-4,5-dithiolato)-nickelate, (AsPh₄) Ni(dmid)₂", *Z. Naturforsch.*, **1988**, 43b, 1137.
- 141.** Caneschi A., Gatteschi D., Laugier J., Pardi L., Rey P., Zanchini C. "Structure and Magnetic Properties of Two Bis(nitronyl nitroxide) Adducts of Bis-(hexa-fluoro-acetylacetonato)manganese(II). Molecular Orbital Interpretation of the Coupling in Manganese-Nitroxide Complexes", *Inorg. Chem.*, **1988**, 27, 2027.
- 142.** Caneschi A., Gatteschi D., Sessoli R., Hoffmann S.K., Laugier J., Rey P. "Crystal and Molecular Structure, Magnetic Properties, and EPR Spectra of a Trinuclear Copper(II) Complex with Bridging Nitronyl Nitroxides", *Inorg. Chem.*, **1988**, 27, 2390.
- 143.** Benelli C., Dei A., Gatteschi D., Pardi L. "Synthesis, Redox Behavior, Magnetic Properties and Crystal Structure of a Nickel(II)-Semiquinone Adduct with an Unusually Strong Ferromagnetic Coupling", *Inorg. Chem.*, **1988**, 27, 2831.
- 144.** Benelli C., Dei A., Gatteschi D., Pardi L. "Internal Electron Transfer in a Quinone Adduct of a Nickel(II)-Catecholate Complex", *J. Am. Chem. Soc.*, **1988**, 110, 6897.
- 145.** Benelli C., Caneschi A., Gatteschi D., Pardi L., Rey P. "Magnetic Properties of Linear Chain Compounds formed by Lanthanide(III) Ions and Nitronyl-Nitroxide Radicals", *J. Physique*, **1988**, C8, 861.
- 146.** Caneschi A., Gatteschi D., Renard J.-P., Rey P. "Magnetic Order and Anisotropy in Ferrimagnetic Chains of Mn(II) Ions and Nitronyl-Nitroxide Radicals", *J. Physique*, **1988**, C8, 859.
- 147.** Guillou O., Gatteschi D., Zanchini C., Sessoli R., Kahn O., Verdager M., Pei Y. "Magnetism and EPR Spectra of Mn²⁺-Cu²⁺ Ferrimagnetic Chains", *J. Physique*, **1988**, C8, 857.
- 148.** Benelli C., Caneschi A., Gatteschi D., Pardi L., Rey P., Shum D.P., Carlin R.L. "Magnetic Properties of Lanthanide Complexes with Nitronyl-Nitroxides", *Inorg. Chem.*, **1989**, 28, 272.
- 149.** Benelli C., Caneschi A., Gatteschi D., Pardi L., Rey P. "Structure and Magnetic Properties of Linear Chain Complexes of Rare Earth Ions (Gadolinium, Europium) with Nitronyl Nitroxides", *Inorg. Chem.*, **1989**, 28, 275.

150. Gatteschi D., Guillou O., Zanchini C., Sessoli R., Kahn O., Verdaguer M., Pei Y. "Single Crystal EPR Spectra of Copper-Manganese Bimetallic Ferrimagnetic Chains" *Inorg. Chem.*, **1989**, 28, 287.
151. Caneschi A., Gatteschi D., Renard J.-P., Rey P., Sessoli R. "Magnetic Phase Transitions in Manganese(II) Pentafluorobenzoate Adducts with Nitronyl Nitroxides", *J. Am. Chem. Soc.* **1989**, 111, 785.
152. Benelli C., Caneschi A., Gatteschi D., Pardi L. "Magnetic Materials Containing Rare Earths" in *Basic and Applied Aspects of Rare Earths*, Guerriero P., Guerriero R., Meregalli L., Vigato P.A., Eds., Venice, **1989**, 77.
153. Gatteschi D., Sessoli R., Zanchini C. "EPR Spectra of Low-Dimensional Magnetic materials", in "Magnetic Resonance and Related Phenomena", Proc. XXIV Congress Ampere, Eds. J. Stankowski, N. Pislewski, S.J. Hoffmann and S. Idziak. Elsevier, Amsterdam, **1989**, 325-336.
154. Benelli C., Dei A., Gatteschi D., Pardi L. "Electronic and CD Spectra of Catecholate and Semiquinone Adducts of Zinc(II) and Nickel(II) Tetraazamacrocyclic Complexes", *Inorg. Chem.*, **1989**, 28, 1476.
155. Caneschi A., Gatteschi D., Renard J.-P., Rey P., Sessoli R. "Magnetic Phase Transition and Low Temperature EPR Spectra of a One-Dimensional Ferrimagnet Formed by Manganese(II) and a Nitronyl-Nitroxide", *Inorg. Chem.*, **1989**, 28, 1976.
156. Caneschi A., Gatteschi D., Laugier J., Rey P., Zanchini C. "Synthesis, X-Ray Crystal Structure and Magnetic properties of Two Dinuclear Manganese(II) Compounds Containing Nitronyl Nitroxides, Imino Nitroxides and their Reduced Derivatives", *Inorg. Chem.* **1989**, 28, 1969.
157. Bencini A., Gatteschi D. " $X\alpha$ -SW Calculations of the Electronic Structure and Magnetic Properties of Exchange Coupled Transition Metal Clusters Antiferromagnetism of μ -Oxo Bridged Copper(II) Dimers as Models of CuO_2 Layers in High T_c Superconductors", *Chem. Phys. Letters*, **1989**, 156, 341.
158. Benelli C., Caneschi A., Gatteschi D., Guillou O., Pardi L., Rey P. "Magnetic Properties of a Dysprosium(III) Complex with a Nitronyl Nitroxide", *Inorg. Chim. Acta*, **1989**, 160, 1.
159. Benelli C., Dei A., Gatteschi D., Pardi L. "Redox Potentials and Charge Transfer Spectra of Catecholate and Semiquinone Adducts of a Cobalt- Tetraazamacrocyclic Complex", *Inorg. Chim. Acta*, **1989**, 163, 99.
160. Caneschi A., Gatteschi D., Renard J.-P., Rey P., Sessoli R. "Ferromagnetic Phase transition of Two One-Dimensional Ferrimagnets Formed by Manganese(II) and Nitronyl Nitroxides *cis*-Octahedrally Coordinated", *Inorg. Chem.*, **1989**, 28, 3314.
161. Gatteschi D., Goslar J., Hilczler W., Hoffmann S.K., Zanchini C. "Temperature and Pressure Effects in EPR of Cu_2Cl_6 Dimers in $[(\text{C}_6\text{H}_5)_4\text{A}]_2\text{Cu}_2\text{Cl}_6$, A= Sb, P, Crystals", *Inorg. Chem.*, **1989**, 28, 3395.
162. Caneschi A., Gatteschi D., Renard J.-P., Rey P., Sessoli R. "Magnetic Coupling in Zero- and One-Dimensional Magnetic Systems Formed by Nickel(II) Nitronyl Nitroxides. Magnetic Phase Transition of a Ferrimagnetic Chain", *Inorg. Chem.* **1989**, 28, 2940.
163. Gatteschi D., Zanchini C., Kahn O., Pei Y. "Single Crystal EPR Spectra of the First Alternating Bimetallic Chain Compound $\text{MnCu}(\text{obp})(\text{H}_2\text{O})_3(\text{H}_2\text{oxamido bis}(N,N\text{-propionato}))$ ", *Chem. Phys. Letters*, **1989**, 160, 157.
164. Benelli C., Caneschi A., Gatteschi D., Pardi L., Rey P. "One Dimensional Magnetism of a Linear Chain Compound Containing Yttrium(III) and a Nitronyl Nitroxide Radical", *Inorg. Chem.*, **1989**, 28, 3230.
165. Benelli C., Dei A., Gatteschi D., Güdel H. U., Pardi L. "Giant Intensity Enhancement of the Spin Forbidden $A_{2g} \rightarrow E_g$ Transition in Chromium(III)- Semiquinone Complexes", *Inorg. Chem.* **1989**, 28, 3089.
166. Caneschi A., Ferraro F., Gatteschi D., Melandri M.C., Sessoli R., Rey P. "Synthesis, Structure and Magnetic Properties of a Dinuclear Manganese(II) Complex with a μ -Aquo Bis- μ -Carboxylato Bridge", *Angew. Chem. Int. Edit.*, **1989**, 28, 1365.
167. Rey P., Laugier J., Caneschi A., Gatteschi D. "Synthesis of High-Spin Molecular Species Using Nitroxide Free Radicals and Transition Metal Ions", *Mol. Cryst. Liq. Cryst.*, **1989**, 176, 337.
168. Caneschi A., Gatteschi D., Sessoli R., Rey P. "Magnetic Materials formed by Metal Ions and Nitroxides", *Mol. Cryst. Liq. Cryst.*, **1989**, 176, 329.
169. Benelli C., Dei A., Gatteschi D., Pardi L. "Electronic Structure and Reactivity of Dioxolene Adducts of Nickel(II) and Copper(II) Triazamacrocyclic Complexes", *Inorg. Chem.*, **1990**, 29, 3409.

- 170.** Caneschi A., Gatteschi D., Sessoli, R., Rey P. "Toward Molecular Magnets: the Metal-Radical Approach", *Acc. Chem. Res.*, **1989**, *22*, 392.
- 171.** Benelli C., Caneschi A., Gatteschi D., Guillou O., Pardi L. "Synthesis, Crystal Structure and Magnetic Properties of Tetranuclear Complexes Containing Exchange Coupled Ln_2Cu_2 ($\text{Ln} = \text{Gd}, \text{Dy}$) Species", *Inorg. Chem.*, **1990**, *29*, 1750.
- 172.** Benelli C., Caneschi A., Gatteschi D., Pardi L. "EPR of Materials in which Lanthanide Ions are Coupled to Transition Metal Ions and/or Organic Radicals" in *Electron Spin Resonance of Disordered Systems*, N.D. Yordanov, Ed., *World Scientific*, **1989**, p. 291.
- 173.** Escuer A., Comas T., Ribas J., Vicente R., Solans X., Zanchini C., Gatteschi D. "Synthesis, Structure and EPR Studies of Mixed Hexafluoroacetylacetonate Copper(II) Complexes with Some Diimine Ligands", *Inorg. Chim. Acta*, **1989**, *162*, 97.
- 174.** Antolini L., Fabretti A. C., Gatteschi D., Giusti A., Sessoli R. "Synthesis, Crystal and Molecular Structure and Magnetic Properties of Bis[tri(μ -3,5-diamino-1,2,4-triazole N_1, N_2) tris(thiocyanato-N)nickel(II)] Nickel(II) Hexahydrate", *Inorg. Chem.* **1990**, *29*, 143.
- 175.** Benelli C., Caneschi A., Gatteschi D., Guillou O., Pardi L. "Magnetic Properties of tetranuclear Complexes Containing Exchange Coupled Ln_2Cu_2 ($\text{Ln} = \text{Gd}, \text{Dy}$) Species", *J. Magn. Magn. Mater.*, **1990**, *83*, 522.
- 176.** Benelli C., Caneschi A., Gatteschi D., Pardi L., Rey P. "Linear Chain Gadolinium(III) Nitronyl Nitroxide Complexes with Dominant Next Nearest Neighbor Magnetic Interaction", *Inorg. Chem.*, **1990**, *29*, 4223.
- 177.** Benelli C., Caneschi A., Gatteschi D., Pardi L. "One Dimensional Magnetic Materials with Dominant Next Nearest Neighbor Interactions", *J. Appl. Phys.*, **1990**, *67*, 5613.
- 178.** Borrás-Almenar J.J., Coronado E., Gomez-Garcia C. J., Gatteschi D., Zanchini C., "Magnetism and EPR Spectra of the Two-Sublattice Manganese Chain $\text{Mn}_2(\text{EDTA}) \cdot 9\text{H}_2\text{O}$ ", *J. Appl. Phys.* **1990**, *67*, 6006.
- 179.** Caneschi A., Ferraro F., Gatteschi D., Rey P., Sessoli R. "Crystal Structure and Magnetic Properties of a Copper(II) Chloride-Nitronyl Nitroxide Containing Six Exchange Coupled $S = 1/2$ Spins", *Inorg. Chem.*, **1990**, *29*, 1756.
- 180.** Dei A., Gatteschi D., Pardi L. "Dinuclear Ruthenium Complexes with Bridging 1,4,5,8-Tetraoxonaphthalene: Redox Properties and Mixed Valence Interactions", *Inorg. Chem.*, **1990**, *29*, 1442.
- 181.** Gatteschi D., Sessoli R. "EPR of Low-Dimensional Magnetic Materials", *Magn. Reson. Rev.*, **1990**, *15*, 1.
- 182.** Cabello C. I., Carlin R.L., Caneschi A., Gatteschi D., Rey P., Sessoli R. "Structure and Magnetic Properties of Ferromagnetic Alternating Spin Chains", *Inorg. Chem.* **1990**, *29*, 2582.
- 183.** Benelli C., Caneschi A., Fabretti A. C., Gatteschi D., Pardi L. " Gadolinium(III) Ions and Nitronyl Nitroxide Radicals are Ferromagnetically Coupled in an Essentially Isotropic Way" *Inorg. Chem.*, **1990**, *29*, 4153.
- 184.** Caneschi A., Ferraro F., Gatteschi D., Rey P., Sessoli R. "Ferro- and Antiferromagnetic Coupling between Metal Ions and Pyridine Substituted Nitronyl Nitroxide", *Inorg. Chem.*, **1990**, *29*, 4217.
- 185.** Benelli C., Caneschi A., Gatteschi D., Melandri M.C., Rey P., " Ground $S = 4$ State in a Manganese(II)-Nitronyl Nitroxide Ferromagnetic Ring" *Inorg. Chim. Acta*, **1990**, *172*, 137.
- 186.** Caneschi A., Gatteschi D., Melandri M. C., Rey P., Sessoli R., "Structure and Magnetic Properties of Manganese(II) Carboxylate Chains with Nitronyl Nitroxides and their Reduced Amidino-Oxide Forms. From Random Exchange One-Dimensional to Two Dimensional Magnetic Materials" *Inorg. Chem.*, **1990**, *29*, 4228.
- 187.** Gatteschi D., Pardi L., Sessoli R. "Magnetic Properties of High Nuclearity Spin Clusters", *Mat. Science*, **1991**, *XVII*, 7.
- 188.** Caneschi A., Gatteschi D., Rey P. "The Chemistry and Magnetic Properties of Metal Nitronyl Nitroxide Complexes", *Progr. Inorg. Chem.*, **1991**, *39*, 331-429.
- 189.** Dei A., Gatteschi D., Pardi L., Russo U. "Tetraoxolene Radical Stabilization by the Interaction with Transition Metal Ions", *Inorg. Chem.*, **1991**, *30*, 2589.

- 190.** Luneau D., Rey P., Laugier J., Fries P., Caneschi A., Gatteschi D., Sessoli R. "N-Bonded Copper(II)-Imino Nitroxide Complexes Exhibiting Large Ferromagnetic Interactions". *J. Am. Chem. Soc.*, **1991**, *113*, 1245.
- 191.** Caneschi A., Gatteschi D., Sessoli R., Cabello C. I., Rey P., Barra A. L., Brunel C. "One Dimensional Antiferromagnetism in a Linear Chain Containing Zinc(II) and a Nitronyl Nitroxide", *Inorg. Chem.*, **1991**, *30*, 1882.
- 192.** Angaroni M., Ardizzoia G.A., Beringhelli T., La Monica G., Gatteschi D., Masciocchi N., Moret M. "The Oxidation Reaction of [Cu(Hpz)₂Cl]₂: Synthesis of the trinuclear Copper(II) Hydroxo Complex [Cu₃(OH)(Hpz)₂Cl₂].S (S= H₂O, THF). Formation, Magnetic Properties and X-ray Structure of [Cu₃(OH)(pz)₃(py)₂Cl₂].py", *JCS Dalton*, **1990**, 3305.
- 193.** Caneschi A., Gatteschi D., Sessoli R. "Molecular Magnetic Materials", in "Organometallic Polymers with Special Properties", Laing, R. M. Ed., Plenum Press, New York, **1992**, p. 147.
- 194.** Borrás-Almenar J. J., Burriel R., Coronado E., Gatteschi D., Gomez-Garcia C. J., Zanchini C. "Magnetic Interactions and Single Ion Zero Field Splitting Effects in the Two Sublattice Manganese Chain MnMn(EDTA) 9H₂O: Magnetism and Single Crystal EPR Spectra", *Inorg. Chem.*, **1991**, *30*, 947.
- 195.** Caneschi A., Gatteschi D., Sessoli R., Rey P. "Structure and Magnetic Properties of a Ring of Four Spins Formed by Manganese(II) and a Pyridine Substituted Nitronyl Nitroxide" *Inorg. Chim. Acta*, **1991**, *184*, 67.
- 196.** Caneschi A., Ferraro F., Gatteschi D., Rey P., Sessoli R. "Structure and Magnetic Properties of a Chain Compound Formed by Copper(II) and a Tridentate Nitronyl Nitroxide Radical". *Inorg. Chem.*, **1991**, *30*, 3162.
- 197.** Caneschi A., Gatteschi D., Rey P., Sessoli R. "Structure and Magnetic Ordering of a Ferrimagnetic Helix formed by Manganese(II) and a Nitronyl Nitroxide Radical". *Inorg. Chem.*, **1991**, *30*, 3936.
- 198.** Dei A., Gatteschi D., Pardi L., Barra A.L., Brunel L.C. "Millimeter Band EPR Spectra Reveal Large Zero Field Splittings in Copper(II)-Semiquinonato Complexes", *Chem. Phys. Lett.*, **1990**, *175*, 589.
- 199.** Escuer A., Vicente R., Comas T., Ribas J., Gomez M., Solans X., Gatteschi D., Zanchini C. "Complexes with diimine ligands. Part III. Synthesis, structure and magnetic studies of mixed acetylacetonate cobalt(II) derivatives", *Inorg. Chim. Acta*, **1991**, *181*, 51.
- 200.** Caneschi A., Gatteschi D., Sessoli R. "Structural Magnetic Correlation in Magnetic Phase Transition of Molecular Magnetic Materials" in "Magnetic Molecular Materials", Gatteschi D., Kahn O., Miller J., Palacio F. Eds., NATO-ASI Series, E198, Kluwer Academic Publishers, Dordrecht/Boston/London, **1991**, p. 215.
- 201.** Benelli C., Caneschi A., Gatteschi D., Pardi L. "Magnetic Molecular Materials Containing Rare Earths", in "Magnetic Molecular Materials", Gatteschi D., Kahn O., Miller J., F. Palacio Eds., NATO-ASI Series, E198, Kluwer Academic Publishers, Dordrecht/Boston/London, **1991**, p. 233 .
- 202.** Fabretti A. C., Giusti A., Albano V. G., Castellari C., Gatteschi D., Sessoli R. "Synthesis, Molecular Structure, and Magnetic Properties of [CuLNi(H₂O)₂LCu] [ClO₄]₂4H₂O [H₂L = N,N'-bis(3-amino-2,2-dimethylpropyl) oxamide] and its Trinuclear Homologue", *J. Chem. Soc. Dalton Trans.*, **1991**, 2133.
- 203.** Ferraro F., Gatteschi D., Sessoli R., Corti M. "Nuclear Spin-Lattice Relaxation in the One-Dimensional Ferrimagnet Mn(hfac)₂NiTiPr", *J. Am. Chem. Soc.*, **1991**, *113*, 8410.
- 204.** Fabretti A. C., Malavasi W., Gatteschi D., Sessoli R. "Synthesis, Crystal and Molecular Structure and Magnetic Properties of [Ni₃(L)₄(NCS)₄(OH₂)₂] (L = 2,5 - diamino - 1,3,4 - thiazazole)", *J. Chem. Soc. Dalton Trans.*, **1991**, 2331.
- 205.** Antolini L., Fabretti A. C., Gatteschi D., Giusti A., Sessoli R. "Synthesis, Crystal and Molecular Structure and Magnetic Properties of Bis[μ-3,5-diamino-1,2,4-triazole N¹, N²]bis(μ-3,5-diamino-1,2,4-triazolato (N¹,N²)triacuobalt(II)) cobalt(III) TriChloride Nonahydrate", *Inorg. Chem.*, **1991**, *30*, 4858.
- 206.** Caneschi A., Gatteschi D., Sessoli R., Barra A.-L., Brunel L.-C., Guillot M. "Alternating Current Susceptibility, High Field Magnetization, and Millimeter Band EPR Evidence for a Ground S = 10 State in [Mn₁₂O₁₂(CH₃COO)₁₆(H₂O)₄]2CH₃COOH 4H₂O", *J. Am. Chem. Soc.*, **1991**, *113*, 5873.

- 207.** Caneschi A., Gatteschi D., Rey P., Sessoli R. "Ordered Bimetallic-Radical Species Forming Low-Dimensional Magnetic Materials", *Chem. Mat.*, **1992**, *4*, 204.
- 208.** Ghedini M., Morrone S., Gatteschi D., Zanchini C. "Transition Metal Complexed to Ordered Mesophases.¹ Synthesis, Mesomorphic Behavior, and EPR Investigations on a Homologous Series of N-(4-Alkoxyalicylidene)-4'-alkylanilines Complexed to Copper(II)", *Chem. Mat.*, **1991**, *3*, 752.
- 209.** Bruni S., Cariati F., Dei A., Gatteschi D. "1,4,5,8-Tetraoxonaphthalene redox species in dinuclear ruthenium complexes: resonance Raman and electronic spectra", *Inorg. Chim. Acta*, **1991**, *186*, 157.
- 210.** Benelli C., Caneschi A., Gatteschi D., Pardi L. "Gadolinium(III) Complexes with Pyridine-Substituted Nitronyl Nitroxide Radicals", *Inorg. Chem.*, **1992**, *31*, 741-746.
- 211.** Gatteschi D., Pardi L., Barra A.-L., Müller A., Döring J. "Layered magnetic structure of a metal cluster ion", *Nature*, **1991**, *354*, 463.
- 212.** Dei A., Gatteschi D., Pardi L. "Sextet ground state in a dinuclear nickel(II) complex containing a tetraoxolene radical as bridging ligand", *Inorg. Chim. Acta*, **1991**, *189*, 125-128.
- 213.** Caneschi A., Dei A., Gatteschi D. "Topological Degeneracy of Magnetic Orbitals in Organic Biradicals Mediated by Metal Ions: Triplet Ground State in a Titanium(IV) Complex of Schiff Base Diquinone Radical Ligands". *JCS Chem. Comm.*, **1992**, 630.
- 214.** Dei A., Gatteschi D., Pardi L. "Synthesis, Characterization, and Reactivity of Catecholato Adducts of Iron(III) Triaza- and Tetraazamacrocyclic Complexes: Chemical Evidence of the Role of the Metal Ion in the Oxidative Cleavage", *Inorg. Chem.*, **1993**, *32*, 1389-1395.
- 215.** Gatteschi D., and Sessoli R. "Molecular based magnetic materials", *J. Magn. Magn. Mat.*, **1992**, *104-107*, 2092.
- 216.** Dei A., Gatteschi D. "Magnetic and spectral properties of paramagnetic metal-ion polyoxolene radical complexes" *Inorg. Chim. Acta*, **1992**, *198-200*, 813-822.
- 217.** Benelli C. and Gatteschi D. "Magnetism in Florence", *Coord. Chem. Rev.*, **1992**, *120*, 137-161.
- 218.** Fabretti A. C., Malavasi W., Gatteschi D., Sessoli R. "Synthesis, crystal and molecular structure and magnetic properties of bis [(μ-hydroxo)bis(μ-2,5-diamino-1,3,4-thiadiazole-N₁,N₂)-chloroaqua(2,5-diamino-1,3,4-thiadiazole-N₁,N₁)-cobalt(II)-O,N₁,N₁]-cobalt(II) dichloride dihydrate" *Inorg. Chim. Acta*, **1992**, *195*, 157-161.
- 219.** Gatteschi D., Pardi L. "Magnetic Properties of High Nuclearity Spin Clusters. A Fast and Efficient Procedure for the Calculation of the Energy Levels", *Gazz. Chim. It.* **1993**, *123*, 231.
- 220.** Luneau D., Risoan G., Rey P., Grand A., Caneschi A., Gatteschi D., Laugier J. "Transition Metal Derivatives of a Chelating Nitronyl Nitroxide Ligand. Nickel(II) and Manganese(II) Complexes", *Inorg. Chem.*, **1993**, *32*, 5616-5622.
- 221.** Benelli C., Caneschi A., Gatteschi D., Sessoli R., "Magnetic Ordering in a Molecular Material Containing Dysprosium(III) and a Nitronyl Nitroxide", *Adv. Mater.*, **1992**, *4*, 504-505.
- 222.** Barra A.-L., Gatteschi D., Pardi L., Müller A., Döring J. "Magnetic Properties of High-Nuclearity Spin Clusters. Fourteen- and Fifteen-Oxovanadium(IV) Clusters", *J Am. Chem. Soc.*, **1992**, *114*, 8509.
- 223.** Barra A.-L., Gatteschi D., Tsukerblat B. S., Döring J., Müller A., Brunel L.-C. "Magnetic Properties of a Dodecanuclear Polyoxovanadate with Exchange and Electron Delocalization Effects", *Inorg. Chem.*, **1992**, *31*, 5132-5134.
- 224.** Gatteschi D. and Tsukerblat B. S. "Delocalization and exchange effects in high-nuclearity vanadium clusters", *Mol. Phys.*, **1993**, *79*, 1, 121-143.
- 225.** Benelli C., Caneschi A., Gatteschi D., Pardi L. "Magnetic interactions involving rare earth ions", *Mat. Chem. and Phys.*, **1992**, *31*, 17-22.
- 226.** Caneschi A., Gatteschi D., Pardi L., Sessoli R. "Clusters, Chains, and Layered Molecules: the Chemist's Way to Magnetic Materials", in "Perspectives in Coordination Chemistry", Williams A. F., Floriani C., Merbach A. E. Eds., VCH, Basel, **1992**, p. 109.
- 227.** Caneschi A., Gatteschi D., Sessoli R., Rey P., Cabello C. I. "Crystal Structure and Magnetic Properties of Cu(hfa)₂NiTnPrⁿ, a One-dimensional Ferromagnet", *J. Mater. Chem.*, **1992**, *2(12)*, 1283-1287.

- 228.** Caneschi A., Chiesi P., David L., Ferraro F., Gatteschi D., Sessoli R. "Crystal Structure and Magnetic Properties of Two Nitronyl Nitroxide Biradicals and of Their Copper(II) Complexes", *Inorg. Chem.*, **1993**, *32*, 1445-1453.
- 229.** Gatteschi D., Pardi L., Barra A.-L., Müller A. "Polyoxovanadates: the Missing Link between Simple Paramagnets and Bulk Magnets?", in *Polyoxometallates: from Platonic Solids to Antiretorviral Activity*, Müller A., Pope M. T., Eds., Kluwer, Dordrecht, **1994**, 219-231.
- 230.** Gatteschi D. and Pardi L. "Spin Levels of High Nuclearity Spin Clusters", in "Research Frontiers in Magnetochemistry", O' Connor C. J. Ed., World Scientific, Singapore, **1993**, 67-86.
- 231.** Benelli C., Caneschi A., Gatteschi D., Sessoli R. "Magnetic properties and phase transitions in molecular based materials containing rare earth ions and organic radicals (invited)", *J. Appl. Phys.*, **1993**, *73(10)*, 5333-5337.
- 232.** Gatteschi D. and Pardi L. "Magnetism of High Nuclearity Spin Clusters", *Mol. Cryst. Liq. Cryst.*, **1993**, *233*, 217-230.
- 233.** Delfs C., Gatteschi D., Pardi L., Sessoli R., Wieghardt K., Hanke D. "Magnetic Properties of an Octanuclear Iron(III) Cation", *Inorg. Chem.*, **1993**, *32*, 3099-3103.
- 234.** Sessoli R., Tsai H.-L., Schake A. R., Wang S., Vincent J. B., Folting K., Gatteschi D., Christou G., Hendrickson D. N. "High-Spin Molecules: $[\text{Mn}_{12}\text{O}_{12}(\text{O}_2\text{CR})_{16}(\text{H}_2\text{O})_4]$ ", *J. Am. Chem. Soc.*, **1993**, *115*, 1804-1816.
- 235.** Caneschi A., Gatteschi D., Sessoli R. "Magnetic Properties of a Layered Molecular Material Comprising Manganese Hexafluoroacetylacetonate and Nitronyl Nitroxide Radicals", *Inorg. Chem.*, **1993**, *32*, 4612-4616.
- 236.** Gatteschi D., Tsukerblat B., Barra A.-L., Brunel L.-C., Müller A., Döring J. "Magnetic Properties of Isostructural Dodecanuclear Polyoxovanadates with Six and Eight Vanadium(IV) Ions", *Inorg. Chem.*, **1993**, *32*, 2114-2117.
- 237.** Borrás Almenar J. J., Coronado E., Gatteschi D., Gomez-Garcia C. J., Zanchini C. "Magnetic Exchange Interactions in the Alternating Copper Chain $\text{Cu}_2(\text{CDTA})_4\cdot 4\text{H}_2\text{O}$ Derived from Susceptibility and EPR Measurements", *J. Phys. Chem.*, **1993**, *97*, 4206-4210.
- 238.** Borrás Almenar J. J., Coronado E., Gatteschi D., Zanchini C. "Single-crystal EPR study of the bimetallic ferrimagnetic chain $\text{MnCu}(\text{EDTA})_6\cdot 6\text{H}_2\text{O}$ ", *Inorg. Chim. Acta*, **1993**, *207*, 105-109.
- 239.** Ghedini M., Morrone S., Bartolino R., Formoso V., Francescangeli O., Yang B., Gatteschi D., Zanchini C. "Transition Metals Complexed to Ordered Mesophases. ¹ Synthesis, Mesomorphism, and X-ray and EPR Characterization of a Homologous Series of *N*-(4-Dodecyloxysalicylidene)-4'-alkylanilines Complexed to Oxovanadium(IV)", *Chem. Mater.*, **1993**, *5*, 876-882.
- 240.** Delfs C. D., Gatteschi D., Pardi L. "High Nuclearity Spin Clusters: a New Dimension in Magnetism?", *Comments Inorg. Chem.*, **1993**, *15*, 27-48.
- 241.** Casanova J., Alzuet G., Borrás J., David L., Gatteschi D. "Metal complexes of sulfanilamide derivatives. Spectroscopic characterization of the dichloro disulfathiazole methanol copper(II) complex", *Inorg. Chim. Acta*, **1993**, *211*, 183-186.
- 242.** Cornia A., Fabretti A. C., Giusti A., Gatteschi D., Ferraro F. "Molecular structure and magnetic properties of copper(II), manganese(II), and iron(II) croconate tri-hydrate", *Inorg. Chim. Acta*, **1993**, *212*, 87-94.
- 243.** Cornia A., Fabretti A. C., Ferraro F., Gatteschi D., Giusti A. "Magnetic Properties and Crystal Structure of a Linear-chain Copper(II) Compound with Bridging Chloride and Oxamidate Ligands", *J. Chem. Soc. Dalton Trans.*, **1993**, 3363-3366.
- 244.** Christmas C. A., Tsai H.-L., Pardi L., Kesselman J. M., Gantzel P. K., Chadha R. K., Gatteschi D., Harvey D. F., Hendrickson D. N. "Hexanuclear Ferric Complexes Possessing Different Degrees of Spin Frustration", *J. Am. Chem. Soc.*, **1993**, *115*, 12483-12490.
- 245.** Sessoli R., Gatteschi D., Caneschi A., Novak M. A. "Magnetic bistability in a metal-ion cluster", *Nature*, **1993**, *365*, 141-143.
- 246.** Benelli C., Caneschi A., Gatteschi D., Sessoli R. "Phase Transitions in Magnetic Molecular Materials Containing Rare Earths", in "Syntheses and Methodologies in Inorganic Chemistry", Daolio S., Fabrizio M., Guerriero P., Tondello E., P. A. Vigato Eds., **1993**, vol. 3, p. 81-86.

247. Benelli C., Caneschi A., Gatteschi D., Sessoli R. "Magnetic Interactions and Magnetic Ordering in Rare Earth Metal Nitronyl Nitroxide Chains", *Inorg. Chem.*, **1993**, 32, 4797-4801.
248. Caneschi A., Gatteschi D., Le Lirzin A. "Crystal Structure and Magnetic Properties of a New Ferrimagnetic Chain containing Manganese(II) and a Nitronyl-Nitroxide Radical. Magnetic Ordering in Mn(hfac)₂NITR Compounds.", *J. Mater. Chem.*, **1994**, 4(2), 319-326.
249. Caneschi A., David L., Ferraro F., Gatteschi D., Fabretti A. C. "A seven-spin cluster formed by an alkyl nitronyl nitroxide biradical and copper(II) : crystal structure and magnetic properties", *Inorg. Chim. Acta*, **1994**, 217, 7-13.
250. Bruni S., Caneschi A., Cariati F., Delfs C., Dei A., Gatteschi D. "Ferromagnetic Coupling between Semiquinone Type Tridentate Radical Ligands Mediated by Metal Ions" *J. Am. Chem. Soc.*, **1994**, 116, 1388-1394.
251. Müller A., Rohlfing R., Barra A.-L., Gatteschi D. "Magnetic Properties of Polyoxovanadates : Magnetic Confirmation of the Valence State of the Vanadium Centers in Na₆[H₆V₁₂O₃₀F₂].22H₂O", *Adv. Mater.* **1993**, 5, 915-917.
252. Taft K. L., Delfs C. D., Papaefthymiou G. C., Foner S., Gatteschi D., Lippard S. J. "[Fe(OMe)₂(O₂CCH₂Cl)]₁₀, a Molecular Ferric Wheel", *J. Am. Chem. Soc.*, **1994**, 116, 823-832.
253. Angeloni L., Caneschi A., David L., Fabretti A., Ferraro F., Gatteschi D., Le Lirzin A., Sessoli R. "Crystal Structures, Magnetic and Non-Linear Optical Properties of Methoxyphenyl Nitronyl-Nitroxide Radicals", *J. Mat. Chem.*, **1994**, 4(7), 1047-1053.
254. Gatteschi D., "Molecular Magnetism : A Basis for New Materials", *Adv. Mater.*, **1994**, 6, 635-645.
255. Powell A. K., Heath S. L., Gatteschi D., Pardi L., Sessoli R., Spina G., Del Giallo F., Pieralli F. "Synthesis, Structures, and Magnetic Properties of Fe₂, Fe₁₇, and Fe₁₉ Oxo-Bridged Iron Clusters: The Stabilization of High Ground State Spins by Cluster Aggregates", *J. Am. Chem. Soc.*, **1995**, 117, 2491-2502.
256. Gatteschi D., Caneschi A., Pardi L., Sessoli R. "Large Clusters of Metal Ions, the Transition from Molecular to Bulk Magnets", *Science*, **1994**, 265, 1054-1058.
257. Gatteschi D., Goslar J., Hilczler W., Hoffmann S. K., Zanchini C. "EPR of Cu₂Cl₆ Dimers in [(C₆H₅)₃(n-propyl)P]₂Cu₂Cl₆ Single Crystal", *Mol. Phys. Rep.*, **1994**, 5, 174-177.
258. Gatteschi D., Ferraro F., Sessoli R. "Magnetic resonance of low dimensional magnetic solids", *J. Chim. Phys.*, **1994**, 91, 761-775.
259. Ferraro F., Gatteschi D. "Nuclear magnetic resonance of one-dimensional antiferromagnets comprising nitronyl nitroxide radical", *Mol. Phys.*, **1994**, 5, 933-947.
260. Gatteschi D. "Chemical Approaches to Nanoscale Magnetic Materials", in "Applications of Organometallic Chemistry in the Preparation and Processing of Advanced Materials", Harrod J. F., Laine R. M., Eds., NATO ASI Serie E 297, Kluwer, Dordrecht, **1995**, 317-331.
261. Gatteschi D., Caneschi A., Pardi L., Sessoli R. "Towards Nanoscale Molecular Magnetic Materials", in "From Simplicity to Complexity in Chemistry- and Beyond", Müller A., Dress A., Vögtle F. Eds., Vieweg & Sohn, Braunschweig, **1996**, 171-192.
262. Caneschi A., Gatteschi D., Rentschler E., Sessoli R. "Crystal structure and magnetic properties of a benzaldehyde nitronyl nitroxide radical", *Gazz. Chim. It.*, **1995**, 125, 283-286.
- III
263. Cornia A., Gatteschi D., Hegetschweiler K. "Magnetic Exchange Coupling in the Fe₆(μ₆-O) Core: A Hint to the Magnetic Properties of Higher-Nuclearity Spin Clusters", *Inorg. Chem.*, **1994**, 33, 1559-1561.
264. Caneschi A., Ferraro F., Gatteschi D., Le Lirzin A., Rentschler E. "Ferromagnetic intermolecular coupling in the nitronyl nitroxide radical 2-(4-thiomethylphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide, NIT(Sme)Ph", *Inorg. Chim. Acta*, **1995**, 235, 159-164.
265. Caneschi A., Ferraro F., Gatteschi D., Le Lirzin A., Novak M. A., Rentschler E., Sessoli R. "Ferromagnetic Order in the Sulfur-Containing Nitronyl Nitroxide Radical, 2-(4-Thiomethyl)-phenyl-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide, NIT(Sme)Ph", *Adv. Mater.*, **1995**, 7, 476-478.
266. Ferraro F., Gatteschi D., Rettori A., Corti M. "NMR investigation of Mn(hfac)₂NITiPr: evidence of nonlinear excitations in a one-dimensional ferrimagnet", *Mol. Phys.*, **1995**, 85, 1073-1088.

- 267.** Caneschi A., Cornia A., Fabretti A. C., Gatteschi D., Malavasi W. "Polyiron(III)-Alkoxo Clusters: A Novel Trinuclear Complex and Its Relevance to the Extended Lattices of Iron Oxides and Hydroxides", *Inorg. Chem.*, **1995**, *34*, 4660-4668.
- 268.** Benelli C., Gatteschi D., Sessoli R., Rettori A., Pini M. G., Bartolomé F., Bartolomé J. "Gd(hfac)₃NITet molecular magnetic chain", *J. Magn. Magn. Mat.*, **1995**, *140-144*, 1649-1650.
- 269.** Gatteschi D., Sessoli R., Plass W., Müller A., Krickemeyer E., Meyer J., Sölter D., Adler P. "Giant Clusters with Unusual Electronic and Magnetic Structures Due to Open Shell Metal Centers Embedded Far Apart from Each Other: Spin Frustration and Antisymmetric Exchange", *Inorg. Chem.*, **1996**, *35*, 1926-1934.
- 270.** Porta F., Alessi M., Cairati P., Bianchi C. L., Sessoli R., Gatteschi D. "Preparation and properties of uniform colloidal particles of mixed copper(II)-lanthanide(III) compounds", *Coll. Surf.*, **1996**, *A108*, 305-313.
- 271.** Koolhaas G. J. A. A., Driessen W. L., Reedijk J., van der Plas J. L., de Graaf R. A. G., Gatteschi D., Kooijman H., Spek A. L. "Synthesis, Characterization, and Single-Crystal EPR Studies of Three Dinuclear Copper(II) Complexes and One Mixed-Valence Tetranuclear Copper(I)-Copper(II) Cluster with an Asymmetric Imidazole-Containing Tripodal Ligand with Copper(II)-Copper(II) Distances between 3.35 and 3.36 Å", *Inorg. Chem.*, **1996**, *35*, 1509-1517.
- 272.** Gatteschi D., Tsukerblat B. S., Fainzilberg V. E. "EPR Spectra of the Double Triangular Polyoxovanadates with Exchange and Electron Transfer Effects: Symmetry Breaking and Effective Motional Averaging", *Appl. Magn. Reson.*, **1996**, *10*, 217-249.
- 273.** Cornia A., Fabretti A. C., Gatteschi D., Pály G., Rentschler E., Shchegolikhina O. I., Zhdanov A. A. "Molecule-Based Magnets: Ferro- and Antiferromagnetic Interactions in Nickel(II)-Cyclohexasiloxanolate Sandwich Complexes", *Inorg. Chem.*, **1995**, *34*, 5383-5387.
- 274.** Barra A.-L., Caneschi A., Gatteschi D., Sessoli R. "High Frequency EPR Spectra for the Analysis of Magnetic Anisotropy in Large Magnetic Clusters", *J. Am. Chem. Soc.*, **1995**, *117*, 8855-8856.
- 275.** van Koningsbruggen P. J., Gatteschi D., de Graaf R. A. G., Haasnoot J. G., Reedijk J., Zanchini C. "Isotropic and Anisotropic Magnetic Exchange Interactions through μ -N¹,N² 1,2,4-Triazole and μ --Sulfato Bridges: X-ray Crystal Structure, Magnetic Properties, and Single-Crystal EPR Study of (μ -4-Amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole-N,N¹,N²,N³)(μ -sulfato-O,O')[(sulfato-O)aquacopper(II)]triacquacopper(II) Hydrate", *Inorg. Chem.*, **1995**, *34*, 5175-5182.
- 276.** Gatteschi D., Tsukerblat B. S. "Symmetry Breaking and Effective Motional Averaging in Double Triangular Clusters with Exchange and Electron Transfer Effects", *Chem. Phys.*, **1996**, *202*, 25-37.
- 277.** Gatteschi D., Caneschi A., Sessoli R. "New Magnetic Properties Emerging From Zero- and One-Dimensional Molecular Materials", in "Molecular Magnetism: From Molecular Assemblies to the Devices", Coronado E., Delhaès P., Gatteschi D., Miller J. S., Eds., Kluwer, **1996**, NATO ASI Series E, Vol. 321, 289-307.
- 278.** Gatteschi D. "Magnetic Resonances and Spin Dynamics in Molecular Magnets", in "Molecular Magnetism: From Molecular Assemblies to the Devices", Coronado E., Delhaès P., Gatteschi D., Miller J. S., Eds., Kluwer, **1996**, NATO ASI Series E, Vol. 321, 141-172.
- 279.** Caneschi A., Cornia A., Fabretti A. C., Gatteschi D. "Structure and Magnetic Properties of a Decanuclear Oxoiron(III) Cluster: A Further Step to Understanding Iron Aggregation Processes", *Angew. Chem. Int. Edit.*, **1995**, *34*, 2716-2718.
- 280.** El Fallah M. S., Rentschler E., Caneschi A., Gatteschi D. "Synthesis, crystal structure and magnetic properties of the tetranuclear complex [Ni₄(OCH₃)₄(dbm)₄(CH₃OH)₄]₂(C₂H₅)₂", *Inorg. Chim. Acta*, **1996**, *247*, 231-235.
- 281.** Caneschi A., Gatteschi D., Sessoli R. "Magnetism of Materials Formed by Metal Ions and Radicals", *Mol. Cryst. Liq. Cryst.*, **1996**, *279*, 177-194.
- 282.** Gatteschi D., Sessoli R. "Large Metal Ion Clusters - Small Magnetic Particles", in "Fine Particles Science and Technology. From Micro to Nanoparticles", Pelizzetti E., Ed., Kluwer, Dordrecht, **1996**, 517-531.
- 283.** Schiødt N. C., Fabrizi de Biani F., Caneschi A., Gatteschi D. "Structure and magnetism of nickel(II) and manganese(II) complexes of a nitronyl nitroxide carboxylic acid", *Inorg. Chim. Acta*, **1996**, *248*, 139-146.
- 284.** Barra A.-L., Debrunner P., Gatteschi D., Schulz Ch. E., Sessoli R. "Superparamagnetic-like behavior in an octanuclear iron cluster", *Europhys. Letters*, **1996**, *35(2)*, 133-138.

- 285.** Gatteschi D., Goslar J., Hilczler W., Hoffmann S. K., Zanchini C. "Anisotropic Exchange Effects in Temperature and Pressure Dependences of EPR Zero-Field Splitting in $[(C_6H_5)_3(n\text{-propyl})P]_2Cu_2Cl_6$ ", *Inorg. Chem.*, **1996**, *35*, 1148-1153.
- 286.** Cargill Thompson A. M. W., Gatteschi D., McCleverty J. A., Navas J. A., Rentschler E., Ward M. D. "Effects of Systematic Variation in Bridging Ligand Structure on the Electrochemical and Magnetic Properties of a Series of Dinuclear Molybdenum Complexes", *Inorg. Chem.*, **1996**, *35*, 2701-2703.
- 287.** El Fallah M. S., Rentschler E., Caneschi A., Sessoli R., Gatteschi D. "Structure and Magnetic Properties of a Heptanuclear Nickel(II) Compound: $[Ni_7(\mu\text{-NO}_2)_8(\mu_2\text{-OH})_2(\mu_3\text{-OH})_2(OHpn)_2(Opn)_2]_2 \cdot 7H_2O$ ", *Inorg. Chem.*, **1996**, *35*, 3723-3724.
- 288.** Gatteschi D., Yamaguchi K. "Opportunities for New Physics in Molecular Magnetism", in "Molecular Magnetism : From Molecular Assemblies to the Devices", Coronado E., Delhaès P., Gatteschi D., Miller J. S., Eds., Kluwer, Dordrecht, **1996**, 561-570.
- 289.** Gatteschi D., Sessoli R. "Origin of Superparamagnetic like Behavior in Large Molecular Clusters", in "Molecularly Based Magnetic Materials", Turnbull, M., Ed., in press
- 290.** Gatteschi D. "Molecular Magnets", in "*Magnetic properties of matter*", Lanotte I., Lucari F., Pareti L., Eds, World Scientific, Singapore, **1996**, 177-190.
- 291.** Rentschler E., Gatteschi D., Cornia A., Fabretti A. C., Barra A.-L., Shchegolikina O. I., Zhdanov A. A. "Molecule-Based Magnets : Ferro- and Antiferromagnetic Interactions in Copper(II)-Polyorganosiloxaanolate Clusters", *Inorg. Chem.*, **1996**, *35*, 4427-4431.
- 292.** Gatteschi D., Caneschi A., Sessoli R., Cornia A. "Magnetism of Large Iron-Oxo Clusters", *Chem. Soc. Rev.*, **1996**, 101-109.
- 293.** Gatteschi D., Sessoli R. "Assembling Magnetic Blocks or How Long does it take to Reach Infinity in "Molecular Magnetism : A Supramolecular Function", Kahn, O., Ed., NATO ASI C 484, Kluwer, Dordrecht, **1996**, 411.
- 294.** Chiari B., Cinti A., Ferraro F., Gatteschi D., Piovesana O., Zanazzi P.F. "Ferromagnetic Exchange Interaction in the Bimetallic Quasi 2-D Compound $Cu(op)_2MnCl_4$ ($op = 1,4\text{-diazacycloheptane}$)", *Inorg. Chem.*, **1996**, *35*, 7413-7418.
- 295.** Cornia A., Gatteschi D., Hegetschweiler K. Hausherr-Primo L., Gramlich V. "Metal binding of polyalcohols IV*. Structure and magnetism of the hexanuclear, $\mu_6\text{-oxo}$ -centered $[OFe_6(H_3\text{thme})_3(OCH_3)_3Cl_6]^{2-}$ (thme = tris-hydroxymethyl-ethane)", *Inorg. Chem.*, **1996**, *35*, 4414-4419.
- 296.** Caneschi A., Cornia A., Fabretti A. C., Foner S., Gatteschi D., Grandi R., Schenetti L. "Synthesis, Crystal Structure, Magnetism, and Magnetic Anisotropy of Cyclic Clusters Comprising Six Iron(III) Ions and Entrapping Alkaline Ions", *Chem. Eur. J.*, **1996**, *2*, 1379-1387.
- 297.** Fleischhauer P., Gehring S., Saal C., Haase W., Tomkowicz Z., Zanchini C., Gatteschi D., Davidov D., Barra A.-L. "EPR investigations of trinuclear $Cu(II)$ complexes with quartet ground states", *J. Magn. Magn. Mat.*, **1996**, *159*, 166-174.
- 298.** Bartolomé F., Bartolomé J., Benelli C., Caneschi A., Gatteschi D., Paulsen C., Pini M. G., Rettori A., Sessoli R., Volokitin Y. "Effect of Chiral Domain Walls on the Specific Heat of $Gd(hfac)3NITR$ ($R = \text{Ethyl, Isopropyl, Methyl, Phenyl}$) Molecular Magnetic Chains", *Phys. Rev. Lett.*, **1996**, *77*, 382-385.
- 299.** El Fallah M. S., Rentschler E., Caneschi A., Sessoli R., Gatteschi D., "A Three-Dimensional Molecular Ferrimagnet Based on Ferricyanide and $[Ni(tren)]^{2+}$ Building Blocks", *Angew. Chem. Int. Edit.*, **1996**, *35*, 1947-1949.
- 300.** Thomas L., Lioni F., Ballou R., Gatteschi D., Sessoli R., Barbara B. "Macroscopic quantum of magnetization in a single crystal of nanomagnets", *Nature*, **1996**, *383*, 145-147.
- 301.** Zucchi C., Shchegolikina O. I., Borsari M., Cornia A., Gavioli G., Fabretti A. C., Rentschler E., Gatteschi D., Ugo R., Psaro R., Pozdniakova Yu. A., Lindeman S. V., Zhdanov A. A., Pály G. "Cyclooligosiloxanolate cluster complexes of transition metals and lanthanides", *J. Mol. Catalysis A : Chemical*, **1996**, *107*, 313-321.
- 302.** Ennas G., Musinu A., Piccaluga G., Zedda D., Gatteschi D., Sangregorio C., Stanger J.-L., Concas G., Spano G. "Characterization of Iron-Oxide Nanoparticles in a $Fe_2O_3\text{-SiO}_2$ Composite Prepared by a Sol-Gel Method", *Chem. Mater*, **1998**, *10*, 495-502.
- 303.** Lascialfari A., Gatteschi D., Borsa F., Cornia A. "Spin dynamics in mesoscopic size magnetic systems : A 1H NMR study in rings of iron(III) ions", *Phys. Rev. B*, **1997**, *55*, 21, 14341-14349.

Gelösch: Chiari, B. ; Cinti, A. ; Ferraro, F. ; Gatteschi, D., Piovesana, O. ; Zanazzi, P. F. "Ferromagnetic Exchange Interaction in the Bimetallic Quasi 2-D Compound $Cu(op)_2MnCl_4$ ($op = 1,4\text{-diazacycloheptane}$)",

- 304.** Lascialfari A., Gatteschi D., Borsa F., Shastri A., Jang Z., Carretta P. "Proton NMR and μ SR in $Mn_{12}O_{12}$ -acetate : a Mesoscopic Magnetic Molecular Cluster", *Phys. Rev. B*, **1998**, 57, 514-520.
- 305.** Sangregorio C., Ohm T., Paulsen C., Sessoli R., Gatteschi D. "Quantum tunneling of the magnetization in an iron cluster nanomagnet", *Phys. Rev. Lett.*, **1997**, 78, 4645-4648.
- 306.** Barra A.-L., Gatteschi D., Sessoli R. "High Frequency EPR Spectra of a Molecular Nanomagnet : Understanding Quantum Tunneling of the Magnetization", *Phys. Rev. B*, **1997**, 56, 8192-8198.
- 307.** Cheesman M. R., Oganessian V. S., Sessoli R., Gatteschi D., Thomson A. J. "Magnetically induced optical bi-stability of the molecular nanomagnet $Mn_{12}O_{12}(OOCMe)_{16}(H_2O)_4$ in an organic glass", *J. Chem. Soc., Chem. Commun.*, **1997**, 1677-1678.
- 308.** Caneschi A., Gatteschi D., Sessoli R. "Manganese clusters: a common ground for photosynthesis, quantum tunneling of the magnetization and colossal magnetoresistance", *J. Chem. Soc., Dalton Trans.*, **1997**, 21, 3963-3970.
- 309.** Singh B., Long J.R., Fabrizi de Biani F., Gatteschi D., Stavropoulos P. "Synthesis, reactivity, and catalytic behavior of Iron/Zinc-containing species involved in oxidation of hydrocarbons under Gif-type conditions", *J. Am. Chem. Soc.*, **1997**, 119, 7030-7047.
- 310.** Barra A.-L., Caneschi A., Gatteschi D., Sessoli R. "Very High Field EPR Study of a Molecular Nanomagnet", *J. Magn. Magn. Mat.*, **1998**, 177, 709-710.
- 311.** Ung V. \hat{A} ., Cargill Thomson A. M. W., Bardwell D. A., Gatteschi D., Jeffery J. C., McCleverty J. A., Totti F., Ward M. D. "Roles of Bridging Ligand Topology and Conformation in Controlling Exchange Interactions between Paramagnetic Molybdenum Fragments in Dinuclear and Trinuclear Complexes", *Inorg. Chem.*, **1997**, 36, 3447-3454.
- 312.** Müller A., Sessoli R., Krickemeyer E., Bögge H., Meyer J., Gatteschi D., Pardi L., Westphal J., Hovemeier K., Rohlfing R., Döring J., Hellweg F., Beugholt C., Schmidtman M. "Polyoxovanadates: High-Nuclearity spin clusters with interesting host-guest systems and different electron populations. Synthesis, spin organization, magnetochemistry, and spectroscopic studies", *Inorg. Chem.*, **1997**, 36, 5239-5250.
- 313.** Müller A., Plass W., Krickemeyer E., Sessoli R., Gatteschi D., Meyer J., Bögge H., Kröckel M., Trautwein A.X. "Stepwise Substituting Magnetic Centres in a Giant Cluster Host Systems", *Inorg. Chim. Acta*, **1998**, 271, 9-12.
- 314.** Lascialfari A., Gatteschi D., Cornia A., Balucani U., Pini M. G., Rettori A. "Nuclear Spin Relaxation in Magnetic Rings", *Phys. Rev. B-Condensed Matter*, **1998**, 57, 1115-1123.
- 315.** Caneschi A., Gatteschi D., Sessoli R., Schweizer J. "Magnetization Density in a High Spin (S=12) Magnetic Cluster", *Physica B*, **1997**, 241, 600-602.
- 316.** Müller A., Peters F., Pope M.T., Gatteschi D. "Polyoxometalates : Very Large Clusters - Nanoscale Magnets", *Chem. Rev.*, **1998**, 98, 239-271.
- 317.** Lioni F., Thomas L., Ballou R., Barbara B., Sulpice A., Sessoli R., Gatteschi D. "Thermally assisted macroscopic quantum resonance on a single-crystal of Mn_{12} -acetate", *J. Appl. Phys.*, **1997**, 81, 4608-4610.
- 318.** Gomes A. M., Novak M. A., Sessoli R., Caneschi A., Gatteschi D. "Specific Heat and Magnetic Relaxation of the Quantum Nanomagnet $Mn_{12}Ac$ ", *Phys. Rev. B-Condensed Matter*, **1998**, 57, 5021-5024.
- 319.** Gatteschi D., Lascialfari A., Sessoli R., Borsa F. " 1H NMR Study of the Spin Dynamics in the Superparamagnetic Octanuclear Iron Cluster Fe_8 ", *J. Magn. Magn. Mat.*, **1998**, 185, 238-240.
- 320.** Barra A.-L., Brunel L.-C., Gatteschi D., Pardi L., Sessoli R. "High Frequency EPR Spectroscopy of Large Metal Ion Clusters. From Zero Field Splitting to Quantum Tunneling of the Magnetization", *Acc. Chem. Res.*, **1998**, 31, 460-466.
- 321.** Le Gall F., Fabrizi de Biani F., Caneschi A., Cinelli P., Cornia A., Fabretti A. C., Gatteschi D. "Synthesis, crystal structures and magnetic characterization of four β -diketonate-alkoxide iron(III) dimers. Dependence of the magnetic properties on geometrical and electronic parameters", *Inorg. Chim. Acta*, **1997**, 262, 123-132.
- 322.** Abbati G. L., Cornia A., Fabretti A. C., Malavasi W., Schenetti L., Caneschi A., Gatteschi D. "Modulated Magnetic Coupling in Alkoxoiron(III) Rings by Host-Guest Interactions with Alkali Metal Cations", *Inorg. Chem.*, **1997**, 36, 6443-6446.

323. Gatteschi D., Caneschi A., Sessoli R. "Magnetic Properties of Molecular Clusters Comprising Mixed Valence Manganese Ions", *Bull. Pol. Acad. Sci.-Chem.*, **1998**, 46, 273-283.
324. Barra A.-L., Gatteschi D., Sessoli R., Abbati G. L., Cornia A., Fabretti A. C., Uytterhoeven M. G. "Electronic Structure of Manganese(III) Compounds from High Frequency EPR Spectra", *Angew. Chem. Int. Edit.*, **1997**, 36, 2329-2331.
325. Fort A., Rettori A., Villain J., Gatteschi D., Sessoli R. "Mixed Quantum-Thermal Relaxation in $Mn_{12}Ac$ Molecules", *Phys. Rev. Lett.*, **1998**, 80, 612-615.
326. Abbati G.L., Cornia A., Fabretti A.C., Caneschi A., Gatteschi D. "A Ferromagnetic Ring of Six Manganese(III) with a $S = 12$ Ground State", *Inorg. Chem.*, **1998**, 37, 1430-1431.
327. Bencini A., Gatteschi D., Totti F., Sanz D.N., McCleverty J.A., Ward M.D. "Density functional modeling of long range magnetic interactions in binuclear oxomolybdenum(V) complexes", *J. Phys. Chem. A*, **1998**, 102, 10545-10551.
328. D'Auria A.C., Esposito U., Esposito F., Gatteschi D., Kamieniarz G., Walcerz S. "Numerical Transfer-Matrix Simulations of the $S = 1$ Molecular Magnetic Chains", *J. Chem. Phys.*, **1998**, 109, 1613-1616.
329. Abbati G.L., Caneschi A., Cornia A., Fabretti A.C., Gatteschi D. "Host-guest interactions for tuning the magnetic coupling in metal ion clusters", in "*Supramolecular engineering of synthetic metallic materials: conductors and magnets*", Veciana J., Rovira C., Amabilino D.B. (Eds.), NATO ASI Series, C518, Kluwer, Dordrecht, **1999**, 231-240.
330. Abbati G.L., Cornia A., Caneschi A., Fabretti A.C., Gatteschi D. "Structure and Magnetic Properties of a Mixed Valence Heptanuclear Manganese(II,III) Cluster", *Inorg. Chem.*, **1998**, 37, 3759-3766.
331. Cattaruzza E., Gonella F., Mattei G., Mazzoldi P., Battaglin G., Gatteschi D., Sangregorio C., Bertonecello R., Trivillin F. "Cobalt and Nickel nanoclusters in silica glass: microstructural and magnetic properties", *Proc. XVIII Int. Congress on Glass.*, **1998**.
332. Cattaruzza E., Gonella F., Mattei G., Mazzoldi P., Gatteschi D., Sangregorio C., Falconieri M., Salvetti G., Battaglin G. "Cobalt Nanoclusters in Silica Glass: Nonlinear Optical and Magnetic Properties", *Appl. Phys. Lett.*, **1998**, 73, 1176-1178.
333. Cannas C., Gatteschi D., Musinu A., Piccaluga G., Sangregorio C. "Structural and Magnetic Properties of Fe_2O_3 Nanoparticles Dispersed over a Silica Matrix", *J. Phys. Chem. B*, **1998**, 102, 7721-7726.
334. Barra A.L., Caneschi A., Cornia A., Fabrizi de Biani F., Gatteschi D., Sangregorio C., Sessoli R., Sorace L. "Single-Molecule Magnet Behavior of a Tetranuclear Iron(III) Complex. The Origin of Slow Magnetic Relaxation in Iron(III) Clusters", *J. Amer. Chem. Soc.*, **1999**, 121, 5302-5310.
335. Cornia A., Caneschi A., Dapporto P., Fabretti A. C., Gatteschi D., Malavasi W., Sangregorio C., Sessoli R. "Manganese(III) Formate, a Three-Dimensional Framework Carbon Dioxide Molecules", *Angew. Chem. Int. Edit.*, **1999**, 38, 1780-1782.
336. Hedinger R., Ghisletta M., Hegetschweiler K., Toth E., Merbach A.E., Sessoli R., Gatteschi D., Gramlich V. "Trinuclear Lanthanoid Complexes of 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol with a Unique, Sandwich-Type Cage Structure", *Inorg. Chem.*, **1998**, 37, 6698-6705.
337. Zimmer A., Müller I., Reiss G.J., Caneschi A., Gatteschi D., Hegetschweiler K. "Linear Primary Polyamines as Building Blocks for Coordination Polymers. 1 - Ligand Synthesis and Metal Complexes Formation of 1,2,3-Triaminopropane", *Eur J. Inorg. Chem.*, **1998**, 2079-2086.
338. Gatteschi D., Rey P. "Design, Synthesis and Properties of Nitroxide Networked Materials" in *Magnetic Properties of Organic Materials*, Lahti, P., **1999**, 121, 601-627.
339. Lascialfari A., Jang Z.H., Borsa F., Carretta P., Gatteschi D. "Thermal Fluctuations in the Magnetic Ground State of the Molecular Cluster $Mn_{12}O_{12}$ Acetate from μSR and Proton NMR Relaxation", *Phys. Rev. Lett.*, **1998**, 81, 3773-3776.
340. Lascialfari A., Jang Z.H., Borsa F., Gatteschi D., Cornia A. "Comparison of the Spin Dynamics in Different Types of Molecular Magnetic Rings from 1H NMR", *J. Appl. Phys.*, **1998**, 83, 6946-6948.
341. Caciuffo R., Amoretti G., Murani A., Sessoli R., Caneschi A., Gatteschi D. "Neutron Spectroscopy for the Magnetic Anisotropy of Molecular Clusters", *Phys. Rev. Lett.*, **1998**, 81, 4744-4747.
342. Mukhin A.A., Travkin V.D., Zvezdin A.K., Lebedev S.P., Caneschi A., Gatteschi D. "Submillimeter Spectroscopy of $Mn_{12}-Ac$ Magnetic Clusters", *Europhys. Lett*, **1998**, 44, 778-782.

343. Escuer A., Vicente R., El Fallah M.S., Kumar S.B., Mautner F.A., Gatteschi D. "Structure and magnetic behaviour of the one-dimensional $[\text{Ni}_2(\text{Medien})_2(\mu_{1,1}\text{-N}_3)(2\mu_{1,3}\text{-N}_3)]_n(\text{ClO}_4)_n$ compound with unusually strong antiferromagnetic alternating interactions", *J. Chem. Soc. Dalton Trans.*, **1998**, 3905-3909.
344. Mann K.L.V., Psillakis E., Jeffrey J.C., Rees L.H., McCleverty J.A., Ward M.D., Gatteschi D., Totti F., Mabbs F.E., McInnes E.J.L., Riedi P.C., Smith G.M. "Tetranuclear Grid-Like Copper(II) Complexes with Pyrazolate Bridges: Syntheses, Structures, Magnetic and EPR Spectroscopic Properties", *J. Chem. Soc. Dalton Trans.*, **1999**, 339-348.
345. Lascialfari A., Tabak F., Abbati G.L., Borsa F., Corti M., Gatteschi D. "Spin Dynamics and Energy Gap of a Fe Dimer from Susceptibility and ^1H NMR", *J. Appl. Phys.*, **1999**, *85*, 4539-4541.
346. Caneschi A., Cornia A., Fabretti A.C., Gatteschi D. "Structure and Magnetic Properties of a Dodecanuclear Twisted-ring iron(III) cluster", *Angew. Chem. Int. Edit.*, **1999**, *38*, 1295-1297.
347. Affronte M., Caneschi A., Cucci C., Gatteschi D., Lasjaunias J.L., Paulsen C., Pini M.G., Rettori A., Sessoli R. "Low temperature Thermodynamic Properties of Molecular Magnetic Chains", *Phys. Rev. B*, **1999**, *59*, 6282-6293.
348. Barra A. L., Caneschi A., Gatteschi D., Goldberg David P., Sessoli R. "Slow Magnetic Relaxation of $[\text{Et}_3\text{NH}]_2[\text{MnCH}_3\text{Cn}]_4(\text{H}_2\text{O})_2[\text{Mn}_{10}\text{O}_4(\text{biphen})_4\text{Br}_{12}]$ (biphen = 2,2'-biphenoxide) at Very Low Temperature", *J. Solid State Chem.*, **1999**, *145*, 484-487.
349. Hedinger R., Ghisletta M., Hegetschweller K., Toth E., Merbach A. E., Sessoli R., Gatteschi D., Gramlich V. "Trinuclear Lanthanoid Complexes of 1,3,5-Triamino-1,3,5-trideoxy-*cis*-inositol with a Unique, sandwich-Type Cage Structure", *Inorg. Chem.*, **1998**, *37*, 6698-6705.
350. Gatteschi D. "Quantum Size Effects in Molecular Magnets", *Phil. Trans. Roy. Soc. London A*, **1999**, *357*, 3079-3097.
351. Bernardini G.P., Borrini D., Caneschi A., Di Benedetto F., Gatteschi D., Ristori S., Romanelli M. "EPR and SQUID Magnetometry Study of $\text{Cu}_2\text{FeSnS}_4$ (stannite) and $\text{Cu}_2\text{ZnSnS}_4$ (kesterite)", *Phys. Chem. Miner.*, **2000**, *27*, 453-461.
352. Julien M.-H., Jang Z. H., Lascialfari A., Borsa F., Horvatic M., Caneschi A., Gatteschi D. "Proton NMR for Measuring Quantum Level Crossing in the Magnetic Molecular Ring Fe^{10} ", *Phys. Rev. Lett.*, **1999**, *83*, 227-230.
353. Dubé C. E., Sessoli R., Hendrich M. P., Gatteschi D., Armstrong H. W. "A Spin Topological Model for the $g = 4.1$ S_2 State Photosystem II Water Oxidase Manganese Aggregate" *J. Am. Chem. Soc.* **1999**, *121*, 3537-3538.
354. Cornia A., Affronte M., Jansen A.G.M., Abbati G.L., Gatteschi D. "Tuning of Magnetic Anisotropy in Hexairon(III) Rings by Host-Guest Interactions: an Investigation by High-Field Torque Magnetometry", *Angew. Chem. Int. Edit.*, **1999**, *38*, 2264-2266.
355. Caneschi A., Gatteschi D., Sangregorio C., Sessoli R., Sorace L., Cornia A., Novak M. A., Paulsen C., Wernsdorfer W. "The Molecular approach to nanoscale magnetism", *J. Magn. Magn. Mater.*, **1999**, *200*, 182-201.
356. Wernsdorfer W., Sessoli R., Gatteschi D. "Nuclear-Spin-Driven Resonant Tunnelling of Magnetisation in Mn_{12} Acetate", *Europhys. Letters*, **1999**, *47*, 254-259.
357. Caneschi A., Cianchi L., Del Giallo F., Gatteschi D., Moretti P., Pieralli F., Spina G. "Study of the spin dynamics in an iron cluster nanomagnet by means of Mossbauer spectroscopy", *J. Phys. Condens. Matter*, **1999**, *11*, 3395-3403.
358. Pontillon Y., Caneschi A., Gatteschi D., Sessoli R., Ressouche E., Schweizer J., Lelievre-Berna E. "Magnetization Density in an Iron(III) Magnetic Cluster. A Polarized Neutron Investigation", *J. Am. Chem. Soc.*, **1999**, *121*, 5342-5343.
359. Caneschi A., Dei A., Gatteschi D., Sorace L., Vostrikova K. "Antiferromagnetic Coupling in a Gadolinium(III)-Semiquinonato Complex", *Angew. Chem. Int. Edit.*, **2000**, *39*, 246-248.
360. Bellessa G., Vernier N., Barbara B., Gatteschi D. "Phonon-Assisted Tunneling in High-Spin Molecules: Experimental Evidence", *Phys. Rev. Lett.*, **1999**, *83*, 416-419.

361. Ung V. Á., Couchman S. M., Jeffery J. C., McCleverty J.A., Ward M. D., Totti F., Gatteschi D. "Electrochemical and Magnetic Exchange Interactions in Trinuclear Chain Complexes Containing Oxo-Mo(V) Fragments as Function of the Topology of the Bridging Ligand", *Inorg. Chem.*, **1999**, 38, 365-369.
362. D'Auria A. C., Esposito U., Esposito F., Gatteschi D., Kamieniarz G., Walcerz S. "Characterization of S=1 Molecular Magnetic Chains", *J. Magn. Magn. Mater*, **1999**, 197, 589-590.
363. Pontillon Y., Caneschi A., Gatteschi D., Ressouche E., Schweizer J., Sessoli S. "Spin density in a Ferromagnetic Nitronyl Nitroxide free Radical", *Physica B*, **1999**, 268, 51-55.
364. Abu-Youssef M. A. M., Escuer A., Gatteschi D., Goher M. A. S., Mautner F.A., Vicente R. "Synthesis Structural Characterization, magnetic behaviour and single crystal EPR spectra of three new one-dimensional manganese azido systems with FM, alternating FM-AF and AF coupling", *Inorg. Chem.*, **1999**, 38, 5716-5723.
365. Pontillon Y., Caneschi A., Gatteschi D., Grand A., Ressouche E., Sessoli R., Schweizer J. "Experimental Spin Density in a Purely Organic Free Radical: Visualisation of the Ferromagnetic Exchange Pathway in *p*-(Methylthio)phenyl Nitronyl Nitroxide, Nit(SMe)Ph" *Chem. Eur. J.*, **1999** 5, 3616-3624.
366. Ruiz R., Caneschi A., Gatteschi D., Gaspar A.B., Real J. A., Fernandez I., Munoz M.C. "Manganese(III)-Mediated Oxidative Carbon-Carbon Bond Cleavage of the 1,10-Phenanthroline-5,6-Dione Ligand", *Inorganic Chem. Commun.*, **1999**, 2, 521-523.
367. Barra A. L., Gatteschi D., Sessoli R. "High Frequency EPR Spectra of $[\text{Fe}_8\text{O}_2(\text{OH})_{12}(\text{tacn})_6]\text{Br}_8$. A Critical Appraisal of the Barrier for the Reorientation of the Magnetization in Single Molecule Magnets", *Chemistry - European Journal*, **2000**, 6, 1608-1614.
368. Caneschi A., Cornia A., Fabretti A. C., Gatteschi D. "Molecular Magnetic Clusters: A Bridge between Molecules and Classical Magnets" in "Crystal Engineering: from Molecules and Crystals to Materials", Braga D., Grepioni F., Orpen A. G. Eds. NATO ASI Series C: Mathematical and Physical Sciences, *Kluwer Academic Publishers*, Dordrecht/Boston/London, **1999**, 538, 369-388.
369. Bencini A., Gatteschi D., Mattesini M., Totti F., Ciofini I. "DFT Description of Mixed Valence Magnetic Systems. Mn(III)-Mn(IV) and Fe(II)-Fe(III) Complexes", *Mol. Cryst. Liq. Cryst. Sci. Tec A*, **1999**, 334, 1377-1386.
370. D'Auria A.C., Esposito F., Esposito U., Gatteschi D., Kamieniarz G., Walcerz S. "Simulations of the Molecular - Based S=1 Magnetic chains", *Mol. Cryst. Liq. Cryst.*, **1999**, 334, 1387-1396.
371. Gatteschi D., Carretta P., Lascialfari A. "Molecular magnets and magnetic nanoparticles: new opportunities for μSR investigations", *Physica B*, **2000**, 289, 94-105.
372. Lascialfari A., Carretta P., Gatteschi D., Sangregorio C., Lord J., Scott C.A. " μSR Study of Superparamagnetic Mesoscopic Cluster Fe_8 ", *Physica B*, **2000**, 289, 110-114.
373. Gatteschi D., Sessoli R., Cornia A. "Single-Molecule Magnets Based on Iron Oxo Clusters", *Chem. Commun.*, **2000**, 9, 725-732.
374. Ruiz R., Caneschi A., Gatteschi D., Sangregorio C., Sorace L., Vásquez, M. "Counter Cation-Controlled Air Oxidation of Manganese Derivatives of Tetrachlorocatechol", *Inorg. Chem. Commun.*, **2000**, 3, 76-79.
375. Gatteschi D., Sessoli R. "Magnetic Properties of Large Clusters".
376. Wernsdorfer W., Caneschi A., Sessoli R., Gatteschi D., Cornia A., Villar V., Paulsen C. "Effects of Nuclear Spins on the Quantum Relaxation of the Magnetization for the Molecular Nanomagnet Fe_8 ", *Phys. Rev. Letters*, **2000**, 84, 2965-2968.
377. Abbati G.L., Caneschi A., Cornia A., Fabretti A.C., Gatteschi D. " $[\text{Fe}(\text{OCH}_3)]_{12}$: synthesis, solid-state characterization and reactivity of a new molecular ferric wheel", *Inorg. Chim. Acta*, **2000**, 297, 291-300.
378. Lascialfari A., Jang Z. H., Borsa F., Gatteschi D., Cornia A., Rovai D., Caneschi A., Carretta P. "Magnetic and Structural Properties of an Octanuclear Cu(II) S=1/2 Mesoscopic Ring: Susceptibility and NMR Measurements", *Physical Review B*, **2000**, 61, 6839-6847.
379. Gatteschi D. "Physical Techniques for the Investigation of Molecular Magnetic Clusters", *J. Phys. Chem. B*, **2000**, 104, 9780-9787.
380. Pillet S., Souhassou M., Pontillon Y., Caneschi A., Gatteschi D., Lecomte C. "Investigation of Magnetic Interaction Pathways by Experimental Electron Density Measurements: Application to an Organic Free Radical, *p*-(methylthio)Phenyl Nitronyl Nitroxide", *New Journal of Chemistry*, **2001**, 25, 131-143.

- 381.** Gomes A. M., Novak M. A., Wernsdorfer W., Sessoli R., Sorace L., Gatteschi D. "Quantum Tunneling of Magnetization in Mn¹²Bz Clusters: Evidences of Spin Parity Effect", *J. Appl. Phys.* **2000**, *87*, 6004-6006.
- 382.** Wernsdorfer W., Sessoli R., Caneschi A., Gatteschi D., Cornia A., Maily D. "Landau-Zener Method to Study Quantum Phase Interference of Fe₈ Molecular Nanomagnets", *J. Appl. Phys.*, **2000**, *87*, 5481-5486.
- 383.** Dei A., Gatteschi D., Massa C.A., Pardi L.A., Poussereau S., Sorace L. "Spontaneous Symmetry Breaking in the Formation of a Dinuclear Gadolinium - Semiquinonato Complex: Synthesis, HF-EPR Studies and Magnetic Properties", *Chem. Eur. J.*, **2000**, *6*, 4580-4586.
- 384.** Mukhin A.A., Travkin V.D., Zvezdin A.K., Caneschi A., Gatteschi D., Sessoli R. "Electron Transitions in Magnetic Clusters Mn₁₂-Ac at Submillimeter Wavelengths", *Physica B*, **2000**, *284-288*, 1221-1222.
- 385.** Wernsdorfer W., Ohm T., Sangregorio C., Sessoli R., Gatteschi, D., Paulsen C. "Quantum Hole Digging in Magnetic Molecular Clusters", *Physica B*, **2000**, *284*, 1229-1230.
- 386.** Wernsdorfer W., Chiorescu I., Sessoli R., Gatteschi D., Maily D. "Quantum Phase Interference in Magnetic Molecular Clusters", *Physica B*, **2000**, *284*, 1231-1232.
- 387.** Cornia A., Affronte M., Jansen A.G.M., Gatteschi D., Caneschi A., Sessoli R. "Magnetic Anisotropy of Mn-12-Acetate Nanomagnets from High-Field Torque Magnetometry", *Chem. Phys. Letters*, **2000**, *322*, 477-482.
- 388.** Wernsdorfer W., Sessoli R., Caneschi A., Gatteschi D., Cornia A. "Nonadiabatic Landau-Zener Tunneling in Fe-8 Molecular Nanomagnets", *Europhys. Lett.*, **2000**, *50*, 552-558.
- 389.** Pontillon Y., Bencini A., Caneschi A., Dei A., Gatteschi D., Gillon B., Sangregorio C., Stride J., Totti F. "Spin-Density Map of the Triplet Ground State of a Titanium(IV) Complex with Schiff-Base Diquinone Radical Ligands: An Investigation Using Polarized-Neutron Diffraction and Density-Functional Theory", *Angew. Chem. Int. Edit.*, **2000**, *39*, 1786-1788.
- 390.** Bayly S., Mc Cleverty J.A., Ward M.D., Gatteschi D., Totti F. "Metal-Metal Interactions as a Function of Bridging Ligand Topology: An Electrochemical, Spectroelectrochemical, and Magnetic Study on Dinuclear Oxo-Mo(V) Complexes with Various Isomers of Dihydroxynaphthalene as Bridging Ligand", *Inorg. Chem.*, **2000**, *39*, 1288-1293.
- 391.** Jang ZH., Lascialfari A., Borsa F., Gatteschi D. "Measurement of the Relaxation Rate of the Magnetization in Mn₁₂O₁₂-Acetate Using Proton NMR Echo", *Phys. Rev. Lett.*, **2000**, *84*, 2977-2980.
- 392.** Goodwin J.C., Sessoli R., Gatteschi D., Wernsdorfer W., Powell A.K., Heath S.L. "Towards Nanostructured Arrays of Single Molecule Magnets: New Fe₁₉ Oxyhydroxide Clusters Displaying High Ground State Spins and Hysteresis", *J. Chem. Soc. Dalton Trans*, **2000**, 1835-1840.
- 393.** Caneschi A., Gatteschi D., Lalioti N., Sangregorio C., Sessoli R. "Supramolecular Interactions and Magnetism of Metal-Radical Chains", *J. Chem. Soc., Dalton Trans.*, **2000**, 3907-3912.
- 394.** Wernsdorfer W., Sessoli R., Caneschi A., Cornia A., Gatteschi D. "Nonadiabatic Landau Zener Tunneling and Quantum Phase Interference in Fe₈ Molecular Nanomagnets", *J. Phys. Soc. Jpn.*, **2000**, *69*, 375-382.
- 395.** Sessoli R., Caneschi A., Gatteschi D., Sorace L., Cornia A., Wernsdorfer W. "Isotopic Effect on the Quantum Tunneling of the Magnetization of Molecular Nanomagnets", *J. Magn. Magn. Mat.*, **2001**, *226-230*, 1954-1960.
- 396.** Papaefstathiou G.S., Tsohos A., Raptopoulou C.P., Terzis A., Psycharis V., Gatteschi D., Perlepes S. "Crystal Engineering: Stacking Interactions Control the Crystal Structures of Benzothiadiazole (btd) and its Complexes with Copper(II) and Copper(I) Chlorides", *Crystal Growth & Design*, **2001**, *1*, 191-194.
- 397.** Gatteschi D. "Single Molecule Magnets: a New Class of Magnetic Materials", *J. Alloys and Compounds*, **2001**, *317*, 8-12.
- 398.** Christou G., Gatteschi D., Hendrickson D.N., Sessoli R. "Single Molecule Magnets", *MRS Bull.*, **2000**, *25*, 66-71.
- 399.** Gatteschi D., Sessoli R., Müller A., Kögerler P. "Polyoxometalate Chemistry: a Source for Unusual Spin Topologies" in "Polyoxometalate Chemistry", Pope, M.T., A. Eds. *Kluwer Academic Publishers*, The Netherlands., **2001**, 319-328.
- 400.** Dei A., Gatteschi D., Pécaut J., Poussereau S., Sorace L., Vostrikova K. "Crystal Field and Exchange Effects in Rare Earth Semiquinone Complexes", *C. R. Acad. Sci. Ser. II C*, **2001**, *4*, 135-141.

401. Furukawa Y., Watanabe K., Kumagai K., Jang Z.H., Lascialfari A., Borsa F., Gatteschi D. "Ground State Magnetization of the Molecular Cluster $Mn_{12}O_{12}$ Acetate Seen by Proton NMR", *Phys. Rev. B*, **2000**, *62*, 14246-14251.
402. Luis F., Mettes L.F., Tejada J., Gatteschi D., De Jongh L.J. "Observation of Quantum Coherence in Mesoscopic Molecular Magnets", *Phys. Rev. Lett.*, **2000**, *85*, 4377-4380.
403. Ghigna P., Campana A., Lascialfari A., Caneschi A., Gatteschi D., Tagliaferri A., Dhési S.S., Brookes N.B. "X-ray Magnetic Circular Dichroism Spectra on the Superparamagnetic Transition Metal-Ion Clusters Mn_{12} and Fe_8 ", *Phys. Rev. B*, **2001**, *64*, 132413.
404. Sessoli R., Caneschi A., Gatteschi D., Sangregorio C., Cornia A., Wernsdorfer W. "Quantum Effects in Single-Molecule Nanomagnets", in "*Cluster Nanostructure Interfaces*", P. Jena, S. N. Khanna, B. K. Rao., Eds. Virginia Commonwealth University, USA, **1999**, 149-157.
405. Ennas G., Falqui A., Piccaluga S., SoliHinas S., Gatteschi D., Sangregorio C., Benedetti A. " Properties of Nanocrystalline Nickel Particles in Ni-SiO₂ Composites", *Z. Naturforsch Sect. A*, **2000**, *55*, 581-588.
406. Bouwen A., Caneschi A., Gatteschi D., Goovaerts E., Schoemaker D., Sorace L., Stefan M. "Single-Crystal High-Frequency Electron Paramagnetic Resonance Investigation of a Tetranuclear Iron(III) Single-Molecule Magnet", *J. Phys. Chem. B*, **2001**, *105*, 2658-2663.
407. Caneschi A., Gatteschi D., Lalioti N., Sangregorio C., Sessoli R., Venturi G., Vindigni A., Rettori A., Pini M. G., Novak M. A. "Cobalt(II)-Nitronyl Nitroxide Chains as Molecular Magnetic Nanowires", *Angew. Chem. Int. Edit.*, **2001**, *40*, 1760-1763.
408. Bayly S. R., Humphrey E. R., De Chair H., Paredes C. G., Bell Z. R., Jeffrey J. C., McCleverty J. A., Ward M. D., Totti F., Gatteschi D., Courric S., Steele B. R., Screttas G.C. "Electronic and Magnetic Metal-Metal Interactions in Dinuclear Oxomolybdenum(V) Complexes Across Bis-Phenolate Bridging Ligands with Different Spacers Between the Phenolate Termini: Ligand-Centred vs. Metal-Centred Redox Activity", *J. Chem. Soc. Dalton Trans.*, **2001**, *9*, 1401-1414.
409. Abbati G. L., Brunel L. C., Casalta H., Cornia A., Fabretti A. C., Gatteschi D., Hassan A. K., Jansen A. G. M., Maniero A. L., Pardi L., Paulsen C., Segre U. " Single-Ion Versus Dipolar Origin of the Magnetic Anisotropy in Iron(III)-Oxo Clusters: A Case Study", *Chem. Eur. J.*, **2001**, *7*, 1796-1807.
410. Caneschi A., Dei A., Gatteschi D., Tangoulis V. " Antiferromagnetic Coupling in a Six-Coordinate High Spin Cobalt(II)-Semiquinonato Complex", *Inorg. Chem.*, **2002**, *41*, 3508-3512.
411. Kumagai H., Coldea A.I., Steer,C.A., Blundell S.J., Sorace L., Gatteschi D., Kurmoo M. "A 3D-Open-Channel Organic-Inorganic Hydrid Exhibiting Collinear and Canted-Antiferromagnetism and Homometallic Ferrimagnetism", Submitted.
412. Vazquez M., Bermejo M. R., Fondo M., Gonzalez A. M., Mahia J., Sorace L., Gatteschi D. "Control of the Microarchitecture of a Double Helix - Electrochemical Syntesis and Characterisation of a Novel Dinickel (II) Helicate with Different Groove Sizes", *Eur. J. Inorg. Chem.*, **2001**, 1863-1868.
413. Gatteschi D, Sorace L. "Hints for the Control of Magnetic Anisotropy in Molecular Materials", *J. Solid State Chem*, **2001**, 253-261.
414. Luis F., Mettes F.L., Tejada J., Gatteschi D., De Jongh L.J. "Experimental Observation of Quantum Relaxation and Quantum Coherence in Molecular Magnetic Clusters", *Polyhedron*, **2001**, *20*, 1451-1457.
415. Fernandez C.D., Sangregorio C., Mattei G., Maurizio C., Battaglin G., Gonella F., Lascialfari A., Lo Russo S., Gatteschi D., Mazzoldi P., Gonzales J.M., D'Acapito F. "Magnetic Properties of Co and Ni Based Alloy Nanoparticles Dispersed in a Silica Matrix", *Nucl. Instrum. Meth. Phys. Res. B*, **2001**, *175*, 479-484.
416. Makhankova V.G., Vassilyeva O.Y., Kokozay V.N., Skelton B.W., Redijk J., Van Albada G.A., Sorace L., Gatteschi D. "A Unique Heteropentanuclear (Cu₂CoCo₂III)-Co-II-Co-II Complex, Synthesised from Metallic Cu and Co Acetate in the Presence of Triethanolamine. Magnetic Properties and a strong H-Bond Stabilised Lattice", *New J. Chem.*, **2001**, *25*, 685-689.
417. Mukhin A., Gorshunov B., Dressel M., Sangregorio C., Gatteschi D. "Optical Spectroscopy of Crystal-Field Transition in the Molecular Magnet Fe-8", *Phys. Rev. B*, **2001**, *63*, 214411.
418. Cannas C., Concas G., Gatteschi D., Falqui A., Musinu A., Piccaluga G., Sangregorio C., Spano G. "Superparamagnetic Behaviour of Gamma-Fr₂₀₃ Nanoparticles Dispersed in a Silica Matrix", *Phys. Chem. Chem. Phys.*, **2001**, *3*, 832-838.

419. Barra A.L., Bencini F., Caneschi A., Gatteschi D., Paulsen C., Sangregorio C., Sessoli R., Sorace L. "Tuning the Magnetic Properties of the High-Spin Molecular Cluster Fe_8 ", *Chem. Phys. Chem.*, **2001**, 2, 523-531.
420. Di Benedetto F., Bernardini G.P., Borrini D., Emiliani C., Cipriani C., Danti C., Caneschi A., Gatteschi D., Romanelli M. "Crystal chemistry of tetrahedrite solid-solution: EPR and magnetic investigations", *Can. Mineralog.*, **2002**, 40, 837-847.
421. Vaucher S., Charmant J. P. H., Sorace L., Gatteschi D., Mann S. "Interfacial Oxidation of Decamethylferrocene by Hexacyanoferrate: Synthesis and Characterization of $[\text{Fe}^{\text{III}}(\eta\text{-C}_5\text{Me}_5)_2]_3\text{Fe}^{\text{III}}(\text{CN})_6 \cdot 2\text{CH}_2\text{Cl}_2 \cdot 6\text{H}_2\text{O}$ ", *Polyhedron*, **2001**, 20, 2467-2472.
422. Cornia A., Affronte M., Jansen A.G.M., Gatteschi D., Caneschi A., Sessoli R. "Magnetic Anisotropy of Mn₁₂ acetate Nanomagnets from High-Field Torque Magnetometry", *Chem. Phys. Letters*, **2000**, 322, 477-482.
423. Gatteschi D., Carretta P., Lascialfari A. "Molecular Magnets and Magnetic Nanoparticles: New Opportunities for μSR investigations", *Physica B*, **2000**, 289, 94-105.
424. Bellessa G., Vernier N., Barbara B., Gatteschi D. "Spin Tunneling in Mn₁₂ cannot be assisted by Phonons at Millikelvin Temperatures- Bellessa et al, reply", *Phys. Rev. Letters*, **2000**, 85, 5260.
425. Furukawa Y., Kumagai K., Lascialfari A., Aldrovandi S., Borsa SF., Sessoli R., Gatteschi D. "NMR Study of the Molecular Nanomagnet $[\text{Fe}_8(\text{N}_3\text{C}_6\text{H}_{15})\text{O}_2(\text{OH})_{12}]\text{Br}_8 \cdot 9\text{H}_2\text{O}$ in the High Spin Magnetic Ground State", *Phys. Rev. B*, **2001**, 64, 094439.
426. Fernandez C.D., Sangregorio C., Mattei G., De G., Saber A., Lo Russo S., Battaglin G., Catalano M., Cattaruzza E., Gonella F., Gatteschi D., Mazzoldi P. "Structure and Magnetic Properties of Alloy-based Nanoparticles Silica Composites prepared by Ion-implantation and sol-gel Techniques", *Mat. Sci. Eng. C-Biomim Supram S*, **2001**, 15, 59-61.
427. Amoretti G., Carretta S., Caciuffo F., Casalta H., Cornia A., Affronte M., Gatteschi D. "Neutron Spectroscopy within the S = 5 Ground Multiplet and Low-temperature Heat Capacity in an Fe₄ Magnetic Cluster", *Phys. Rev. B*, **2001**, 64, 104403.
428. de Julian C., Sangregorio C., Mattei G., Battaglin G., Cattaruzza E., Gonella F., Lo Russo S., D'Orazio F., Lucari F., De G., Gatteschi D., Mazzoldi P. "Nanostructure and Magnetic Properties of Co-Ni Alloy Based nanoparticles dispersed in a Silica Matrix", *J. Magn. Mater.*, **2001**, 226, 1912-1914.
429. Ennas G., Casula M.F., Falqui A., Gatteschi D., Marongiu G., Piccaluga G., Sangregorio C., Pinna G. "Nanocrystalline Iron-Cobalt Alloys supported on a Silica matrix prepared by the sol-gel Method", *J. Non-Cryst. Solids*, **2001**, 293, 1-9.
430. Cornia A., Gatteschi D., Sessoli R. "New Experimental Techniques for magnetic Anisotropy in Molecular Materials", *Coord. Chem. Rev.*, **2001**, 219, 573-604.
431. Furukawa Y., Watanabe K., Kumagai K., Borsa F., Gatteschi D. "Magnetic Structure and Spin Dynamics of the Ground State of the Molecular Cluster Mn₁₂O₁₂ acetate studied by Mn-55 NMR", *Phys. Rev. B*, **2001**, 64, 104401.
432. van Slageren J., Sessoli R., Gatteschi D., Smith A.A., Helliwell M., Winpenny R.E.P., Cornia A., Barra A.L., Jansen A.G.M., Rentschler E., Timco G.A. "Magnetic Anisotropy of the Antiferromagnetic Ring $[\text{Cr}_8\text{F}_8\text{Piv}_{16}]$ ", *Chem-Eur. J.*, **2002**, 8, 277-285.
433. Caneschi A., Gatteschi D., Lalioti N., Sessoli R., Sorace L., Tangoulis V., Vindigni A. "Ising-Type Magnetic Anisotropy in a Cobalt(II) Nitronyl Nitroxide Compound: a Key to understanding the Formation of Molecular Magnetic Nanowires", *Chem-Eur. J.*, **2002**, 8, 286-292.
434. Cannas C., Casula M.F., Concas G., Corrias A., Gatteschi D., Falqui A., Musinu A., Sangregorio C., Spano G. "Magnetic Properties of $\gamma\text{-Fe}_2\text{O}_3\text{-SiO}_2$ Aerogel and Xerogel Nanocomposite Materials", *J. Mater. Chem.*, **2001**, 11, 3180-3187.
435. Affronte M., Cornia A., Lascialfari A., Borsa, F., Gatteschi D., Hinderer J., Horvatic M., Jansen A.G.M., Julien M.H. "Observation of Magnetic Level Repulsion in Fe₆:Li Molecular Antiferromagnetic Rings", *Phys. Rev. Lett.*, **2002**, 88, 167201.
436. Gatteschi D., Sorace L., Sessoli R., Barra A.L. "High-Frequency EPR: an Occasion for revisiting Ligand Field Theory", *Appl. Magn. Reson.*, **2001**, 21, 299-310.

- 437.** Cornia A., Affronte M., Gatteschi D., Jansen A., Caneschi A., Sessoli R., "High-field torque magnometry for investigating magnetic anisotropy in Mn₁₂-acetate nanomagnets", *J. Magn. Magn. Mater.*, **2001**, 226, 2012-2014.
- 438.** Carretta S., Livioti E., Amoretti G., Caciuffo R., Caneschi A., Gatteschi D., "Neutron Transitions within the S= 10 Ground Multiplet of a Fe₈ Magnetic Cluster", *Phys. Rev. B*, **2002**, 65, 052411.
- 439.** Caneschi A., Gatteschi D., Lalioti N., Sangregorio C., Sessoli R., Venturi G., Vindigni A., Rettori A., Pini M.G., Novak M.A. "Glauber Slow Dynamics of the Magnetization in a Molecular Ising Chain", *Europhys. Lett.*, **2002**, 58, 771-777.
- 440.** Benelli C., Gatteschi D. "Magnetism of Lanthanides in Molecular Materials with Transition-Metal Ions and Organic radicals", *Chem. Rev.*, **2002**, 102, 2369-2387.
- 441.** Brunel L.C., Caneschi A., Dei A., Friselli D., Gatteschi D., Hassan A.K., Lenci L., Martinelli M., Massa C.A., Pardi L.A., Popescu F., Ricci I., Sorace L. "How and Why the Characterization of Magnetic Materials can give Directions in the Methodological Development in High Field-High Frequency EPR", *Res. Chem. Intermediates*, **2002**, 28, 215-229.
- 442.** Cornia A., Fabretti A.C., Sessoli R., Sorace L., Gatteschi D., Barra A.L., Daiguebonne C., Roisnel T. "Disorder Effects in Mn₁₂ acetate at 83 K", *Acta Crystallogr. C-Cryst. Str.*, **2002**, 58, m371-m373.
- 443.** Mattei G., de Julián Fernández C., Mazzoldi P., Sada C., Dei G., Battaglin G., Sangregorio C., Gatteschi D. "Synthesis, Structure, and Magnetic Properties of Co, Ni, and Co-Ni Alloy Nanocluster-Doped SiO₂ Films by Sol-Gel Processing", *Chem. Mater.*, **2002**, 14, 3440-3447.
- 444.** Bencini A., Berti E., Caneschi A., Gatteschi D., Giannasi E., Invernizzi I. "Electronic Structure and Nature of the Ground State of the Mixed-Valence Binuclear Tetra(μ-1,8-naphthyridine-N,N')Bis(Halogenonickel) Tetraphenylborate Complexes: Experimental and DFT Characterization", *Chem. Eur. J.*, **2002**, 8, 3660-3670.
- 445.** Cannas C., Concas G., Gatteschi D., Musinu A., Piccaluga G., Sangregorio C. "How to tailor maghemite particle size in gamma-Fe₂O₃-SiO₂ nanocomposites", *J. Mater. Chem.*, **2002**, 12, 3141-3146.
- 446.** Regnault N., Jolicoeur T., Sessoli R., Gatteschi D., Verdaguer M. "Exchange coupling in the magnetic molecular cluster Mn₁₂Ac", *Phys. Rev. B*, **2002**, 66, 054409.
- 447.** Affronte M., Lasjaunias J.C., Wernsdorfer W., Sessoli R., Gatteschi D., Heath S.L., Fort A., Rettori A. "Magnetic ordering in a high-spin Fe-19 molecular nanomagnet" *Phys. Rev. B*, **2002**, 66, 64408.
- 448.** Caneschi A., Gatteschi D., Sangregorio C., Vaz M.G.F., Costantino U., Nocchetti M., Vivani R. "Intercalation of a nitronyl nitroxide radical into layered inorganic hosts. Preparation and physico-chemical characterisation", *Inorg. Chim. Acta*, **2002**, 338, 127-132.
- 449.** Watanabe K., Furukawa Y., Kumagai K.I., Borsa F., Gatteschi D. "Mn-55-NMR study of internal magnetic structure of the molecular nanomagnet Mn-12-acetate", *Mol. Cryst. Liq. Cryst.*, **2002**, 379, 185-190.
- 450.** Furukawa Y., Aizawa K., Kumagai K.I., Lascialfari A., Aldrovandi S., Borsa F., Sessoli R., Gatteschi D. "Spin dynamics of the molecular nanomagnet Fe₈ studied by H-1-NMR", *Mol. Cryst. Liq. Cryst.*, **2002**, 379, 191-196.
- 451.** Ennas G., Casula M.F., Falqui A., Gatteschi D., Marongiu G., Marras S., Piccaluga G. "Non-stoichiometric CoFe₂O₄ nanoparticles supported on an amorphous silica matrix", *J. Sol-Gel Science and technology*, **2003**, 26, 463-466.
- 452.** Barone V., Bencini A., Gatteschi D., Totti F. "DFT description of the magnetic properties and electron localization in dinuclear di-μ-oxo-bridged manganese complexes", *Chem. Eur. J.*, **2002**, 8, 5019-5027.
- 453.** Makhankova V.G., Vassilyeva O.Yu., Kokozay V.N., Skelton B.W., Sorace L., Gatteschi D. "Novel polynuclear Cu-II/Co-II complexes constructed from one and two Cu₂Co triangles with antiferromagnetic exchange coupling", *J. Chem. Soc. Dalton Trans.*, **2002**, 4253-4259.
- 454.** Shova S., Novitchi G., Gdaniec M., Caneschi A., Gatteschi D., Korobchenko Y., Voronkova V.K., Simonov Y.A., Turta C. "Helical 1D coordination polymers. Structure and magnetic properties of catena-poly[chloro(μ-(2-[hydroximino)methyl]phenoxy)acetato-N,O')copper(II)]", *Eur. J. Inorg. Chem.*, **2002**, 3313-3318.

455. Cornia A., Sessoli R., Sorace L., Gatteschi D., Barra A.L., Daiguebonne C. "Origin of second order transverse magnetic anisotropy in Mn₁₂ acetate", *Phys. Rev. Lett.*, **2002**, *89*, 257201.
456. Dei A., Gatteschi D., Sangregorio C., Sorace L., Vaz M.G.F. "HF-EPR to monitor electron transfer in mixed valence dioxolene metal complexes", *Chem. Phys. Lett.*, **2003**, *368*, 162-167.
457. Gatteschi D., Sessoli R. "Quantum tunnelling of Magnetization and Related Phenomena in Molecular Materials", *Angew. Chem. Int. Edit.*, **2003**, *42*, 268-297.
458. Gatteschi D. "Foreword: Molecular Magnetism, an Interdisciplinary Field" *Monatsh. Chem.*, **2003**, *134*, 113-115.
459. Blundell S.J., Pratt F.L., Lancaster T., Marshall I.M., Steer C.A., Hayes W., Sugano T., Letard J.-F., Caneschi A., Gatteschi D., Heath S.L. "μSR Study of Organic Systems: Ferromagnetism, Antiferromagnetism, the Spin-Cross-Over Effect, and Fluctuations in Magnetic Nanodiscs", *Physica B, Cond. Matt.*, **2003**, *326*, 556-562.
460. Stobie K.M., Bell Z.R., Munhoven T.W., Maher J.P., McCleverty J.A., Ward M.D., McInnes E.J.L., Totti F., Gatteschi D. "Mono- and di-nuclear tris(pyrazolyl)borato-oxo-tungsten(V) complexes with phenolato ligands: synthesis and structures, and magnetic, electrochemical and UV/vis/NIR spectroscopic properties", *J. Chem. Soc. Dalton Trans.*, **2003**, 36-45.
461. Dei A., Gatteschi D., Sangregorio C., Sorace L., Vaz M.G.F. "Bonding Coordination Requirements induce Antiferromagnetic Coupling between *m*-Phenylene bridged *o*-iminosemiquinonato Diradicals", *Inorg. Chem.*, **2003**, *42*, 1701-1706.
462. Furukawa Y., Watanabe K., Kumagai K., Borsa F., Sasaki T., Kobayashi N., Gatteschi D. "Internal Magnetic Structure and Spin Dynamics in Transverse field of the Molecular Nanomagnet Mn₁₂-Acetate studied by Mn-55 NMR", *Phys. Rev. B*, **2003**, *67*, 064426.
463. Amoretti G., Caciuffo R., Carretta S., Cornia A., Gatteschi D., Kulda J., Livioti E. "Intra- and Inter-multiplet Neutron Transitions in an Fe-4 Magnetic Cluster", *Appl. Phys. A*, **2002**, *74*, S929-S931.
464. Vazquez M., Bermejo M.R., Fondo M., Garcia-Deibe A.M., Sanmartin J., Pedrido R., Sorace L., Gatteschi D. "Monohelical Complexes of a Novel Asymmetric N-4 Schiff Base: Unfamiliar Tetrahedral Environments of Manganese(II) and Iron(II) Helicates", *Eur. J. Inorg. Chem.*, **2003**, 1128-1135.
465. Carretta S., van Slageren J., Guidi T., Livioti E., Mondelli C., Rovai D., Cornia A., Dearden A.L., Carsughi F., Affronte M., Frost C.D., Winpenny R.E.P., Gatteschi D., Amoretti G., Caciuffo R. "Microscopic Spin-Hamiltonian of a Cr₈ Antiferromagnetic Ring from Inelastic Neutron Scattering", *Phys. Rev. B*, **2003**, *67*, 094405.
466. Caneschi A., Dei A., Gatteschi D., Massa C.A., Pardi L.A., Pousserau L., Sorace L. "Evaluating the Magnetic Anisotropy in Molecular Rare Earth Compounds. Gadolinium Derivatives with Semiquinone Radical and Diamagnetic Analogues", *Chem. Phys. Lett.*, **2003**, *371*, 694-699.
467. Lescouezec R., Vaissermann J., Ruiz-Perez C., Lloret F., Carrasco R., Julve M., Verdaguer M., Dromzee Y., Gatteschi D., Wernsdorfer W. "Cyanide-bridged Iron(III)-Cobalt(II) double zigzag Ferromagnetic Chains: Two New Molecular Magnetic Nanowires", *Angew. Chem. Int. Edit.*, **2003**, *42*, 1483-1486.
468. Cornia A., Fabretti A.C., Pacchioni M., Zobbi L., Bonacchi D., Caneschi A., Gatteschi D., Biagi R., Del Pennino U., De Renzi V., Gurevich L., van der Zant H.S.J. "Direct Observation of Single-Molecule Magnets Organized on Gold Surfaces", *Angew. Chem. Int. Edit.*, **2003**, *42*, 1645-1648.
469. D'Orazio F., Lucari F., Melchiorri M., Fernandez C.D., Mattei G., Mazzoldi P., Sangregorio C., Gatteschi D., Fiorani D. "Blocking Temperature Distribution in Implanted Co-Ni Nanoparticles Obtained by Magneto-Optical Measurements", *J. Magn. Magn. Mater.*, **2003**, *262*, 111-115.
470. Lascialfari A., Micotti E., Aldrovandi S., Caneschi A., Gatteschi D. "Proton Nuclear Magnetic Resonance Investigation of the Spin Dynamics in Cobalt Based One-Dimensional Magnetic Molecular Chains", *J. Appl. Phys.*, **2003**, *93*, 8749-8751.
471. Casula M.F., Corrias A., Falqui A., Serin V., Gatteschi D., Sangregorio C., Fernandez C.D., Battaglin G. "Characterization of FeCo-SiO₂ Nanocomposite films prepared by Sol-gel Dip Coating", *Chem. Mater.*, **2003**, *15*, 2201-2207.
472. Ruiz E., Cano J., Alvarez S., Caneschi A., Gatteschi D. "Theoretical Study of the Magnetic Behavior of Hexanuclear Cu(II) and Ni(II) Polysiloxanolato Complexes", *J. Am. Chem. Soc.*, **2003**, *125*, 6791-6794.

- 473.** Lascialfari A., Ullu R., Affronte M., Cinti F., Caneschi A., Gatteschi D., Rovai D., Pini M.G., Rettori A. "Specific Heat and μ SR Measurements in $\text{Gd}(\text{hfac})_3\text{NiTiPr}$ Molecular Magnetic Chains: Indications for a Chiral Phase without Long-Range Helical Order", *Phys. Rev. B*, **2003**, *67*, 22408.
- 474.** Vazquez M., Taglietti A., Gatteschi D., Sorace L., Sangregorio C., Gonzalez A.M. Maneiro M., Pedrido R.M., Bermejo M.R. "A 3D Network of Helicates Fully assembled by π -stacking Interactions", *Chem. Comm.*, **2003**, 1840-1841.
- 475.** Ajiro Y., Inagaki Y., Itoh H., Asano T., Narumi Y., Kindo K., Sakon T., Nojiri H., Motokawa M., Cornia A., Gatteschi D., Müller A., Barbara B. "Quantum Level Structure of Molecular Magnets, Fe12 and V15", *Physica B*, **2003**, *329*, 1138-1139.
- 476.** Furukawa Y., Watanabe K., Kumagai K., Borsa F., Gatteschi D. "Transverse Magnetic Field Effects on the Relaxation Time of the Magnetization in Mn12 measured by Mn55 NMR", *Physica B*, **2003**, *329*, 1146-1147.
- 477.** Champion G., Lalioi N., Tangoulis V., Arrio M.A., Sainctavit P., Villain F., Caneschi A., Gatteschi D., Giorgetti C., Baudalet F., Verdager M., Moulin C.C.D. "XMCD for monitoring Exchange Interactions. The role of the Gd 4f and 5d orbitals in metal-Nitronyl Nitroxide Magnetic Chains", *J. Am. Chem. Soc.*, **2003**, *125*, 8371-8376.
- 478.** Inagaki Y., Asano T., Ajiro Y., Narumi Y., Kindo K., Cornia A., Gatteschi D. "High Field Magnetization Process in Dodecanuclear Fe(III) Ring Cluster", *J. Phys. Soc. Jpn.*, **2003**, *72*, 1178-1183.
- 479.** Moroni R., Moulin C.C.D., Champion G., Arrio M.A., Sainctavit P., Verdager M., Gatteschi D. "X-ray magnetic circular dichroism investigation of magnetic contributions from Mn(III) and Mn(IV) ions in Mn12-ac", *Phys. Rev. B*, **2003**, *68*, 064407.
- 480.** Bencini A., Caneschi A., Carbonera C., Dei A., Gatteschi D., Righini R., Sangregorio C., van Salgeren J. "Tuning the physical properties of a metal complex by molecular techniques: the design and synthesis of the simplest cobalt-*o*-dioxolene complex undergoing valence tautomerism", *J. Mol. Structure*, **2003**, *656*, 141-154.
- 481.** Figuerola A., Diaz C., Ribas J., Tangoulis V., Sangregorio C., Gatteschi D., Maestro M., Mahia J. "Magnetism of cyano-bridged hetero-one-dimensional Ln(3+)-M3+ complexes (Ln(3+)= Sm, Gd, Yb; M3+= Fe-LS, Co)", *Inorg. Chem.* **2003**, *42*, 5274-5281.
- 482.** Van Slageren J., Ahmedova A., Gatteschi D., Massa C.A., Pardi L.A. "High-frequency EPR of a copper(II) trimer: experiment time scale effects in EPR spectroscopy", *Inorg. Chim. Acta*, **2003**, *351*, 59-62.
- 483.** Blundell S.J., Pratt F.L., Marshall I.M., Steer C.A., Hayes W., Letard J.F., Heath S.L., Caneschi A., Gatteschi D. "Muon study of molecular magnets, spin crossover and magnetic nanodiscs", *Synth. Metals*, **2003**, *133*, 531-533.
- 484.** Affronte M., Guidi, T., Caciuffo R., Carretta S., Amoretti G., Hinderer J., Sheikin I., Jansen A.G.M., Smith A.A., Winpenny R.E.P., Van Slageren J., Gatteschi D. "Mixing of magnetic states in a Cr-8 molecular ring", *Phys. Rev. B*, **2003**, *68*, art. no. 104403.
- 485.** Van Slageren J., Vongtragool S., Gorshunov B., Mukhin A.A., Karl N., Krzystek J., Telser J., Muller A., Sangregorio C., Gatteschi D., Dressel M. "Frequency-domain magnetic resonance spectroscopy of molecular magnetic materials", *Phys. Chem. Chem. Physics*, **2003**, *5*, 3837-3843.
- 486.** Abbati G.L., Barra A.L., Caneschi A., Cornia A., Costantino A.F., Gatteschi D., Pozdniakova Y.A., Shchegolikhina O.I. "Rational design of large-spin clusters based on the hexacopper(II) siloxanolate core", *Compte Rendus des Academie des Science, Chimie*, **2003**, *6*, 645-656.
- 487.** Bencini A., Caneschi A., Dei A., Gatteschi D., Sangregorio C., Shultz D., Sorace L., Vaz M.G.F. "Polyoxolenes may provide a tool for designing paramagnetic molecules with predetermined spin topologies", *Compte Rendus des Academie des Science, Chimie*, **2003**, *6*, 663-676.
- 488.** Voronkova V.K., Galeev R.T., Shova S., Novitchi G., Turta C.I., Caneschi A., Gatteschi D., Lipkowski J., Simonov Y.A. "Exchange interaction and spin dynamics in pentanuclear clusters, $\text{Cu}(3)\text{Ln}(2)(\text{ClCH}_2\text{COO})(12)(\text{H}_2\text{O})(8)$ (Ln = Nd³⁺, Sm³⁺, Pr³⁺)", *Appl. Magn. Res.*, **2003**, *25*, 227-247.
- 489.** Gatteschi D., Sessoli R., Caneschi A., Bogani L., Vindigni A. "Single chain magnets", *Abstr. Pap. Amer. Chem. Soc.*, **2003**, *225 (part 2)*, 786.
- 490.** Bonacchi A., Caneschi A., Gatteschi D., Sangregorio C., Sessoli R., Falqui A., "Synthesis and characterisation of metal oxides nanoparticles entrapped in cyclodextrin", *J. Phys. and Chem. of Solids*, **2004**, *65*, 719-722.

491. D. Gatteschi "Magnetic molecules", in L. Ouahab and E. Yagubskii (edited by), "Organic Conductors, Superconductors and Magnets: From Synthesis to Molecular Electronics", *Kluwer Academic Publishers*, **2004**, 179-196.
492. de Julián Fernández C., Tagliente M.A., Mattei G., Sada C., Bello V., Maurizio C., Battaglin G., Sangregorio C., Gatteschi D., Tapfer L., Mazzoldi P. "Structural and magnetic properties of FeAl silica composites prepared by sequential ion implantation", *Nuclear Instruments and Methods Research B*, **2004**, 254-250.
493. Caneschi A., Dei A., Gatteschi D., Poussereau S., Sorace L. "Antiferromagnetic coupling between rare earth ions and semiquinones in a series of 1 : 1 complexes", *Dalton Transactions*, **2004**, 1048-1055.
494. Cornia A., Fabretti A.C., Garrisi P., Mortalo C., Bonacchi D., Gatteschi D., Sessoli R., Sorace L., Wernsdorfer W., Barra A.L. "Energy-barrier enhancement by ligand substitution in tetrairon(III) single-molecule magnets", *Angew. Chem. Int. Edit.*, **2004**, 1136-1139.
495. Affronte A., Sessoli R., Gatteschi D., Wernsdorfer W., Lasjaunias J.C., Heath S.L., Powell A.K., Fort A., Rettori A. "Effects of intercluster coupling in high spin molecular magnets", *J. Phys. Chem. of Solids*, **2004**, 745-748.
496. Bencini A., Costes J P., Dahan F., Dupuis A., Garcia-Tojal J., Gatteschi D., Totti F. "A dinuclear copper(II) complex with a Cu(O, N-O)Cu bridging core: structural and magnetic (experimental and density functional theory) studies", *Inorg. Chim. Acta*, **2004**, 2150-2156.
497. Casellas H., Mandonnet A., Caneschi A., Gatteschi D. "Towards new single chain magnets: Use of the [Cu(bpca)₂] complexed bridging ligand [Hbpca=bis(2-pyridilcarbonyl)amine]", *J. Phys. IV France*, **2004**, 617-619.
498. Lascialfari A., Borsa F., Corti M., Micotti E., Furukawa Y., Cornia A., Gatteschi D. "Li-7 nuclear magnetic resonance in the hexairon(III) antiferromagnetic molecular ring Fe₆ : Li", *J. of App. Phys.* , **2004**, 6879-6881.
499. Vindigni A., Bogani L., Gatteschi D., Sessoli R., Rettori A., Novak M.A. "Finite size effects on the experimental observables of the Glauber model: a theoretical and experimental investigation", *J. Magn. Magn. Mat.*, **2004**, 272-276, 297-298.
500. Gatteschi D., Sessoli, R. "Molecular nanomagnets: the first 10 years", *J. Magn. Magn. Mat.*, **2004**, 1030 -1036.
501. Lascialfari A., Borsa F., Julien M.H., Micotti E., Furukawa D., Jang Z.H., Cornia A., Gatteschi D., Horvatic M., Van Slageren J. "Spin dynamics at level crossing in molecular AF rings probed by NMR", *J. Magn. Magn. Mat.*, **2004**, 1042-1047.
502. Affronte M., Guidi T., Caciuffo R., Carretta S., Amoretti G., Hinderer J., Sheikin I., Smith A.A., Winpenny R.E.P., van Slageren J., Gatteschi D. "Level crossing in a molecular Cr-8 ring", *J. Magn. Magn. Mat.* , **2004**, 1050-1051.
503. Lascialfari A., Ullu R., Affronte M., Cinti F., Caneschi A., Gatteschi D., Rovai D., Pini M.G., Rettori A. "Indication for a chiral phase in the molecular magnetic chain Gd(hfac)(3)NiTiPr by specific heat and mu+SR measurements", *J. Magn. Magn. Mat.*, **2004**, 1052-1053.
504. Dei A., Gatteschi D., Sangregorio C., Sorace L., Vaz M.G.F "Antiferromagnetic exchange in meta-phenylene bridged bis(tris-*o*-iminosemiquinonato)metal complexes", *J. Magn. Magn. Mat.*, **2004**, 1083-1084.
505. Micotti E., Lascialfari A., Rigamonti A., Aldrovandi S., Caneschi A., Gatteschi D., Bogani L. "Novel spin dynamics in ferrimagnetic molecular chains from H-1 NMR and mu SR spin-lattice relaxation measurements", *J. Magn. Magn. Mat.*, **2004**, 1087-1088.
506. Bogani L., Caneschi A., Fedi M., Gatteschi D., Massi M., Novak M.A., Pini M.G., Rettori A., Sessoli R., Vindigni A. "Finite-size effects in single chain magnets: An experimental and theoretical study", *Phys. Rev. Lett.*, **2004**, art. no. 207204.
507. Bonacchi D., Caneschi A., Dorignac D., Falqui A., Gatteschi D., Rovai D., Sangregorio C., Sessoli R., "Nanosized iron oxide particles entrapped in pseudo-single crystals gamma-cyclodextrin", *Chem. of Mat.*, **2004**, 16 (10), 2016-2020.
508. Condorelli G.G., Motta A., Fragala I.L., Giannazzo F., Raineri V., Caneschi A., Gatteschi D. "Anchoring molecular magnets on the Si(100) surface", *Ang. Chem.-Int. Ed.*, **2004**, 43 (31), 4081-4084.
509. Cador O., Gatteschi D., Sessoli R., Larsen F.K., Overgaard J., Barra A.L., Teat S.J., Timco G.A., Winpenny R.E.P. "The magnetic Mobius strip: Synthesis, structure, and magnetic studies of odd-numbered antiferromagnetically coupled wheels", *An. Chem.-Int. Ed.*, **2004**, 43 (39), 5196-5200.
510. Fernandez C.D., Mattei G., Sangregorio C., Tagliente M.A., Bello V., Battaglin G., Sada C., Tapfer L., Gatteschi D., Mazzoldi P. "Structure and magnetic properties of Fe-Pd silica composites prepared by sequential ion implantation", *J. Non-Cryst. Solids*, **2004**, 345-46, 681-684.
511. Dei A., Gatteschi D., Sangregorio C., Sorace L. "Quinonoid metal complexes: Toward molecular switches", *Acc. Chem. Res.*, **2004**, 37, 827-835.

- 512.** Pacchioni M., Cornia A., Fabretti A.C., Zobbi L., Bonacchi D., Caneschi A., Chastanet G., Gatteschi D., Sessoli R. "Site-specific ligation of anthracene-1,8-dicarboxylates to an Mn-12 core: a route to the controlled functionalisation of single-molecule magnets", *Chem. Comm.*, **22**, **2004**, 2604-2605.
- 513.** Carretta S., Santini P., Amoretti G., Guidi T., Caciuffo R., Candini A., Cornia A., Gatteschi D., Plazanet M., Stride J.A. "Intra- and inter-multiplet magnetic excitations in a tetrairon(III) molecular cluster", *Phys. Rev. B*, **70**, **2004**, art. no. 214403.
- 514.** Messina P., Sigalotti P., Lenci L., Prato S., Gatteschi D. "Construction of an ESR-STM for single molecular based magnets anchored at surfaces", *IEEE, Nanotechnology*, **2004**, 642-644.
- 515.** Messina P., Mannini M., Sorace L., Rovai D., Caneschi A., Gatteschi D. "Patterning molecular scale paramagnets at Au surfaces: a route to magneto-molecular-electronics", *IEEE, Nanotechnology*, **2004**, 645-647.
- 516.** Platonov V.V., Barbara B., Caneschi A., Clark D.A., Fowler C.M., Gatteschi D., Goettee J.D., Lubashevsky I.A., Mukhin A.A., Plis V.I., Popov A.I., Rickel, D.G., Sessoli R., Tatsenko O.M., Zvezdin A.K. "Quantum Transformation of Molecular Ferrimagnet Mn₁₂ in Megagauss Fields" in "Megagauss magnetic field generation, its applications to science and ultra-high pulsed-power technology", Ed. J.Schneider-Muntau, *World Scientific*, **2004**.
- 517.** Claiser N., Souhassou M., Lecomte C., Gillon B., Carbonera C., Caneschi A., Dei, A., Gatteschi D., Bencini A., Pontillon Y., Lelièvre-Berna E. "Combined Charge and Spin Density Experimental Study of the Yttrium(III) Semiquinonato Complex Y(HBPz3)2(DTBSQ) and DFT Calculations », *J. Phys. Chem. B*, **109**, **2005**, 2723-2732.
- 518.** Zobbi L., Mannini M., Pacchioni M., Chastanet G., Bonacchi D., Zanardi C., Biagi R., Del Pennino U., Gatteschi D., Cornia A., Sessoli R. "Isolated single-molecule magnets on native gold", *Chem. Comm.*, **12**, **2005**, 1640-1642.
- 519.** Chai J., Zhu H., Stüchl A.C., Roesky, H.W. Magull J., Bencini A., Caneschi A., Gatteschi D. "Synthesis and Reaction of $[(HC(CMeNAr)_2)Mn]_2$ (Ar= 2,6-iPr₂C₆H₃): the complex containing three-coordinate manganese(I) with a Mn-Mn bond exhibiting unusual magnetic properties and electronic structure" *J. Am. Chem. Soc.* **2005**, **127**, 9201-9206.
- 520.** Bogani L., Sessoli R., Pini M. G., Rettori A., Novak M., Rosa P., Massi M., Fedi M. E., Giuntini L., Caneschi A., Gatteschi D. "Finite Size Effects on the Static Properties a Single Chain Magnet", *Phys. Rev. B*, **2005**, **72**, art. n. 064406.
- 521.** Cador O., Gatteschi D., Sessoli R., Barra A.L., Timco G.A., Winpenny R.E.P. "Spin frustration effects in an odd-member antiferromagnetic ring and the magnetic Möbius strip", *J. Magn. Magn. Mat.*, **2005**, **290**, 55-60.
- 522.** Kamieniarz G., Haglauer M., D'Auria A.C., Esposito F., Gatteschi D. "Simulations of the low-dimensional molecular-based spin systems: dodecanuclear nickel ring", *J. Magn. Magn. Mat.*, **2005**, **290**, 970-973.
- 523.** Altavilla C., Ciliberto E., Gatteschi D., Sangregorio C. "A new route to fabricate monolayers of magnetite nanoparticles on silicon", **17**, *Adv. Mat.*, **2005**, 1084.
- 524.** Cinti, M. Affronte, A. Lascialfari, M. Barucci, E. Olivieri, E. Pasca, A. Rettori, L. Risegari, G. Ventura, M.G. Pini, A. Cuccoli, T. Roscilde, A. Caneschi, D. Gatteschi, D. Rovai "Chiral and helical phase transitions in quasi-1D molecular magnets", *Polyhedron*, **2005**, **24**, 2568-2572.
- 525.** Barra A.L., Gatteschi D., Sessoli R., Sorace L. "High-field/high-frequency EPR studies of spin clusters with integer spin: the multi-frequency approach", *Magn. Reson. In Chem.*, **2005**, **43**, S183-S191.
- 526.** Di Benedetto F., Andreozzi G.B., Bernardini G.P., Borgheresi M., Caneschi A., Cipriani C., Gatteschi D., Romanelli M. "Short-range order of Fe²⁺ in sphalerite by Fe-57 Mossbauer spectroscopy and magnetic susceptibility", *Phys. Chem. Minerals*, **2005**, **32**, 339-348.
- 527.** Bogani L., Sangregorio C., Sessoli R., Gatteschi D. "Molecular Engineering for Single-Chain-Magnet Behavior in a One-Dimensional Dysprosium-Nitronyl Nitroxide Compound", *Angew. Chem. Int. Edit.*, **2005**, **44**, 5817-5821.
- 528.** Mannini M., Bonacchi D., Zobbi L., Piras F.M., Speets E.A., Caneschi A., Cornia A., Magnani A., Ravoo B.J., Reinhoudt D.N., Sessoli R., Gatteschi D. "Advances in Single-Molecule Magnet Surface Patterning Through Microcontact Printing", *Nano Letters*, **2005**, **5**, 1435-1438.
- 529.** Vindigni A., Rettori A., Bogani L., Caneschi A., Gatteschi D., Sessoli R., Novak M.A. "Fast Switching of Bistable Magnetic Nanowires Through Collective Spin Reversal", *Appl. Phys. Lett.*, **2005**, **87**, 073102.
- 530.** Sorace L., Golze C., Gatteschi D., Bencini A., Roesky H.W., Chai J., Stüchl A.C. "Low-valent low-coordinated manganese(I) ion dimer: A temperature dependent W-Band EPR study", *Inorg. Chem.*, **2006**, **45**, 395-400.
- 531.** Bencini A., Beni A., Costantino F., Dei A., Gatteschi D., Sorace L. "The influence of ligand field effects on the magnetic exchange of high-spin Co(II)-semiquinonate complexes", *Dalton Trans.*, **2006**, 722-729.

- 532.** Lima N., Caneschi A., Gatteschi D., Kritikos M., Westin L.G. "Validity of the classical Monte Carlo method to model the magnetic properties of a large transition-metal cluster: Mn-19", *Inorg. Chem.*, **2006**, *45*, 2391-2393.
- 533.** Accorsi S., Barra A.L., Caneschi A., Chastanet G., Cornia A., Fabretti A.C., Gatteschi D., Mortalo C., Olivieri E., Parenti F., Rosa P., Sessoli R., Sorace L., Wernsdorfer W., Zobbi L. "Tuning anisotropy barriers in a family of tetrairon(III) single-molecule magnets with an S=5 ground state", *J. Am. Chem. Soc.*, **2006**, *128*, 4742-4755.
- 534.** Condorelli G.G., Motta A., Favazza M., Nativo P., Fragalà I.L., Gatteschi D., "Density control of dodecamanganese clusters anchored on silicon(100)", *Chem.-Eur. J.*, **2006**, *12*, 3558-3566.
- 535.** Bernot K., Bogani L., Caneschi A., Gatteschi D., Sessoli R. "A family of rare-earth-based single chain magnets: Playing with anisotropy", *J. Am. Chem. Soc.*, **2006**, *128*, 7947-7956.
- 536.** Gatteschi D., Barra A.L., Caneschi A., Cornia A., Sessoli R., Sorace L., "EPR of molecular nanomagnets", *Coord. Chem. Rev.*, **2006**, *250*, 1514-1529.
- 537.** Georgieva E.R., Pardi L., Jeschke G., Gatteschi D., Sorace L., Yordanov N.D., "High-field/high-frequency EPR study on stable free radicals formed in sucrose by gamma-irradiation", *Free Radical Research*, **2006**, *40*, 553-563.
- 538.** Bogani L., Cavigli L., Bernot K., Sessoli R., Gurioli M., Gatteschi D. "Evidence of intermolecular pi-stacking enhancement of second-harmonic generation in a family of single chain magnets", *J. Mater. Chem.*, **2006**, *16*, 2587-2592.
- 539.** Coronado E., Gatteschi D., "Trends and challenges in molecule-based magnetic materials", *J. Mater. Chem.*, **2006**, *16*, 2513-2515.
- 540.** Di Benedetto F., Borgheresi M., Caneschi A., Chastanet G., Cipriani C., Gatteschi D., Pratesi G., Romanelli M., Sessoli R. "First Evidence of natural Superconductivity: Covellite", *Eur. J. Mineral.*, **2006**, *18*, 283-287.
- 541.** Del Pennino U., De Renzi V., Biagi R., Corradini V., Zobbi L., Cornia A., Gatteschi D., Bondino F., Magnano E., Zangrando M., Zacchigna M., Lichtenstein A., Boukhalov D.W. "Valence band Resonant Photoemission of Mn₁₂ Single Molecules grafted on Au(111) surface", *Surface Science*, **2006**, *600*, 4185-4189.
- 542.** Cornia A., Costantino A.F., Zobbi L., Caneschi A., Gatteschi D., Mannini M., Sessoli R., "Preparation of novel materials using SMMs" *Structure and Bonding*, **2006**, *122*, 133-161.
- 543.** Messina P., Mannini M., Caneschi A., Gatteschi D., Sorace L., Sigalotti P., Sandrin C., Prato S., Pittana P., Manassen Y., "Spin noise fluctuations from paramagnetic molecular adsorbates on surfaces" *J. Appl. Phys.*, **2007**, *101*, 053916.
- 544.** Bianchini C., Gatteschi D., Giambastiani G., Rios I.G., Ienco A., Laschi F., Mealli C., Meli A., Sorace L., Toti A., Vizza F. "Electronic influence of the thienyl sulfur atom on the oligomerization of the ethylene by cobalt, pyridine catalysis. *Organometallics*, **2007**, *26*, 726 - 739.
- 545.** Pointillart F., Bernot K., Sessoli R., Gatteschi D., "Effects of 3d-4f magnetic exchange interactions on the dynamics of the magnetization of Dy-III-M-II-Dy-III trinuclear clusters", *Chemistry-a European Journal*, **2007**, *13*, 1602-1609.
- 546.** Mannini M., Sorace L., Gorini L., Piras, Federica M., Caneschi A., Magnani A., Menichetti S., Gatteschi D., "Self-assembled organic radicals on Au(111) surfaces: A combined ToF-SIMS, STM, and ESR study", *Langmuir*, **2007**, *23*, 2389-2397.
- 547.** Cavigli L., Fernandez C.D., Gatteschi D., Gurioli M., Sangregorio C., Mattei G., Mazzoldi P., Bogani L., "Magneto-optical detection of the relaxation dynamics of alloy nanoparticles with a high-stability magnetic circular dichroism setup", *J. Magn. Magn. Mat.*, **2007**, *316*, E798-E801.
- 548.** Gatteschi D. "A coupling powered by nature", *Nat. Mat.*, **2007**, *6*, 471-472.
- 549.** Pointillart F., Bernot K., Sorace L., Sessoli R., Gatteschi D. "Ferromagnetic interactions in Ru(III)-nitronyl nitroxide radical complex: a potential 2p4d building block for molecular magnets", *Dalton T.*, **2007**, *25*, 2689-2695.
- 550.** Letard I., Sainctavit P., Cartier dit Moulin C., Kappler J.P., Ghigna P., Gatteschi, D., Doddi B. "Remnant magnetization of Fe₈ high-spin molecules: X-ray magnetic circular dichroism at 300 mK", *J. Appl. Phys.*, **2007**, *101*, 113920.
- 551.** Cinti F., Rettori A., Barucci M., Olivieri E., Risegari L., Ventura G., Caneschi A., Gatteschi D., Rovai D., Pini M.G., Affronte M., Mariani M., Lascialfari A. "Evidence for a helical and a chiral phase transition in the Gd(hfac)(3)NiTiPr magnetic specific heat", *J. Magn. Magn. Mat.*, **2007**, *310*, 1460-1461.
- 552.** Poneti G., Bernot K., Bogani L., Caneschi A., Sessoli R., Wernsdorfer W., Gatteschi D. "A rational approach to the modulation of the dynamics of the magnetisation in a dysprosium-nitronyl-nitroxide radical complex", *Chem. Comm.*, **2007**, 1807-1809.
- 553.** Cariati E., Macchi R., Dominique R., Ugo R., Galli S., Casati N., Macchi P., Sironi A., Bogani L., Caneschi A., Gatteschi D. "Polyfunctional inorganic-organic hybrid materials: An unusual kind of

- NLO active layered mixed metal oxalates with tunable magnetic properties and very large second harmonic generation" , *J. Am. Chem. Soc.*, **2007**, *129*, 9410-9420.
554. Kamieniarz G., Haglauer M., Musial G., D'Auria A. Caramico, Esposito, F., Gatteschi, D. "Single-ion anisotropy effects on the energy spectra of spin S=1 Heisenberg ring", *Inorg. Chem. Acta*, **2007**, *360*, 3941-3944.
555. Mariani M., Aldrovandi S., Corti M., Lago J., Lascialfari A., Micotti E., Rettori A., Cinti F., Amato A., Baines C., Bogani, L., Caneschi A., Cottrell S. P., Gatteschi D. "Local spin dynamics in magnetic molecular chains studied by NMR and μ SR", *Inorg. Chim. Acta*, **2007**, *360*, 3903-3908.
556. Mannini M., Messina P., Sorace L., Gorini L., Fabrizioli M., Caneschi A., Manassen Y., Sigalotti P., Pittana P., Gatteschi D. "Addressing individual paramagnetic molecules through ESN-STM", *Inorg. Chim. Acta*, **2007**, *360*, 3837-3842.
557. Bernot K., Bogani L., Sessoli R., Gatteschi D. "[Tm-III(hfac)(3)(NITPhOPh)](∞): A new member of a lanthanide-based single chain magnets family", *Inorg. Chim. Acta*, **2007**, *360*, 3807-3812.
558. Gillon B., Sangregorio C., Caneschi A., Gatteschi D., Sessoli R., Ressouche E., Pontillon Y., "Experimental spin density in the high spin ground state of the Fe(8)pcI cluster", *Inorg. Chem. Acta*, **2007**, *360*, 3802-3806.
559. Altavilla C., Ciliberto E., Aiello A., Sangregorio C., Gatteschi D., "A shortcut to organize self-assembled monolayers of cobalt ferrite nanoparticles on silicon", *Chem. Mat.*, **2007**, *19*, 5980-5985.
560. Bogani L., Cavigli L., Gurioli M., Novak Rafael L., Mannini M., Caneschi, A., Pineider F., Sessoli R., Clemente-Leon M., Coronado E., Cornia A., Gatteschi D., "Magneto-optical investigations of nanostructured materials based on single-molecule magnets monitor strong environmental effects", *Advanced Mat.*, **2007**, *19*, 3906.
561. Barra A.L., Caneschi A., Cornia A., Gatteschi D., Gorini L., Heiniger L.P., Sessoli R., Sorace L. "The origin of transverse Anisotropy in axially symmetric single molecule magnets", *J. Am. Chem. Soc.*, **2007**, *129*, 10754-10762.
562. Barra A.L., Bianchi F., Caneschi A., Cornia A., Gatteschi D., Gorini L., Gregoli L., Maffini M., Parenti F., Sessoli R., Sorace L., Talarico A.M. "New Single-Molecule Magnets by Site-Specific Substitution: Incorporation of "Alligator Clips" into Fe₄ Complexes", *Eur J. Inorg. Chem.*, **2007**, 4145-4152.
563. Cinti F., Rettori A., Pini M. G., Mariani M., Micotti E., Lascialfari A., Papinutto N., Amato A., Caneschi A., Gatteschi D., Affronte M., "Two-step magnetic ordering in quasi-one-dimensional helimagnets: Possible experimental validation of Villain's conjecture about a chiral spin liquid phase", *Phys. Rev. Lett.*, **2008**, *100*, 057203.
564. Braeuer B., Weigend F., Fittipaldi M., Gatteschi D., Reijerse E.J., Guerri A., Ciattini S., Salvan G., Rueffer T. "Electron paramagnetic resonance and density-functional theory studies of Cu(II)-bis(oxamato) complexes", *Inorg. Chem.*, **2008**, *47*, 6633-6644.
565. Mannini M., Sainctavit P., Sessoli R., Moulin C.C.D., Pineider F., Arrio M., Cornia A., Gatteschi D. "XAS and XMCD investigation of Mn-12 monolayers on gold", *Chem. Eur. J.*, **2008**, *14*, 7530-7535.
566. Bogani L., Vindigni A., Sessoli R., Gatteschi D. "Single chain magnets: where to from here?", *J. Mater. Chem.*, **2008**, *18*, 4750-4758.
567. Ahmedova A., Cador O., Sorace L., Ciattini S., Gatteschi D., Mitewa M. "X-ray structure and magnetochemical study on a Co(II) complex of 2-acetyl-1,3-indandione", *J. Coord. Chem.*, **2008**, *61*, 3879-3886.
568. Verdagner M., Gatteschi D. "Magnetisme moleculaire: nouvelles tendances New trends in molecular magnetism Foreword", *Comptes Rendus Chimie*, **2008**, *11*, 1083-1084.
569. Gatteschi D., Bogani L., Cornia A., Mannini M., Sorace L., Sessoli R. "Molecular magnetism, status and perspectives", *Solid State Sciences*, **2008**, *10*, 1701-1709.
570. Mannini M., Pineider F., Sainctavit P., Joly L., Fraile-Rodriguez A., Arrio M.A., Moulin C.C.D., Wernsdorfer W., Cornia A., Gatteschi D., Sessoli R. "X-Ray Magnetic Circular Dichroism Picks out Single-Molecule Magnets Suitable for Nanodevices", *Adv. Mater.*, **2009**, *21*, 167-171.
571. Sorace L., Sangregorio C., Figuerola A., Benelli C., Gatteschi D. "Magnetic Interactions and Magnetic Anisotropy in Exchange Coupled 4f-3d Systems: A Case Study of a Heterodinuclear Ce³⁺-Fe³⁺ Cyanide-Bridged Complex", *Chem. Eur. J.*, **2009**, *15*, 1377-1388.
572. Mannini M., Pineider F., Sainctavit P., Danieli C., Otero E., Sciancalepore C., Talarico A.M., Arrio M.A., Cornia A., Gatteschi D., Sessoli R. "Magnetic memory of a single-molecule quantum magnet wired to a gold surface", *Nat. Mat.*, **2009**, *8*, 194-197.
573. Mannini M., Pineider F., Sainctavit P., Moulin C.C.D., Arrio M.A., Cornia A., Gatteschi D., Sessoli R. "XMCD of a single layer of single molecule magnets", *Eur. Phys. J. - Special Topics*, **2009**, *169*, 167-173.
574. Fittipaldi M., Curri M.L., Comparelli R., Striccoli M., Agostiano A., Grassi N., Sangregorio C., Gatteschi D. "A Multifrequency EPR Study on Organic-Capped Anatase TiO₂ Nanocrystals", *J. Phys. Chem. C*, **2009**, *113*, 6221-6226.

575. Rajaraman G., Totti F., Bencini A., Caneschi A., Sessoli R., Gatteschi D. "Density functional studies on the exchange interaction of a dinuclear Gd(III)-Cu(II) complex: method assessment, magnetic coupling mechanism and magneto-structural correlations", Dalton T, **2009**, 17, 3153-3161.
576. Bernot K., Luzon J., Bogani L., Etienne M., Sangregorio C., Shanmugam M., Caneschi A., Sessoli R., Gatteschi D. "Magnetic Anisotropy of Dysprosium(III) in a Low-Symmetry Environment: A Theoretical and Experimental Investigation", J. Am. Chem. Soc, **2009**, 131, 5573-5579.
577. Gatteschi D., Cornia A., Mannini M., Sessoli R. "Organizing and Addressing Magnetic Molecules", Inorg. Chem., **2009**, 48, 3408-3419.
578. Bernot K., Luzon J., Caneschi A., Gatteschi D., Sessoli R., Bogani L., Vindigni A., Rettori A., Pini M.G. "Spin canting in a Dy-based single-chain magnet with dominant next-nearest-neighbor antiferromagnetic interactions", Phys. Rev. B, **2009**, 79, 134419.
579. Mugnaini V., Fabrizioli M., Ratera I., Mannini M., Caneschi A., Gatteschi D., Manassen Y., Veciana J. "Towards the detection of single polychlorotriphenylmethyl radical derivatives by means of Electron Spin Noise STM", Solid State Sciences, **2009**, 11, 956-960.
580. Margheriti L., Mannini M., Sorace L., Gorini L., Gatteschi D., Caneschi A., Chiappe D., Moroni R., de Mongeot F.B., Cornia A., Piras F.M., Magnani A., Sessoli R. "Thermal Deposition of Intact Tetrairon(III) Single-Molecule Magnets in High-Vacuum Conditions", Small, **2009**, 5, 1460-1466.
581. M. Fittipaldi, L. Sorace, A.-L. Barra, C. Sangregorio, R. Sessoli and D. Gatteschi "Molecular nanomagnets and magnetic nanoparticles: the EMR contribution to a common approach" Phys. Chem. Chem. Phys., **2009**, 11, 6555-6568
582. A.R. Albuñia, C. D'Aniello, G. Guerra, D. Gatteschi, M. Mannini, L. Sorace "Ordering Magnetic Molecules within Nanoporous Crystalline Polymers", Chem. Mat., **2009**, 21, 4750-4752