**George Christou Publications List Oct 1, 2022**

# Total papers: 623 peer-reviewed Average citations per paper: 43.36

**Total citations:** 34,861, excluding self-citations **h-index:** 100 (Google Scholar)

[**http://www.chem.ufl.edu/~christou/group/Publications-G.htm**](http://www.chem.ufl.edu/~christou/group/Publications-G.htm)

**(First paper of each year in blue)**

1. Biological Activity of Synthetic Tetranuclear Iron‑Sulphur Analogues of the Active Sites of Ferredoxins. M. W. W. Adams, S. G. Reeves, D. O. Hall, G. Christou, B. Ridge and H. N. Rydon, *Biochem. Biophys. Res. Commun.* **1977**, *79*, 1184‑1191.
2. Direct Formation of Peptide‑Analogues of Rubredoxins and Four‑Iron Ferredoxins from their Components. G. Christou, B. Ridge and H. N. Rydon, *J.C.S. Chem. Commun.* **1977**, 908‑909.
3. A Molybdenum Derivative of a Four‑Iron Ferredoxin‑type Centre. G. Christou, C. D. Garner and F. E. Mabbs, *Inorg. Chim. Acta.* **1978**, *28*, L189‑L190.
4. Crystal Structure of [NBu4]3[Fe6Mo2S8(SPh)9]; an Fe3MoS4 Cubic Cluster Dimer. G. Christou, C. D. Garner, F. E. Mabbs and T. J. King, *J.C.S. Chem. Commun.* **1978**, 740‑741.
5. [NBu4]2[Fe4Se4(SPh)4], an Iron‑Selenium Cubic Cluster Compound. G. Christou, B. Ridge and H. N. Rydon, *J.C.S. Dalton Trans.* **1978**, 1423‑1425.
6. Thiol Exchange Reactions of Iron‑Molybdenum‑Sulphur Clusters; Preparation and Crystal Structure of [NEt4]3[Fe6Mo2S8(SCH2CH2OH)9], a Water‑Soluble Iron‑Molybdenum‑Sulphur Cluster. G. Christou, C. D. Garner, F. E. Mabbs and M. G. B. Drew, *J.C.S. Chem. Commun.* **1979**, 91‑93.
7. The Conversion of *C. pasteurianum* Rubredoxin into a Four‑Iron Ferredoxin. G. Christou, B. Ridge and H. N. Rydon, *J.C.S. Chem. Commun.* **1979**, 20‑21.
8. Convenient Synthesis of [Fe4S4(SR)4]2‑ Clusters. Christou, G.; Garner, C.D. *J.C.S. Dalton Trans.* **1979**, 1093‑1094.
9. Isolation and Crystal Structure of [NEt4]3[Fe6Mo2S8(SEt)9]. S. R. Acott, G. Christou, F. E. Mabbs, T. J. King and C. D. Garner, *Inorg. Chim. Acta* **1979**, *35*, L337‑L338.
10. Isolation and Characterization by X‑ray Crystallography and Mössbauer Measurements of [NEt4]3[Fe6W2S8(SPh)6(OMe)3], an Iron‑Tungsten‑Sulphur Cubic Cluster Dimer. G. Christou, C. D. Garner, T. J. King, C. E. Johnson and J. D. Rush, *J.C.S. Chem. Commun.* **1979**, 503‑504.
11. Preparation and Crystal Structure of [NEt4]3[Fe6W2S8(SEt)9]; Structural and Electrochemical Comparisons with its Molybdenum Analogue. G. Christou, C. D. Garner, R. M. Miller and T. J. King, *J. Inorg. Biochem.* **1979**, *11*, 349‑353.
12. Characterization of Iron‑Sulphur Centres by EPR Spectroscopy; Comparison with Model Systems. R. Cammack and G. Christou in "Hydrogenases: Their Catalytic Activity, Structure and Function"; H. G. Schlegel and K. Schneider, Eds., E. Goltze, Gottingen, 1979, 45‑56.
13. Synthesis and Characterization of Iron‑Molybdenum‑Sulphur Clusters. C. D. Garner, G. Christou, S. R. Acott, F. E. Mabbs, R. M. Miller, T. J. King, M. G. B. Drew, C. E. Johnson, J. D. Rush and G. W. Kenner in "Molybdenum Chemistry of Biological Significance", W.E. Newton and S. Otsuka, Eds.; Plenum Press, New York, 1979, 203‑215.
14. Molybdenum‑Iron‑Sulphur Cluster Dimers. G. Christou, C. D. Garner, S. R. Acott, F. E. Mabbs, R. M. Miller, T. J. King, M. G. B. Drew, C. E. Johnson, J. D. Rush, and G. W. Kenner in "Proceedings of the 3rd International Conference on the Chemistry and Uses of Molybdenum", H. F. Barry and P. C. H. Mitchell, Eds.; Climax Molybdenum, 1979, 259‑263.
15. Ligand Substitution Reactions of Iron‑Molybdenum‑Sulphur Cubane‑like Cluster Dimers; Selective Halide Incorporation. G. Christou and C. D. Garner, *J.C.S. Chem. Commun.* **1980**, 613‑614.
16. Biological Activity of Synthetic Molybdenum‑Iron‑Sulphur, Iron‑Sulphur and Iron‑Selenium Analogues of Ferredoxin‑type Centres. M. W. W. Adams, K. K. Rao, D. O. Hall, G. Christou and C. D. Garner, *Biochim. Biophys. Acta* **1980**, *589*, 1‑9.
17. Synthesis and proton magnetic resonance properties of Fe3MoS4 and Fe3WS4  cubic cluster dimers. G. Christou and C. D. Garner, *J.C.S. Dalton Trans.* **1980**, 2354‑2362.
18. Mössbauer and electrochemical studies on Fe3MoS4 and Fe3WS4 cubane‑like cluster dimers. G. Christou, C. D. Garner, R. M. Miller, C. E. Johnson and J. D. Rush, *J.C.S. Dalton Trans.* **1980**, 2363‑2368.
19. Hydrogen evolution from homogeneous reaction solutions containing reduced molybdenum‑iron‑sulphur clusters. G. Christou, R. V. Hageman, and R. H. Holm, *J. Am. Chem. Soc.* **1980**, *102*, 7600‑7601.
20. Tetraethylammonium bis[persulphido‑μ-sulphido‑oxomolybdenum(V)]. W. Clegg, G. M. Sheldrick, C. D. Garner and G. Christou, *Acta Crystallog.* *B36*, **1980**, 2784‑2786.
21. Studies on Iron‑Molybdenum‑Sulfur Clusters. C. D. Garner, S. R. Acott, G. Christou, D. Collison, F. E. Mabbs, and R. M. Miller in "Current Perspectives in Nitrogen Fixation: Proceedings of the 4th International Symposium", A. H. Gibson and W. E. Newton, Eds.; Elsevier/North Holland Biomedical Press, Amsterdam, 1980, 40‑43.
22. Studies Relating to the Ferredoxins; Part 3. The Synthesis of some Cysteine‑Glycine Peptides for Iron‑Sulphur Complexing Studies. A. Balasubramaniam, R. J. Burt, G. Christou, B. Ridge and H. N. Rydon, *J.C.S. Perkin I* **1981**, 310‑317.
23. [Mo2S10]2‑; a complex with terminal‑, bridging‑, per‑, and tetra‑sulphido groups. W. Clegg, G. Christou, C. D. Garner and G. M. Sheldrick, *Inorg. Chem.* **1981**, *20*, 1562‑1566.
24. A Hexanuclear Fe‑S‑SR cluster. Assembly and Properties of [Fe6S9(S‑t‑Bu)2]4‑, Containing Three Types of Bridging Atoms. G. Christou, R. H. Holm, M. Sabat and J. A. Ibers, *J. Am. Chem. Soc.* **1981**, *103*, 6269‑6271.
25. Spin‑exchange Interactions in the Cubane‑like Cluster Dimers [NEt4]3[Fe6M2S8(SPh)6(OMe)3] (M = Mo or W). G. Christou, D. Collison, C. D. Garner and F. E. Mabbs, *Inorg. Nucl. Chem. Letts.* **1981**, *17*, 137‑ 140.
26. Crystal structure and 13C NMR spectrum of [NMe4]2[Fe4S4(SCH2CH2OH)4] and EPR spectrum of [Fe4S4(SCH2CH2OH)4]3‑ in aqueous solution. G. Christou, C. D. Garner, M. G. B. Drew and R. Cammack, *J.C.S. Dalton Trans.* **1981**, 1550‑1555.
27. Tetranuclear Iron‑Sulphur and Iron‑Selenium Clusters. G. Christou, C. D. Garner, A. Balasubramaniam, B. Ridge and H. N. Rydon, *Inorg. Syntheses* **1982**, *21*, 33‑37.
28. Electron transfer series of Mo‑Fe‑S double cubane clusters: electronic properties of components and the structure of [NEt4]5[Mo2Fe6S8(SPh)9]. G. Christou, P. K. Mascharak, W. H. Armstrong, G. C. Papaefthymiou, R. B. Frankel and R. H. Holm, *J. Am. Chem. Soc.* **1982**, *104*, 2820‑2831.
29. Synthesis and properties of [Co8S6(SPh)8]4‑, containing a [Co8S6]4+ rhombic dodecahedron related to that of cobalt pentlandite. G. Christou, K. S. Hagen and R. H. Holm, *J. Am. Chem. Soc.* **1982**, *104*, 1744‑1745.
30. A new structural type in Fe‑S‑SR chemistry; preparation and properties of [NMe3Bz1]4[Fe6S9(SBut)2]. G. Christou, M. Sabat, J. A. Ibers and R. H. Holm, *Inorg. Chem.* **1982**, *21*, 3518‑3526.
31. Magnetic moments and electron spin resonance spectra of some iron‑ sulphur‑molybdenum and ‑ tungsten cubane‑like cluster dimers. G. Christou, D. Collison, C. D. Garner, S. R. Acott, F. E. Mabbs and V. Petrouleas, *J.C.S. Dalton Trans.* **1982**, 1575‑1585.
32. Iron‑Molybdenum‑Sulfur Clusters. C. D. Garner, S. R. Acott, G. Christou, D. Collison, F. E. Mabbs and V. Petrouleas, *Philos. Trans. R. Soc. London, Ser. A*, 1982, 308, 159‑166.
33. The homogeneous hydrogen‑evolving systems [Mo2Fe6S8(SPh)9]4‑,5‑/PhSH: reaction characteristics, kinetics and possible mechanisms, T. Yamamura, G. Christou and R. H. Holm, *Inorg. Chem.* **1983**, *22*, 939‑949.
34. Trinuclear metal(II) ‑ sulphide ‑ thiolate complexes: synthesis, structures and properties of [M3S(1,2‑(SCH2)2-C6H4)]2‑ (M = Fe(II), Co(II). K. S. Hagen, G. Christou and R. H. Holm, *Inorg. Chem.* **1983**, *22*, 309‑314.
35. Preparation and structural characterization of [NEt4]2[Mn2(SCH2CH2S)4], a stable manganese(III) thiolate dimer. G. Christou and J. C. Huffman, *J.C.S. Chem. Commun.* **1983**, 558‑560.
36. Vanadium thiolate chemistry: preparation and structures of [NMe4]Na[VO(SCH2CH2S)2]·2EtOH and [Ph4P]2[V2(SCH2CH2S)4]. R.W. Wiggins, J.C. Huffman, G. Christou, *J.C.S. Chem. Commun.* **1983**, 1313‑1315.
37. Iron‑Molybdenum‑Sulfur Clusters, "Nitrogen Fixation; the Chemistry‑ Biochemistry‑Genetics Interface", A. Muller and W. E. Newton, Eds.; Plenum Press, New York, 1983, 245‑273.
38. Toward a Model of the Cofactor of Nitrogenase: Recent Developments in the Chemistry of Molybdenum‑Iron‑Sulfur (MoFe3S4) Cubane‑Type Clusters. R. H. Holm, W. H. Armstrong, G. Christou, P. K. Mascharak, Y. Mizobe, R. E. Palermo, and T. Yamamura in "Biomimetic Chemistry", Z.‑I. Yoshida, N. Ise, Eds.; Elsevier, New York, 1983, 79‑99.
39. Mononuclear, three‑coordinate metal thiolates: preparation and crystal structures of [NBun4] [Hg(SPh)3] and [NPrn4] [Pb(SPh)3], G. Christou, K. Folting and J. C. Huffman, *Polyhedron* **1984**, *3*, 1247‑1253.
40. The clusters [Co8S6(SPh)8]4‑,5‑: preparations, properties and structural relationship of near‑cubic Co8(μ4‑S)6 cores to the clusters in synthetic pentlandite. G. Christou, K. S. Hagen, J. K. Bashkin and R. H. Holm, *Inorg. Chem.* **1985**, *24*, 1010‑1018.
41. Preparation, structure and properties of [NEt4][Mn(edt)2(ImH)] (edt = ethane‑1,2‑dithiolate; ImH = imidazole), a mononuclear manganese(III) thiolate possessing a rare manganese(III) imidazole bond. J. L. Seela, J. C. Huffman and G. Christou, *J.C.S. Chem. Commun.* **1985**, 58‑60.
42. Vanadium(IV) thiolate chemistry: Preparation, structure and properties of [VE(SCH2CH2S)2]2‑ (E = O, S), J. K. Money, J. C. Huffman and G. Christou, *Inorg. Chem.* **1985**, *24*, 3297‑3302.
43. Manganese(III) thiolate chemistry: new structural types including the first mixed‑valence metal thiolate. J. L. Seela, K. Folting, R‑J. Wang, J. C. Huffman, G. Christou, H.‑R. Chang and D. N. Hendrickson, *Inorg. Chem.* **1985**, *24*, 4454‑4456.
44. Synthesis and structure of (PPh4)2Na[Cr3(SCH2CH2O)6] containing a linear chromium(III) trimer with terminal thiolate and bridging alkoxide linkages. J. R. Nicholson, R‑J. Wang, J. C. Huffman, G. Christou, H‑R. Chang and D. N. Hendrickson, *J.C.S. Chem. Commun.* **1985**, 1781‑1783.
45. Use of (NBun4)[MnO4] for inorganic syntheses in non‑aqueous solvents. The preparation of a manganese(III) dimer containing bridging phenoxo‑oxygen atoms. J. B. Vincent, J. C. Huffman, and G. Christou, *Inorg. Chem.* **1986**, *25*, 996‑999.
46. A Synthetic Model Approach to the Manganese(III) Acid Phosphatase and its Iron(III) Substituted Form. J. S. Bashkin, J. C. Huffman and G. Christou, *J. Am. Chem. Soc.*, **1986**, *108*, 5038‑5039.
47. Isolation and structure of [V(OSiMe3)(edt)2]‑, an intermediate in the conversion of [VO(edt)2]‑ to [VS(edt)2]2‑ with (Me3Si)2S. EPR characterization of the series [VE(LL)2]2‑ (E = O, S, OSiMe3, LL = edt; E = O, LL = pdt). J. K. Money, K. Folting, J. C. Huffman, D. Collison, J. Temperley, F. E. Mabbs and G. Christou, *Inorg. Chem.* **1986**, *25*, 4583‑4589.
48. Discrete Metal‑Sulfide‑Thiolate Complexes of an Early 3d Transition Metal. J. K. Money, J. R. Nicholson, J. C. Huffman and G. Christou, *Inorg. Chem.*, **1986**, *25*, 4072‑4074.
49. Model complexes suggest certain S‑state changes of the photosynthetic water oxidation enzyme may involve MnII/MnIII transitions. Vincent, J.B.; Christou, G. *FEBS Lett.*, **1986**, *207*, 250‑252.
50. A Manganese(IV) Complex with Phenoxide‑ and Carboxylate‑like Ligation: Preparation and Structure of [Mn(sal)2(bipyl)](H2sal = Salicylic Acid; bipy = 2,2′‑Bipyridine). P. S. Pavacik, J. C. Huffman and G. Christou, *J.C.S. Chem. Comm.* **1986**, 43‑44.
51. Preparation and Structure of (NEt4)2[V4S2(SCH2CH2S)6], and its structural and electronic relationship to the LixVS2 phases. J. K. Money, J. C. Huffman and G. Christou, *J. Amer. Chem. Soc.*, **1987**, *109*, 2210‑2211.
52. The Synthesis, Structure and Spectroscopic Properties of the di‑ and trinuclear Ni(II)‑thiolate complexes, (PPh4)2[Ni2(SCH2CH2S)3] and (PPh4)2[Ni3(SCH2CH2S)4]. J. R. Nicholson, G. Christou, J. C. Huffman and K. Folting, *Polyhedron*, **1987**, *6*, 863‑870.
53. Preparation and physical properties of trinuclear oxo‑centered manganese complexes of general formulation [Mn3O(O2CR)6L3]0,+ (R = Me or Ph; L = a neutral donor group), and the crystal structures of [Mn3O(O2CMe)6(pyr)3](pyr) and Mn3O(O2CPh)6(pyr)2(H2O)] 0.5MeCN. J. B. Vincent, H.‑R. Chang, K. Folting, J. C. Huffman, G. Christou and D. N. Hendrickson, *J. Amer. Chem. Soc.*, **1987**, *109,* 5703‑5711.
54. Synthesis of Tetranuclear Manganese Complexes as Models of the Photosynthetic Water Oxidation Site. G. Christou, J. B. Vincent, J.S. Bashkin, C. Christmas, J. C. Huffman, *Rec. Trav. Chim. Pays‑Bas*, **1987**, *106*, 217.
55. Modelling the Photosynthetic Water Oxidation Centre: Synthesis, Structure and Magnetic Properties of [Mn4O2(OAc)7(bipy)2](ClO4)·3H2O. J. B. Vincent, C. Christmas, J. C. Huffman, G. Christou, H.‑R. Chang and D. N. Hendrickson, *J.C.S. Chem. Comm.*, **1987**, 236‑238.
56. A Molecular "Double‑Pivot" Mechanism for Water Oxidation. J. B. Vincent and G. Christou, *Inorg. Chim. Acta*, **1987**, *136*, L41‑L44.
57. A Binuclear Vanadium(III) Complex Containing the Linear [VOV]4+ unit: Preparation, Structure and Properties of [V2O(SCH2CH2NMe2)4]. J. K. Money, K. Folting, J. C. Huffman and G. Christou, *Inorg. Chem.*, **1987**, *26*, 944‑948.
58. The First Example of a Niobium‑Sulphide‑Thiolate Cluster. Metal‑Metal Bonding and μ4‑Sulphide Groups in Tetranuclear [Nb4S2(SPh)12]4‑. J. L. Seela, J. C. Huffman and G. Christou, *J.C.S. Chem. Commun.* **1987**, 1258‑1260.
59. Direct Synthesis of VE2+ (E = S, Se) Complexes using Elemental Chalcogens. The Preparation, Structure and Properties of [VS(SPh)4]2‑ and [VSe(edt)2]2‑ (edt2‑ = ethane‑1,2‑dithiolate). J. R. Nicholson, J. C. Huffman, D. Ho and G. Christou, *Inorg. Chem.*, **1987**, *26*, 3030‑3034.
60. Support from Model Studies for the Proposed Existence of an S‑1 Oxidation Level in the Manganese Assembly of the Photosynthetic Water Oxidation Center. C. Christmas, J. B. Vincent, J. C. Huffman, G. Christou, H.‑R. Chang and D. N. Hendrickson, *J.C.S. Chem. Commun.*, **1987**, 1303‑1305.
61. Modelling the Photosynthetic Water Oxidation Center. Preparation and Physical Properties of a Tetranuclear Oxide‑Bridged Mn Complex Corresponding to the Native S2 State. J. S. Bashkin, W. E. Streib, J. C. Huffman, H.‑R. Chang, D. N. Hendrickson and G. Christou, *J. Am. Chem. Soc.*, **1987**, *109*, 6502‑6504.
62. Salicylate‑Mediated Assembly of the Discrete Mixed‑Valence Nonanuclear Complex Mn9O4(O2CPh)8(sal)4(salH)2(pyr)4 (salH2 = salicylic acid, pyr = pyridine). C. Christmas, J. B. Vincent, J. C. Huffman, G. Christou, H.‑ R. Chang and D. N. Hendrickson, *Angew. Chem. Int. Ed. Engl.*, **1987**, *26,* 915‑916.
63. Crystal and Molecular Structure of (PPh4)2[VO(mnt)2] (1). Single Crystal Electron Spin Resonance of 1 as a Pure Compound and Diluted in the Isomorphous Molybdenum(IV) Compound. D. Collison, F. E. Mabbs, J. Temperley, G. Christou and J. C. Huffman, *J.C.S. Dalton Trans.*, **1988**, 309‑315.
64. Metal‑Sulfide‑Thiolate Chemistry for an Early 3d Transition Metal: Variation of Product as a Function of V:S Reaction Ratio, and the Structure and Redox Properties of Discrete V/S/edt Complexes. J. K. Money, J. C. Huffman and G. Christou, *Inorg. Chem.*, **1988**, *27*, 507‑514.
65. A Nonanuclear Oxide‑Bridged Manganese Complex. The Preparation, Structure and Magnetic Properties of Mn9O4(O2CPh)8(sal)4(salH)2(pyr)4 (salH2 = salicylic acid, pyr = pyridine). C. Christmas, J. B. Vincent, H.‑R. Chang, J. C. Huffman, G. Christou, and D. N. Hendrickson, *J. Am. Chem. Soc.*, **1988**, *110*, 823‑830.
66. Structural Types in Oxide‑Bridged Manganese Chemistry: Towards a Model of the Photosynthetic Water Oxidation Center. G. Christou and J. B. Vincent, *Metal Clusters in Proteins*, *ACS Symp. Ser. 372*; Que, L., Ed.; Amer. Chem. Soc., 1988, Chapter 12, 238‑255.
67. Potential Building Blocks for Molecular Ferromagnets: Mn12O12(O2CPh)16­(H2O)4 with a S = 14 Ground State. P. D. W. Boyd, Q. Li, J. B. Vincent, K. Folting, H.‑R. Chang, W. E. Streib, J. C. Huffman, G. Christou, and D. N. Hendrickson, *J. Am. Chem. Soc.*, **1988**, *110*, 8537.
68. Mixed Valence Manganese(II,III) and (III,IV) Dinuclear Complexes: Preparation, Structure, Magnetochemistry and EPR Spectra of Mn2(biphen)2(biphenH)(bipy)2 and Mn2O2Cl2(OAc)(bipy)2. J. S. Bashkin, A. R. Schake, J. B. Vincent, H.‑R. Chang, Q. Li, J. C. Huffman, G. Christou and D. N. Hendrickson, *J.C.S. Chem. Commun.*, **1988**, 700.
69. A Distorted Cubane Mn3IIIMnIV Complex with Imposed C3 Symmetry and a S=9/2 Ground State: The Structure, Magnetochemistry and Biological Relevance of Mn4O3Cl4(OAc)3(py)3. Q. Li, J. B. Vincent, E. Libby, H.‑R. Chang, J. C. Huffman, P. D. W. Boyd, G. Christou and D. N. Hendrickson, *Angew. Chem. Int. Ed. Engl.*, **1988**, *27*, 1731-1733.
70. The Molecular "Double‑Pivot" Mechanism for Water Oxidation. J. B. Vincent and G. Christou, *Biochim. Biophys. Acta*, **1988**, *895*, 259-274.
71. Carbon‑Hydrogen Activation Chemistry: Hydroxylation of C2, C3 and cyclo‑ C6Hydrocarbons by Manganese Cluster Catalysts with a Mono‑oxygen Transfer Reagent. R. H. Fish, R. H. Fong, J. B. Vincent and G. Christou, *J.C.S. Chem. Commun.*, **1988**, 1504-1506.
72. Modeling the Dinuclear Sites of Iron Biomolecules: Synthesis and Properties of Fe2O(OAc)2Cl2(bipy)2 and its use as an Alkane Activation Catalyst. J. B. Vincent, J. C. Huffman, G. Christou, Q. Li, M. A. Nanny, D. N. Hendrickson, R. H. Fong and R. H. Fish, *J. Am. Chem. Soc.* **1988**, *110*, 6898‑6900.
73. Dinuclear Manganese‑Oxide Complexes as Models for Manganese Catalase. J. B. Vincent, K. Folting, J. C. Huffman, and G. Christou, *Biochem. Soc. Trans.* **1988**, *16*, 822-823.
74. Modelling the Photosynthetic Water Oxidation Center. Preparation and Properties of Tetranuclear Manganese Complexes Containing [Mn4O2]6+,7+,8+ Cores, and the Crystal Structures of Mn4O2(O2CMe)6(bipy)2 and [Mn4O2(O2CMe)7(bipy)2](ClO4). J. B. Vincent, C. Christmas, H.‑R. Chang, Q. Li, P. D. W. Boyd, J. C. Huffman, D. N. Hendrickson and G. Christou, *J. Am. Chem. Soc.*, **1989**, *111*, 2086-2097.
75. Preparation, Structure and Magnetochemistry of Hexanuclear Manganese‑Oxide Complexes: Chemically and Thermally Induced Aggregation of Mn3O(O2CPh)6(py)2(H2O) Forming Products Containing the [Mn6O2]10+ Core. A. R. Schake, J. B. Vincent, Q. Li, P.D.W. Boyd, K. Folting, J.C. Huffman, D.N. Hendrickson and G. Christou, *Inorg. Chem.*, **1989**, *28*, 1915-1923.
76. Hydroxylation of C2, C3, and Cyclo‑C6 Hydrocarbons by Manganese Porphyrin and Nonporphyrin Catalysts. R. H. Fish, R. H. Fong, R. T. Price, J. B. Vincent, and G. Christou, "Biocatalysis and Biomimetics", *ACS Symp. Ser. 392*; Burrington, J. D.; Clark, D. S, Eds.; American Chemical Society, 1989, Chapter 9, 116‑122.
77. Recent Developments in Vanadium Sulphur and Oxygen Chemistry. G. Christou, D. Heinrich, J. K. Money, J. R. Rambo, J. C. Huffman and K. Folting, *Polyhedron* **1989**, *8*, 1723‑1727.
78. Preparation and Reactions of Niobium(V) Sulphide Complexes. J. L. Seela; J. C. Huffman and G. Christou, *Polyhedron* **1989**, *8*, 1797‑1799.
79. Manganese Carboxylate Chemistry and Its Biological Relevance. G. Christou, *Acc. Chem. Res.* **1989**, *22*, 328‑335.
80. Higher Oxidation State Manganese Biomolecules. J. B. Vincent and G. Christou, *Adv*. *Inorg. Chem*. **1989**, *33*, 197‑257.
81. Highly Cooperative Valence Detrapping of Mixed‑Valence [Mn3O(O2CCH3)6(py)3] (py) in the Solid State. H. G. Jang, J. B. Vincent, M. Nakano, J. C. Huffman, G. Christou, M. Sorai, R. J. Wittebort and D. N. Hendrickson, *J. Am. Chem. Soc.* **1989**, *111*, 7778‑7784.
82. A Novel Coordination Mode for Oxygen: Preparation and Properties of (NBun4)2[V4O(edt)2Cl8] Containing a Square‑Planar Oxide Bridge. J. R. Rambo, J. C. Huffman, G. Christou, and O. Eisenstein, *J. Am. Chem. Soc.* **1989**, *111*, 8027‑8029.
83. Crystal Structure and Magnetic Susceptibility of the Dinuclear Manganese(IV) Complex Mn2O2(pic)4·MeCN (picH = Picolinic Acid). E. Libby, R. J. Webb, W. E. Streib, K. Folting, J. C. Huffman, D. N. Hendrickson and G. Christou, *Inorg. Chem*. **1989**, *28*, 4037‑4040.
84. Synthesis of Tetranuclear and Pentanuclear Vanadium‑Oxide‑Carboxylate Aggregates. D. D. Heinrich, K. Folting, W. E. Streib, J. C. Huffman and G. Christou, *J.C.S. Chem. Commun.* **1989**, 1411‑1413.
85. Heat Capacity Study of the Abrupt Valence‑Detrapping Phase Transition of Mixed‑Valence [Mn3O(O2CCH3)6(py)3]·py. M. Nakano, M. Sorai, J.B. Vincent; G. Christou; H. G. Jang and D.N. Hendrickson, *Inorg. Chem.* **1989**, *28*, 4608-4614.
86. A New Class of Bipyridine‑Ligated Metal Carboxylate Complexes: Characterization of the Triply‑Bridged Ferromagnetically‑Coupled Complexes [Cu2(OAc)3(bpy)2](ClO4) and [Cu2(OH)(H2O)(OAc)(bpy)2](ClO4)2. G. Christou; S.P. Perlepes; K. Folting; J.C. Huffman; R. J. Webb and D. N. Hendrickson, *J.C.S. Chem. Commun.* **1990**, 746‑747.
87. Feasibility of a "Building‑Block" Approach to Higher Nuclearity Mn/O/RCO2‑ Aggregates: Directed Conversion of an [Mn4O2] to an [Mn8O4] Complex. E. Libby; K. Folting; J. C. Huffman and G. Christou, *J. Am. Chem. Soc.* **1990**, *112*, 5354‑5356.
88. Preparation and Properties of the Triply Bridged, Ferromagnetically Coupled Dinuclear Copper(II) Complexes [Cu2(OAc)3(bpy)2](ClO4) and [Cu2(OH)(H2O)(OAc)(bpy)2](ClO4)2. G. Christou, S. P. Perlepes, E. Libby, K. Folting, J. C. Huffman, R. J. Webb, and D. N. Hendrickson, *Inorg. Chem.* **1990**, *29*, 3657‑3666.
89. Molecular Spin Frustration in the [Fe4O2]8+ Core: Synthesis, Structure, and Magnetochemistry of [Fe4O2(O2CR)7(bpy)2](ClO4) (R = Me, Ph). J. K. McCusker; J. B. Vincent; E. A. Schmitt; M. L. Mino; K. Shin; D. K. Coggin; P. M. Hagen; J. C. Huffman; G. Christou and D. N. Hendrickson, *J. Am. Chem. Soc.* **1991**, *113*, 3012‑3021.
90. Chloride‑Induced Conversion of [Mn4O2(OAc)6(py)2(dbm)2] to [Mn4O3Cl(OAc)3(dbm)3]: Potential Relevance to Photosynthetic Water Oxidation. S. Wang; K. Folting; W. E. Streib; E. A. Schmitt; J. K. McCusker; D. N. Hendrickson and G. Christou, *Angew. Chem. Int. Ed. Engl.* **1991**, *30*, 305‑306.
91. Complete Carboxylate Removal from Mn12O12(OAc)16(H2O)4·4H2O with Me3SiCl: Synthesis and Characterization of Polymeric [MnCl3(bpy)]n and an Improved Synthesis of (NEt4)2MnCl5. S. P. Perlepes; A. G. Blackman; J. C. Huffman and G. Christou, *Inorg. Chem*. **1991**, *30*, 1665‑1668.
92. Binding of 2,2′‑Bipyridine to the Dirhodium(II) Tetraacetate Core: Unusual Structural Features and Biological Relevance of the Product Rh2(OAc)4(bpy). S. P. Perlepes, J. C. Huffman, J. H. Matonic, K. R. Dunbar, and G. Christou, *J. Am. Chem. Soc.* **1991**, *113*, 2770‑2771.
93. Preparation and Properties of Mononuclear Vanadium Thiolates: Structural Characterization of the [V(SBut)4]0,‑ Pair and C‑S Bond Cleavage in V(SBut)4 in the Gas Phase. D. D. Heinrich; K. Folting; J. C. Huffman; J. G. Reynolds and G. Christou, *Inorg. Chem*. **1991**, *30*, 300‑305.
94. Preparation and Properties of Models for the Photosynthetic Water Oxidation Center: Spin Frustration in the [Mn4O2(O2CR)7(pic)2]- Anion. E. Libby; J. K. McCusker; E.D.A. Schmitt; K. Folting; D.N. Hendrickson and G. Christou, *Inorg. Chem.* **1991**, *30*, 3486-3495.
95. Mixed Valence Manganese Carboxylates of Various Nuclearities. G. Christou, *Mixed Valency Systesm: Applications in Chemistry, Physics and Biology*, **1991**, Kluwer Academic Publishers: The Netherlands, pp. 371-376.
96. Preparation and Properties of Mononuclear and Ferromagnetically Coupled Dinuclear Manganese Complexes with 2,2′-Biphenoxide. A.R. Schake; E.A. Schmitt; A.J. Conti; W. E. Streib; J.C. Huffman; D.N. Hendrickson and G. Christou, *Inorg. Chem.* **1991**, *30*, 3192-3199.
97. Towards Functional Models of the Photosynthetic Water Oxidation Centre: Synthesis and Structure of the Asymmetric Complex [Mn2O(O2CMe)2(bpy)2(H2O)(S2O8)]·H2O (bpy = 2,2′-bipyridine), containing Coordinated H2O and S2O82-. A. G. Blackman, J. C. Huffman, E. B. Lobkovsky, and G. Christou, *J.C.S. Chem. Commun.* **1991**, 989-991.
98. Biomimetic Oxidation Studies. 5. Mechanistic Aspects of Alkane Functionalization with Fe, Fe2O, and Fe4O2 Complexes in the Presence of Hydrogen Peroxide. R. H. Fish, M. S. Konings, K. J. Oberhausen, R. H. Fong, W. M. Yu, G. Christou, J. B. Vincent, D. K. Coggin, and R. M. Buchanan, *Inorg. Chem.* **1991**, *30*, 3002-3006.
99. Ligand Field Strengths and Oxidation States from Manganese L-Edge Spectroscopy. S. P. Cramer, F. M. F. deGroot, Y. Ma, C. T. Chen, F. Sette, C. A. Kipke, D. M. Eichhorn, M. K Chan, W. H. Armstrong, E. Libby, G. Christou, S. Brooker, V. McKee, O. C. Mullins and J. C. Fuggle, *J. Am. Chem. Soc.* **1991**, *113*, 7937-7940.
100. Isomerism in the Mo2(μ-O2CCF3)4/bpy Reaction System: Thermal and Photochemical Conversion of the Ion-Pair Complex [Mo2(μ-O2CCF3)2(bpy)2(O2CCF3)2 to the Unbridged Neutral Isomer Mo2(η1-O2CCF3)4(bpy)2. John H. Matonic, Sue-Jane Chen, Spiros P. Perlepes, Kim R. Dunbar, and George Christou, *J. Am. Chem. Soc.* **1991**, *113*, 8169-8171.
101. Deoxygenation of Oxovanadium(IV) Complexes Under Mild Conditions: Synthesis and Structural Characterization of c*is*-dihalobis(dialkyldithiocarbamato)-vanadium(IV). E. L. Jones, J. G. Reynolds, J. C. Huffman, and G. Christou, *Polyhedron* **1991**, *10*, 1817-1825.
102. A Linear Trinuclear Chromium(III) Complex with Mixed Thiolate/Alkoxide Ligation: Preparation and Properties of (PPh4)2Na[Cr3(SCH2CH2O)6]. J. R. Nicholson and G. Christou, *Polyhedron* **1991**, *10*, 2255-2263.
103. Preparation and Characterization of Triply-Bridged Dinuclear Copper(II) Complexes Containing the [Cu2(μ-OH)(μ-X)(μ-OAc)]+ Core (X = Cl, Br), and the Crystal Structure of [Cu2(OH)Cl(OAc)(bpy)2](ClO4)·H2O. S. P. Perlepes, J. C. Huffman and G. Christou, *Polyhedron* **1991**, *10*, 2301-2308.
104. Preparation and Characterization of [Mn11O10Cl2(OAc)11(bpy)2(MeCN)2(H2O)2](ClO4)2·8MeCN, a Mixed-Valence Manganese (III/IV) Aggregate with Rare Undecanuclearity. S. P. Perlepes, J. C. Huffman, and G. Christou, *J. Chem. Soc., Chem. Comm.* **1991**, *23*, 1657-1659.
105. (NBu4)[Mn4O2(H2O)(O2CPh)9], a Butterfly Complex with Bound H2O, and Its Use to Prepare Octanuclear and Undecanuclear Metal Complexes. Sheyi Wang, John C. Huffman, Kirsten Folting, William E. Streib, Emil B. Lobkovsky, and George Christou, *Angew. Chem. Int. Ed. Engl.* **1991**, *30*, 1672-1674.
106. Synthesis and Structure of [Mn6O2(O2CPh)10(EtOH)4(H2O)]·EtOH, a Manganese Aggregate Containing Three Types of Benzoate Ligation. Isomerism in [Mn6O2(O2CPh)10] Complexes. A. G. Blackman, J. C. Huffman, E. B. Lobkovsky and G. Christou, *Polyhedron* **1992**, *11*, 251-155.
107. Variation in the Electron Count and Ground State of [Mn12O12(O2CR)16(H2O)4] (R = Me or Ph) by Metal Substitution and Redox Changes: Preparation and Properties of [Mn8Fe4O12(O2CMe)16(H2O)4]·4H2O·-2MeCO2H and [NPrn4][Mn12O12(O2CPh)16(H2O)4]·H2O. A. R. Schake, H.-L. Tsai, N. de Vries, R. J. Webb, K. Folting, D. N. Hendrickson and G. Christou, *J. Chem. Soc., Chem. Commun.* **1992**, 181-183.
108. Photosynthetic Water Oxidation Center: Spin Frustration in Distorted Cubane MnIVMnIII3 Model Complexes. David N. Hendrickson, George Christou, Edward A. Schmitt, Eduardo Libby, John S. Bashkin, Sheyi Wang, Hui-Lien Tsai, John B. Vincent, Peter D. W. Boyd, John C. Huffman, Kirsten Folting, Qiaoying Li, and William E. Streib, *J. Am. Chem. Soc.* **1992**, *114*, 2455-2471.
109. Ground-State Variability in μ3-Oxide Trinuclear Mixed-Valence Manganese Complexes: Spin Frustration. James K. McCusker, Ho. G. Jang, Sheyi Wang, George Christou, and David N. Hendrickson, *Inorg. Chem.* **1992**, *31*, 1874-1880.
110. The Reactions of Cu2(O2CMe)4(H2O)2 with 2,2′-bipyridine (bpy): Influence of the Cu:bpy Ratio, and the Structure of a Linear Polymer Comprising Two Alternating Types of Cu2 Units. S.P. Perlepes; E. Libby; W.E. Streib; K. Folting and G. Christou, *Polyhedron* **1992**, *11*, 923-936.
111. Preparation and Characterization of Dinuclear Copper(II) Complexes Containing the [Cu2(μ-OAc)2]2+ Core. S.P. Perlepes, J.C. Huffman and G. Christou, *Polyhedron*  **1992**, *11*, 1471-1479.
112. High Nuclearity Molecular Species Exhibiting Spin Frustration: Fusion of Two MnIII4O2 Butterfly Complexes to yield an Intermediate Spin Ground State MnIII7O4 Complex. S. Wang, H.-L. Tsai, W. E. Streib, G. Christou and D. N. Hendrickson, *J., Chem. Soc., Chem. Commun.* **1992**, 677-679.
113. Biomimetic Oxidation Studies, 6: Synthetic and Mechanistic Aspects of Manganese Cluster Mediated Alkane Functionalization Reactions. R. H. Fish, R. H. Fong, K. J. Oberhausen, M. S. Konings, M. C. Vega, R.t M. Buchanan, J. B. Vincent, and G. Christou, *New J. Chem.* **1992**, *16*, 727-733.
114. Pyridine-2-thiolato Complexes of Vanadium in Oxidation States II, III, IV with Unusual Structural Features. J. G. Reynolds, S. C. Sendlinger, A. M. Murray, J. C. Huffman, and G. Christou, *Angew. Chem. Int. Ed. Engl.* **1992**, *31*, 253-255.
115. Bromide Incorporation into a High-oxidation-state Manganese Aggregate, and Reversible Redox Processes for the [Mn4O3X(OAc)3(dbm)3] (X = Cl, Br) Complexes. Sheyi Wang, Hui-Lien Tsai, William E. Streib, George Christou, and David N. Hendrickson, *J. Chem. Soc., Chem. Commun.* **1992**, 1427-1429.
116. Tetranuclear Manganese(III)-Oxo-Carboxylate Complexes Possessing Terminal Phenoxide or Alkoxide Ligands. Elisabeth Bouwman, Milissa A. Bolcar, Eduardo Libby, John C. Huffman, Kirsten Folting, and George Christou, *Inorg. Chem.*, **1992**, *31*, 5185-5192.
117. A New Fluorinated Tetra-alkoxide Ligand Derived from the Hydration of Hexafluoroacetylacetone. Elisabeth Bouwman, John C. Huffman, Emil B. Lobkovsky, George Christou, Hui-Lien Tsai, and D. N. Hendrickson, *Inorg. Chem.* **1992**, *31*, 4436-4438.
118. Reactivity Studies of Mononuclear and Dinuclear Vanadium-Sulfide-Thiolate Compounds. S. C. Sendlinger, J. R. Nicholson, E. B. Lobkovsky, J. C. Huffman, D. Rehder, and G. Christou, *Inorg. Chem.*, **1993**, *32*, 204-210.
119. New Structural Types in Vanadium Chemistry; Vanadium(III) Complexes Containing the [V3(μ3-S)(μ-S2)3]+ and [V2(μ-O)(μ-SPh)2]2+ Cores. Norman S. Dean, Kirsten Folting, Emil B. Lobkovsky, and George Christou, *Angew. Chem. Int. Ed. Engl.* **1993**, *32*, 594-596.
120. High-Spin Molecules: [Mn12O12(O2CR)16(H2O)4]. Sessoli, R.; Tsai, H.-L.; Schake, A.R.; Wang, S.; Vincent, J.B.; Folting, K.; Gatteschi, D.; Christou, G.; Hendrickson, D.N., *J. Am. Chem. Soc.* **1993**, *115*, 1804-1816.
121. Controlled Aggregation and De-aggregation of a Polynuclear Oxido-Bridged Manganese Complex: Utility to Synthesis of the Jahn-Teller Effect in High-Spin MnIII. Eduardo Libby, Kirsten Folting, Carolyn J. Huffman, John C. Huffman, and George Christou, *Inorg. Chem.* **1993**, *32*, 2549-2556.
122. Deoxygenation of Oxovanadium(IV) Complexes Under Mild Conditions: Conversion of Vanadyl Species to the Corresponding Dihalides with Carboxylic Acid Halides. J. G. Reynolds, E. L. Jones, J. C. Huffman, and G. Christou, *Polyhedron* **1993**, *12*, 407-414.
123. Distorted Cubane [Mn4O3Cl]6+ Complexes with Arenecarboxylate Ligation: Crystallographic, Magnetochemical and Spectroscopic Characterization. Wemple, M.W.; Tsai, H.-L.; Folting, K.; Hendrickson, D.N.; and Christou, G., *Inorg. Chem.* **1993**, *32*, 2025-2031.
124. Reaction of 2, 2′-Bipyridine (bpy) with Dirhodium Tetracarboxylates: Mono-bpy Products with Variable Chelate Binding Modes, and Insights into the Reaction Mechanism. C. A. Crawford, J. H. Matonic, W. E. Streib, J. C. Huffman, K. R. Dunbar, and G. Christou, *Inorg. Chem.* **1993**, *32*, 3125-3133.
125. Doubly-Hydrated Hexafluoroacetylacetone as a Tetradentate Ligand: Synthesis, Magnetochemistry and Thermal Transformations of a MnIII2 Complex. E. Bouwman, K. G. Caulton, G. Christou, K. Folting, C. Gasser, D. N. Hendrickson, J. C. Huffman, E. B. Lobkovsky, J.D. Martin, P. Michel, H.-L. Tsai, and Z. Xue, *Inorg. Chem.* **1993**, *32*, 3463-3470.
126. “Dimerization” of the [Co2III(OH)2] Core to the First Example of a [CoIII4O4] Cubane: Potential Insights into Photosynthetic Water Oxidation. K. Dimitrou, K. Folting, W. E. Streib, G. Christou, *J. Am. Chem. Soc.* **1993**, *115*, 6432-6433.
127. A New Vanadium(V) Persulfide Complex: (NEt4)[VO(S2)2(bpy)]. S. L. Castro, J. D. Martin, and G. Christou, *Inorg. Chem.* **1993**, *32*, 2978-2980.
128. (NEt4)2[V6O2S4(edt)6]: a Model for the Adsorption of Naked [VO]2+ Units on Vanadium Sulphide Surfaces. K. A. York, K. Folting, and G. Christou, *J. Chem. Soc., Chem. Commun.* **1993**, 1563-1564.
129. Models of the Manganese Catalase Enzymes. Dinuclear Manganese(III) Complexes with the [Mn2(μ-O)(μ-O2CR)2]2+ Core and Terminal Monodentate Ligands: Preparation and Properties of [Mn2O(O2CR)2X2(bpy)2] (X = Cl‑, N3‑, H2O). J. B. Vincent, H.-L. Tsai, A. G. Blackman, S. Wang, P. D. W. Boyd, K. Folting, J. C. Huffman, E. B. Lobkovsky, D. N. Hendrickson, and G. Christou, *J. Am. Chem. Soc.* **1993**, *115*, 12353-12361.
130. High-Spin Molecules: Iron(III) Incorporation into Mn12O12(O12CMe)16(H2O)4 to Yield Mn8Fe4O12(O2CMe)16(H2O)4, and its Influence on the S = 10 Ground State of the Former. A. R. Schake, H.-L. Tsai, R. J. Webb, K. Folting, D. N. Hendrickson, and G. Christou, *Inorg. Chem.* **1994**, *33*, 6020-6028.
131. One-Dimensional Polymerization of M2(OAc)4 (M = Cu, Rh) Units Using 2-(Aminomethyl)pyridine: Preparation and Characterization of [Rh2(OAc)4(amp)]n and [Cu4(OAc)8(amp)2]n. C. A. Crawford, E. F. Day, W. E. Streib, J. C. Huffman, and G. Christou, *Polyhedron* **1994**, *13*, 2933-2943.
132. Covalent Linkage of Mn4O2(O2CPh)6(dbm)2 into a Dimer and a One-Dimensional Polymer. S. Wang, H.-L. Tsai, K. Folting, J. D. Martin, D. N. Hendrickson, and G. Christou, *J. Chem. Soc., Chem. Commun.* **1994**, 671-673.
133. High Spin Molecules: (NBun4)2[Mn8O4(O2CPh)12(Et2mal)2(H2O)2], a Mixed-Valence Manganese(II/III) Aggregate with Dicarboxylate Ligation and an Unusual Linked-Butterfly Structure. M. W. Wemple, H.-L. Tsai, W. E. Streib, D. N. Hendrickson, and G. Christou, *J. Chem. Soc., Chem. Commun.* **1994**, 1031-1033.
134. Superparamagnetic-Like Properties of the Valence-Trapped MnIIMnIII7MnIV4 Anion in (PPh4)[Mn12O12(O2CEt)16(H2O)4]. H.‑L. Tsai, D. N. Hendrickson, H. J. Eppley, N. de Vries, K. Folting and G. Christou, *J. Chem. Soc., Chem. Commun.* **1994**, 1745-1746.
135. Structural Evidence for a New Metal-Binding Mode for Guanine Bases: Implications for the Binding of Dinuclear Antitumor Agents to DNA. K. R. Dunbar, J, H. Matonic, V, P. Saharan, C. A. Crawford and G. Christou, *J. Am. Chem. Soc.* **1994**, *116*, 2201-2202
136. Lewis Basicity of the [Co4O4]4+ Cubane Core: Preparation of a Mixed-Valence (4CoII,4CoIII) Cluster with an Unusual [Co8(μ4-O)4]12+ Core, and New [Co4O3(OH)]5+ and [Co4O2(OH)2]6+ Cubane Complexes. K. Dimitrou, K. Folting, W. E. Streib, and G. Christou, *J. Chem. Soc., Chem. Commun.* **1994**, 1385-1386.
137. Preparation, Crystal Structure and Magnetochemistry of (NEt4)[V2Cl7(THF)2]·CH2Cl2. J. R. Rambo, S. L. Bartley, W. E. Streib, and G. Christou, *J. Chem. Soc., Dalton Trans.* **1994**, 1813-1817.
138. Synthesis, Characterization and Molecular Structure of the S2O Complex Mo(S2O)(S2CNEt2)3. M. A. Halcrow, J. C. Huffman and G. Christou, *Inorg. Chem.* **1994**, *33*, 3639-3644.
139. A New Structural Type in Manganese Carboxylate Chemistry *via* Coupled Oxidation/Oxide Incorporation: Potential Insights into Photosynthetic Water Oxidation. S. Wang, H.-L. Tsai, K. S. Hagen, D. N. Hendrickson and G. Christou, *J. Am. Chem. Soc.* **1994**, *116*, 8376-8377.
140. A New Metal-Binding Mode for Adenine: A Bidentate (N6,N7) Bridging Mode in the Complex [Mo2(O2CCHF2)2(9-EtAH)22MeCN. E. F. Day, C. A. Crawford, K. Folting, K. R. Dunbar, and G. Christou, *J. Am. Chem. Soc.* **1994**, *116*, 9339-9340.
141. Biomimetic Chemistry of Nickel. Halcrow, M. H.; Christou, G. *Chem. Rev.***1994**, *94*, 2421-2481.
142. High Spin Molecules: (NBun4)[Mn8O6Cl6(O2CPh)7(H2O)2] (S = 11) and [Mn9Na2O7(O2CPh)15(MeCN)2] (S = 4). H.‑L. Tsai, S. Wang, K. Folting, W. E. Streib, D. N. Hendrickson, and G. Christou, *J. Am. Chem. Soc.***1995**, *117*, 2503-2514.
143. Dinuclear Copper(II) Complexes with the New [Cu2(μ-OAc)2]+ (R = alkyl) Core: Preparation and Characterization of [Cu2(OR)(OAc)2(bpy)2]+ (R = Me, Et, Prn) Salts. S. P. Perlepes, S. Paschalidou, J. C. Huffman, and G. Christou, *Polyhedron* **1995**, *14*, 1073-1081.
144. High Spin Molecules: Unusual Magnetic Susceptibility Relaxation Effects in [Mn12O12(O2CEt)16(H2O)3] (S=9) and the One-Electron Reduction Product (PPh4)[Mn12O12(O2CEt)16(H2O)4] (S=19/2). H. J. Eppley, H.-L. Tsai, N. de Vries, K. Folting, G. Christou, and D. N. Hendrickson, *J. Am. Chem. Soc.* **1995**, *117*, 301-317.
145. [Mn6O2(O2C-3,5-NO2-Ph)10(py)2(Me2CO)2] and [Mn6O2(O2CPh)10(MeCN)4]. M. A. Halcrow, W. E. Streib, K. Folting and G. Christou, *Acta Cryst., Sect. C* **1995**, *C51*, 1263-1267.
146. A Combination of Metal-Metal Bonding and an Antiferromagnetic Exchange Interaction in the d2-d2 Complex [V2O(SPh)4(Me2-bpy)2]·THF. N. S. Dean, S. L. Bartley, W. E. Streib, E. B. Lobkovsky, and G. Christou, *Inorg. Chem.* **1995**, *34*, 1608-1616.
147. Octadecanuclearity in Manganese Carboxylate Chemistry: K4[Mn18O16(O2CPh)22(phth)2(H2O)4] (phthH2 = phthalic acid) R. C. Squire, S. M. J. Aubin, K. Folting, W. E. Streib, D. N. Hendrickson, and G. Christou, *Angew. Chem. Int. Ed. Engl.* **1995**, *34*, 887.
148. The [Co4O4]4+ Cubane as a Quadruply Bridging Unit: the Mixed-Valence Aggregate [Co8O4(O2CPh)12(sol)4] (sol = MeCN, H2O). K. Dimitrou, S.‑J. Chen, K. Folting, and G. Christou, *Inorg. Chem.* **1995**, *34*, 4160-4166.
149. A Nickel(II) Azide Cubane, Ni4(N3)4(MeOH)2(dbm)4: Characterization of Magnetic Exchange Interactions Mediated by a μ3 End-on Azide Group. M. A. Halcrow, J. C. Huffman, S.‑J. Sun and G. Christou, *Angew. Chem. Int. Ed. Engl.* **1995**, *34*, 889-891.
150. High Spin Molecules: a Structural and Magnetic Comparison of High Nuclearity Manganese Carboxylate Aggregates. H. J. Eppley, S. Wang, H.‑L. Tsai, S. A. Aubin, K. Folting, W. E. Streib, D. N. Hendrickson, and G. Christou, *Mol. Cryst. Liq. Cryst.* **1995**, *274*, 159-166.
151. High Spin Molecules: Unusual Magnetic Susceptibility Relaxation Behavior of a Dodecanuclear Manganese Aggregate in Two Oxidation States. H.‑L. Tsai, H. J. Eppley, N. de Vries, K. Folting, G. Christou, and D. N. Hendrickson, *Mol. Cryst. Liq. Cryst.* **1995**, *274*, 167-173.
152. Site-Selective XANES and EXAFS: A Demonstration with Mn Mixtures and Mixed Valence Complexes. M. M. Grush, G. Christou, K. Hamalainen, and S. P. Cramer, *J. Am. Chem. Soc.* **1995**, *117*, 5895-5896.
153. Synthesis and Characterization of Vanadium(II,III,IV) Complexes of Pyridine-2-thiolate. J. G. Reynolds, S. C. Sendlinger, A. M. Murray, J. C. Huffman, and G. Christou, *Inorg. Chem.* **1995**, *34*, 5745-5752.
154. Incorporation of Fluoride into a Tetranuclear Mn/O/RCO2 Aggregate: Insights into Inhibition by Fluoride of Photosynthetic Water Oxidation. M. W. Wemple, D. M. Adams, K. Folting, D. N. Hendrickson, and G. Christou, *J. Am. Chem. Soc.* **1995**, *117*, 7275-7276.
155. Site-Specific Ligand Variation in Manganese-Oxide Cubane Complexes, and Unusual Magnetic Relaxation Effects in [Mn4O3X(OAc)3(dbm)3] (X = N3‑, OCN‑). M. W. Wemple, D. M. Adams, K. S. Hagen, K. Folting, D. N. Hendrickson, and G. Christou, *J. Chem. Soc., Chem. Commun.* **1995**, 1591-1593.
156. Structural and Magnetic Properties of [Ni4(OMe)4(dbm)4(MeOH)4] and [Ni4(N3)4(dbm)4(EtOH)4]; Magnetostructural Correlations for [Ni4X4]4+ Cubane Complexes. M. A. Halcrow, J.‑S. Sun, J. C. Huffman, and G. Christou, *Inorg. Chem.* **1995**, *34*, 4167-4177.
157. Octadecanuclearity in Manganese Carboxylate Chemistry: Preparation and Properties of K4[Mn18O16(O2CPh)22(phth)2(H2O)4]·10MeCN. R. C. Squire, S. M. J. Aubin, K. Folting, W. E. Streib, G. Christou, and D. N. Hendrickson, *Inorg. Chem.* **1995**, *34*, 6463-6471.
158. Tetranuclear Vanadium(III) Carboxylate Chemistry, and a New Example of a Metal Butterfly Complex Exhibiting Spin Frustration: Structure and Properties of [V4O2(O2CEt)7(bpy)2](ClO)4. Stephanie L. Castro, Ziming Sun, John C. Bollinger, David N. Hendrickson and George Christou, *J. Chem. Soc., Chem. Commun.* **1995**, 2517-2518.
159. Manganese L-Edge X-ray Absorption Spectroscopy of Manganese Catalase from *Lactobacillus plantarum* and Mixed Valence Manganese Complexes. M. M. Grush, J. Chen, T. L. Stemmler, S. J. George, C. Y. Ralston, R. T. Stibrany, A. Gelasco, G. Christou, S. M. Gorun, J. E. Penner-Hahn, and S. P. Cramer, *J. Am. Chem. Soc.***1996**, *118*, 65-69.
160. [M2(O2CR)2(9-EtGH)2L2]2+ (M = RhII, MoII, RuII) Complexes Containing N7-O6 Bridging 9-Ethylguanine(9-EtGH) Groups: Rare Head-to-Head Isomers for Untethered Nucleobases and a General Structural Motif for Dimetal Carboxylates with Guanine Ligands. C. A. Crawford, E. F. Day, V. P. Saharan, K. Folting, J. C. Huffman, K. R. Dunbar, and G. Christou, *J. Chem. Soc., Chem. Commun.* **1996**, 1113-1114.
161. *Bis*-Bipyridine Ligands in Manganese Carboxylate Cluster Chemistry: Self-Assembly of a Bi-Cluster Complex. V. A. Grillo, M. Knapp, J. C. Bollinger, D. N. Hendrickson, and G. Christou, *Angew. Chem. Int. Ed. Engl.* **1996**, *35*, 1818-1820.
162. Distorted MnIVMnIII3 Cubane Complexes as Single-Molecule Magnets. Aubin, S.M.J.; Wemple, M.W.; Adams, D.M.; Tsai, H.-L.; Christou, G. and Hendrickson, D.N., *J. Am. Chem. Soc.* **1996**, *118*, 7746-7754.
163. Structural, Spectroscopic and Magnetochemical Chracterization of the Trinuclear Vanadium(III) Carboxylates [V3O(O2CR)6L3](ClO4) (R = various; L = pyridine, 4-picoline, 3,5-lutidine). S. L. Castro, W. E. Streib, J.-S. Sun and G. Christou, *Inorg. Chem.* **1996**, *35*, 4462-4468.
164. Solution Studies of [Ru2(O2CR)4]n+ Complexes and Solid-State Structures of [Ru2(O2C-p-tolyl)4(THF)2], [Ru2(O2C-p-tolyl)4(THF)2](BF4) and [Ru2(O2C-p-tolyl)4(MeCN)2]: Investigations of the Axial Ligation of the Ru2 Core. M. H. Chisholm, G. Christou, K. Folting, J. C. Huffman, C. A. James, J. A. Samuels, J. L. Wesemann and W. H. Woodruff, *Inorg. Chem.* **1996**, *35*, 3643-3658.
165. High Nuclearity Manganese Carboxylate Clusters: Syntheses, Structural Characterization and Magnetic Properties. G. Christou in *Magnetism: A Supramolecular Function*: O. Kahn, Ed.; NATO ASI Series; Kluwer Academic Publishers: Dordrecht, Netherlands, **1996**, pp 383-410.
166. Tetranuclear and Pentanuclear Vanadium(IV/V) Carboxylate Complexes: [V4O8(NO3)(O2CR)4]2- and [V5O9X(O2CR)4]2- (X = Cl-, Br-) Salts. G. Karet, Z. Sun, D. Heinrich, J. K. McCusker, K. Folting, W. E. Streib, J. C. Huffman, D. N. Hendrickson and G. Christou, *Inorg. Chem.* **1996**, *35*, 6437-6449.
167. Tetranuclear and Octanuclear Manganese Carboxylate Clusters: Preparation and Reactivity of (NBun4)[Mn4O2(O2CPh)9(H2O)], and the Synthesis of NBun4)2[Mn8O4(O2CPh)12(Et2mal)2(H2O)2] with a “Linked-Butterflies” Structure. M. W. Wemple, H.-L. Tsai, S. Wang, J.-P. Claude, W. E. Streib, J. C. Huffman, D. N. Hendrickson and G. Christou, *Inorg. Chem.* **1996**, *35*, 6450-6460.
168. A Mixed-Valence (TiIII, TiIV) Carboxylate Complex: Crystal Structures and Properties of [Ti2OCl3(O2CPh)2(THF)3] and (NEt4)3[Ti2Cl9]. S. L. Castro, W. E. Streib, K. Folting and G. Christou, *J. Chem. Soc., Chem. Commun.* **1996**, 2177-2178.
169. *Bis*-Bipyridine Ligands in Cobalt Carboxylate Cluster Chemistry: a Mixed-Valence (4CoII,4CoIII) Complex with a Face-Sharing, Triple-Cubane Structure. V. A. Grillo, Z. Sun, K. Folting, D. N. Hendrickson and G. Christou, *J. Chem. Soc., Chem. Commun.* **1996**, 2233-2234.
170. Magnetochemical Properties and Reactions of Vanadium(III) Thiolate Complexes: Preparation of (NEt4)3[V3Cl6(edt)3] and Mixed-Valence (NEt4)[V2(edt)4] (edt = ethane-1,2-dithiolate). J. R. Rambo, S. L. Castro, K. Folting, S. A. Bartley, R. Heintz and G. Christou, *Inorg. Chem.* **1996**, *35*, 6844-6852.
171. Modeling the Photosynthetic Water Oxidation Center: Chloride/Bromide Incorporation and Reversible Redox Processes in the Complexes Mn4O3X(OAc)3(dbm)3 (X = Cl, Br). S. Wang, H.‑L. Tsai, K. Folting, W. E. Streib, D. N. Hendrickson, and G. Christou, *Inorg. Chem.* **1996**, *35*, 7578-7589.
172. Single-Molecule Magnets: Characterization of Complexes Exhibiting Out-of-Phase AC Susceptibility Signals. H. J. Eppley, S. M. J. Aubin, M. W. Wemple, D. M. Adams, H.‑L. Tsai, S. L. Castro, Z. Sun, K. Folting, J. C. Huffman, D. N. Hendrickson and G. Christou, *Mol. Cryst. Liq. Cryst.* **1997**, *305*, 167-179.
173. Single-Molecule Magnets: Magnetization Relaxation and Quantum Tunneling in Dodecanuclear Manganese Complexes. S. M. J. Aubin, S. Spagna, H. J. Eppley, K. Folting, G. Christou and D. N. Hendrickson, *Mol. Cryst. Liq. Cryst.* **1997**, *305*, 181-192.
174. Decanuclear Manganese(III) Complexes with the [Mn10O8]14+ Core: Structural and Magnetochemical Characterization of [Mn10O8(O2CPh)6(chel)8] (chel = pic, dbm). H. J. Eppley, S. J. M. Aubin, W. E. Streib, J. C. Bollinger, D. N. Hendrickson and G. Christou, *Inorg. Chem.* **1997**, *36*, 109-115.
175. Chlorine K-Edge X-ray Absorption Spectroscopy as a Probe of Chlorine-Metal Bonding: Manganese-Chloride Model Systems with Relevance to the Oxygen Evolving Complex in Photosystem II. A. Rompel, J. C. Andrews, R. M. Cinco, M. W. Wemple, G. Christou, N. A. Law, V. L. Pecoraro, K. Sauer, V. K. Yachandra and M. P. Klein, *J. Am. Chem. Soc.* **1997**, *119*, 4465-4470.
176. Synthesis and Magnetic Properties of Six New Trinuclear Oxo-Centered Manganese Complexes of the General Formulation [Mn3O(X-Benzoato)6L3] (X = 2-F, 2-Cl, 2-Br, 3‑F, 3‑Cl, 3‑Br; L = pyridine or water) and Crystal Structures of the 2-F, 3-Cl and 3-Br Complexes. J. Ribas, B. Albela, H. Stoeckli-Evans and G. Christou, *Inorg. Chem.* **1997**, *36*, 2352-2360.
177. A New Metal Cluster Topology Capable of Yielding High-Spin Species: Mixed-Valence [Mn7(OH)3Cl3(hmp)9]2+ with a S ≥ 10 Ground State. M. A. Bolcar, S. M. J. Aubin, K. Folting, D. N. Hendrickson, and G. Christou, *J. Chem. Soc., Chem. Commun.* **1997**, 1485.
178. Reaction of Nitrogen Chelates with the [Rh2]4+ Core: bis-Chelate Products and Demonstration of Reversible, Chelate-Based Reduction Processes. C. A. Crawford, J. H. Matonic, J. C. Huffman, K. Folting, K. R. Dunbar, and G. Christou, *Inorg. Chem.***1997**, *36*, 2361.
179. [Mn3O(O2CPh)6(py)2]2(4,4′-bpy) and [Mn9(O7(O2CPh)13(4,4′-bpy)]2: New Multinuclear Manganese Complexes. H. J. Eppley, N. de Vries, S. Wang, S. M. Aubin, H.-L. Tsai, K. Folting, D. N. Hendrickson and G. Christou, *Inorg. Chim. Acta.* **1997**, *263*, 323.
180. Dinuclear, Hexanuclear and Polynuclear Molybdenum(II) Carboxylates containing Quadruply-Bonded [Mo2]4+ Units: Crystal Structures of [Mo2(O2CCHF2)2(bpy)2(MeCN)(BF4)](BF4) and [Mo6(O2CCHF2)12(bpy)4]. E. F. Day, J. C. Huffman, K. Folting, and G. Christou, *J. Chem. Soc., Dalton Trans.* **1997**, 2837.
181. Single-Molecule Magnets: Isomeric [Mn12O12(O2CC6H4-4Me)16(H2O)4] Complexes Exhibiting Different Rates of Resonant Magnetization Tunneling. S. M. J. Aubin, Z. Sun, I. A. Guzei, A. L. Rheingold, G. Christou, and D. N. Hendrickson, *J. Chem. Soc., Chem. Commun.* **1997**, 2239.
182. Bis-(β-diketonate) Ligands for the Synthesis of Bimetallic Complexes of TiIII, VIII, MnIII and FeIII with a Triple-Helix Structure. V. A. Grillo, E. J. Seddon, C. M. Grant, G. Aromí, J. C. Bollinger, K. Folting and G. Christou, *J. Chem. Soc., Chem. Commun.* **1997**, 1561.
183. Structural and Magnetochemical Properties of Mono-, Di- and Trinuclear Manganese(III) Dithiolate Complexes. J. L. Seela, M. J. Knapp, K. S. Kolack, H.-R. Chang, J. C. Huffman, D. N. Hendrickson and G. Christou, *Inorg. Chem.* **1998**, *37*, 516.
184. Characterization of the Mn Oxidation States in Photosystem II by Kβ X-ray Fluorescence Spectroscopy. U. Bergmann, M. M. Grush, C. R. Horne, P. DeMarois, J. E. Penner-Hahn, C. F. Yocum, D. W. Wright, C. E. Dubé, W. H. Armstrong, G. Christou, H. J. Eppley and S. P. Cramer, *J. Phys. Chem. B* **1998**, *102*, 8350-8352.
185. Resonant Magnetization Tunneling in a Half-Integer-Spin, Single-Molecule Magnet. S. M. J. Aubin, S. Spagna, R. E. Sager, H. J. Eppley, D. N. Hendrickson and G. Christou, *Chem. Commun.* **1998**, 803.
186. Half-Integer-Spin, Single-Molecule Magnet Exhibiting Resonant Magnetization Tunneling. S. M. J. Aubin, N. R. Dilley, M. W. Wemple, M. B. Maple, D. N. Hendrickson and G. Christou, *J. Am. Chem. Soc.* **1998**, *120*, 839.
187. Dinuclear, Trinuclear and Mixed-Metal Hexanuclear Aggregates of Vanadium: Crystal Structures and Properties of [NEt4]3[V2Cl9], [PPh4]2[V3OCl4(O2CC6H4SH)5] and [NEt4]4[V2Li4O2Cl4(O2CC6H4S)4]. G. B. Karet, S. L. Castro, K. Folting, J. C. Bollinger, R. A. Heintz and G. Christou, *J. Chem. Soc., Dalton Trans.* **1998**, 67-72.
188. Single-Molecule Magnets: Different Rates of Resonant Magnetization Tunneling in Mn12 Complexes. D. Ruiz, Z. Sun, B. Albela, K. Folting, J. Ribas, G. Christou and D. N. Hendrickson, *Angew. Chem. Int. Ed. Engl.* **1998**, *37*, 300.
189. New Tetranuclear Metal Carboxylate Clusters with the [M4(μ3-O)2]8+ (M = MnIII, FeIII) Cores: Crystal Structures and Properties of [Mn4O2Cl2(O2CC6H3-3,5-F2)6(py)4, [Fe4O2Cl2(O2CMe)6(bpy)2] and [NBun4][Fe4O2(O2CMe)7(pic)2]. M. W. Wemple, D. K. Coggin, J. B. Vincent, J. K. McCusker, W. E. Streib, J. C. Huffman, D. N. Hendrickson, and G. Christou, *J. Chem. Soc., Dalton Trans.* **1998**, 719.
190. Single-Molecule Magnets: Tetranuclear Vanadium(III) Complexes with a Butterfly Structure and an S = 3 Ground State. S. L. Castro, Z. Sun, C. M. Grant, J. C. Bollinger, D. N. Hendrickson and G. Christou, *J. Am. Chem. Soc.* **1998**, *120*, 2365.
191. Modeling the Photosynthetic Water Oxidation Complex: Activation of Water by Controlled Deprotonation and Incorporation into a Tetranuclear Manganese Complex. G. Aromi, M. W. Wemple, S. M. J. Aubin, K. Folting, D. N. Hendrickson, and G. Christou, *J. Am. Chem. Soc.* **1998**, *120*, 5850-5851.
192. High Spin Molecules: Hexanuclear [Mn6O4Cl4(Me2dbm)6] (Me2dbmH = 4,4′-dimethyl-dibenzoylmethane) with a Near Tetrahedral [Mn6O4Cl4]6+ Core and a S = 12 Ground State. G. S. Aromi, J.-P. Claude, M. J. Knapp, J. C. Huffman, D. N. Hendrickson and G. Christou, *J. Am. Chem. Soc.* **1998**, *120*, 2977-2979.
193. Single-Molecule Magnets: Out-of-Phase A.C. Susceptibility Signals from Tetranuclear Vanadium(III) Complexes with a S = 3 Ground State. Z. Sun, C. M. Grant, S. L. Castro, D. N. Hendrickson and G. Christou, *Chem. Commun.* **1998**, 721.
194. Manganese Carboxylate Clusters: from Structural Aesthetics to Single-Molecule Magnets. G. Aromi, S. M. J. Aubin, M. A. Bolcar, G. Christou, H. J. Eppley, K. Folting, D. N. Hendrickson, J. C. Huffman, R. C. Squire, H.-L. Tsai, S. Wang, and M. W. Wemple, *Polyhedron* **1998**, *17*, 3005-3020.
195. Resonant Magnetization Tunneling in the Trigonal Pyramidal MnIVMnIII3 Complex [Mn4O3Cl(O2CCH3)3(dbm)3]. S. M. J. Aubin, N. R. Dilley, L. Pardi, J. Krzystek, M. W. Wemple, L.-C. Brunel, M. B. Maple, G. Christou and D. N. Hendrickson, *J. Am. Chem. Soc.* **1998**, *120*, 4991-5004.
196. A New Structural Type in Iron Carboxylate Cluster Chemistry *via* use of *bis*-Bipyridine Ligands: [Fe6O4Cl4(O2CPh)4L2][FeCl­4]2. C. M. Grant, M. J. Knapp, J. C. Huffman, D. N. Hendrickson and G. Christou, *Chem. Commun.* **1998**, 1753.
197. Isomeric Forms of [Mn12O12(O2CR)16(H2O)4] Single-Molecule Magnets. Z. Sun, D. Ruiz, E. Rumberger, C. D. Incarvito, K. Folting, A. L. Rheingold, G. Christou and D. N. Hendrickson, *Inorg. Chem.* **1998**, *37*, 4758-4759.
198. Dinuclear and Hexanuclear Iron(III) Oxide Complexes with a *bis*-Bipyridine Ligand: a New [Fe6(μ3-O4)4]10+ Core. C. M. Grant, M. J. Knapp, J. C. Huffman, D. N. Hendrickson and G. Christou, *Inorg. Chem.* **1998**, *37*, 6065-6070.
199. Syntheses, crystal structures and properties of mononuclear CrIII, and dinuclear VIII and CuII complexes with a *bis*-bipyridyl ligand. C.M. Grant, B.J. Stamper, M. J. Knapp, K. Folting, J. C. Huffman, D.N. Hendrickson and G. Christou, *J. Chem. Soc., Dalton Trans.* **1999**, 3399-3405.
200. Isomeric Forms of [Mn12O12(O2CR)16(H2O)4] Complexes Showing Different Magnetization Relaxation Processes. D. Ruiz, Z. Sun, S.M. J. Aubin, E. Rumberger, C. Incarvito, K. Folting, A.L. Rheingold, G. Christou, D.N. Hendrickson, *Mol. Cryst. Liq. Cryst.* **1999**, *335*, 413-422.
201. Resonant Magnetization Tunneling in Single-Molecule Magnets. S. M. J. Aubin, D. Ruiz, E. Rumberger, Z. Sun, B. Albela, M. W. Wemple, N. R. Dilley, J. Ribas, M. B. Maple, G. Christou, and D. N. Hendrickson, *Mol. Cryst. Liq. Cryst.* **1999**, *335*, 371-389.
202. High-Spin Molecules: Hexanuclear MnIII Clusters with [Mn6O4X4]6+ (X = Cl­, Br­) Face-capped Octahedral Cores and S = 12 Ground States. G. Aromí, M. J. Knapp, J.-P. Claude, J. C. Huffman, D. N. Hendrickson, and G. Christou, *J. Am. Chem. Soc.* **1999**, *121*, 5489.
203. Reduced Anionic Mn12 Molecules with Half-Integer Ground States as Single-Molecule Magnets. S. M. J. Aubin, Z. Sun, L. Pardi, J. Krzystek, K. Folting, L.-C. Brunel, A. L. Rheingold, G. Christou, and D. N. Hendrickson, *Inorg. Chem.* **1999**, *38*, 5329-5340.
204. Stepwise Assembly of a Polyoxovanadate from Mononuclear Units in an Organic Solvent: Carboxylate-stabilised Fragments in the Conversion of [VOCl4]2­ to [V15O36]5­. G. B. Karet, Z. Sun, W. E. Streib,J. C. Bollinger, D. N. Hendrickson and G. Christou, *Chem. Commun.* **1999**, 2249-2250.
205. The Origin of the Second Relaxation Process in the [Mn12O12(O2CR)16(H2O)4] Single-Molecule Magnets: “Jahn-Teller Isomerism” in the [Mn12O12] core. Z. Sun, D. Ruiz, N. R. Dilley, M. Soler, J. Ribas, K. Folting, M. B. Maple, G. Christou and D. N. Hendrickson, *Chem. Commun.* **1999**, 1973-1974.
206. The [Co4O4]4+ Cubane Core as a Brønsted Base: Preparation and Properties of [Co4O3(OH)(O2CR)2(bpy)2]3+ and [Co4O2(OH)2(O2CR)2(bpy)2]4+ Salts. K. Dimitrou, A. D. Brown, K. Folting, and G. Christou, *Inorg. Chem.* **1999**, *38*, 1834-1841.
207. A New Class of Single-Molecule Magnets: Mixed-Valent [Mn4(O2CMe)2(pdmH)6][ClO4]2 with a S = 8 Ground State. E. K. Brechin, J. Yoo, M. Nakano, J. C. Huffman, D. N. Hendrickson, and G. Christou, *Chem. Commun.* **1999**, 783-784.
208. Comparison of the Manganese Cluster in Oxygen-Evolving Photosystem II with Distorted Cubane Manganese Compounds through X-ray Absorption Spectroscopy. R. M. Cinco, A. Rompel, H. Visser, G. Aromi, G. Christou, K. Sauer, V. K. Yachandra and M. P. Klein, *Inorg. Chem.* **1999**, *38*, 5988-5598.
209. New Hexanuclear and Octanuclear Iron(III) Oxide Clusters: Octahedral [Fe6O2]14+ Species and Core Isomerism in [Fe8O4]16+ Complexes. E. K. Brechin, M. J. Knapp, J. C. Huffman, D. N. Hendrickson and G. Christou, *Inorg. Chim. Acta*, **2000**, *297*, 389-399.
210. Tetranuclear Manganese Carboxylate Complexes with a Trigonal Pyramidal Metal Topology *via* Controlled Potential Electrolysis. S. Wang, M. S. Wemple, H.-L. Tsai, K. Folting, J. C. Huffman, K. S. Hagen, D. N. Hendrickson and G. Christou, *Inorg. Chem.* **2000**, *39*, 1501-1513.
211. The Relaxation Times in a Tetranuclear Manganese Complex with S = 8. A. Yamaguchi, H. Ishimoto, K. Awaga, J. S. Yoo, M. Nakano, D. N. Hendrickson, E. K. Brechin and G. Christou, *Physica B*, **2000**, *284-288*, 1225-1226.
212. Single-Molecule Magnets: A New Class of Tetranuclear Manganese Magnets. J. Yoo, E. K. Brechin, A. Yamaguchi, M. Nakano, J. C. Huffman, A. L. Maniero, L.-C. Brunel, K. Awaga, H. Ishimoto, G. Christou and D. N. Hendrickson, *Inorg. Chem.,* **2000**, *39*, 3615-3623.
213. Single-Molecule Magnets. D. Ruiz, G. Christou and D. N. Hendrickson, *Mol. Cryst. Liq. Cryst.* **2000**, *343*, 17-27.
214. Dinuclear and Hexanuclear Iron(III) Carboxylate Clusters with a *bis*(bypyridine) Ligand: Supramolecular Aggregation of [Fe2O2] Units to give a [Fe6O6] Ladder Structure. E. J. Seddon, J. Yoo, K. Folting, J. C. Huffman, D. N. Hendrickson and G. Christou, *J. C. S. Dalton Trans.* **2000**, 3640-3648.
215. Tetranuclear Manganese Carboxylate Clusters with Imidazole-carboxylate Chelating Ligands. X-ray Crystal Structure of the 4-imidazoleacetate Complex. C. Boskovic, K. Folting and G. Christou, *Polyhedron*, **2000**, *19*, 2111-2118.
216. Inelastic Neutron Scattering and Magnetic Susceptibilities of the Single-Molecule Magnets [Mn4O3X(OAc)3(dbm)3]. H. Andres, R. Basler, H.-U. Gudel, G. Aromi, G. Christou, H. Buttner, and B. Ruffle*, J. Am. Chem. Soc*. **2000**, *122*, 12469-12477.
217. A Third Isolated Oxidation State for the Mn12 Family of Single-Molecule Magnets. M. Soler, S. K. Chandra, D. Ruiz, E. R. Davidson, D. N. Hendrickson and G. Christou, *Chem. Commun*. **2000**, 2417-2418.
218. A New Core Topology in Hexanuclear Iron(III) Carboxylate Chemistry: [Fe6O3(O2CMe)9(OEt)2(bpy)2][ClO­4]. E. J. Seddon, J. C. Huffman and G. Christou, *J.C.S. Dalton Trans.* **2000**, 4446-4452.
219. Single-Molecule Magnets. G. Christou, D. Gatteschi, D. N. Hendrickson and R. Sessoli, *MRS Bulletin* **2000**, *25*, 66-71.
220. A New Class of Single-Molecule Magnets: Mixed-Valent [Mn12O8Cl4(O2CPh)8(hmp)6]. C. Boskovic, E. K. Brechin, W. E. Streib, K. Folting, D. N. Hendrickson and G. Christou, *Chem. Commun.* **2001**, 467-468.
221. Single-Molecule Magnets: Jahn-Teller Isomerism and the Origin of Two Magnetization Relaxation Processes in Mn12 Complexes. S. M. J. Aubin, H. J. Eppley, I. A. Guzei, K. Folting, P. K. Gantzel, A.L. Rheingold, G. Christou and D. N. Hendrickson, *Inorg. Chem.* **2001**, *40*, 2127-2146.
222. Preparation, Crystal Structure and Chelate Substitution Reactions of [Mn4O2(O2CPh)6(dpm)2]. Canada-Vilalta, C.; Huffman, J.C.; Christou, G., *Polyhedron* **2001**, *20*, 1785-1793.
223. Two New Mixed-Valence Manganese Complexes of Formula [Mn4O2(X-benzoato)7(bpy)2] (X = 2-Cl, 2-Br) and the Crystal structure of the 2-Cl Complex: Ground-State Variability in the [Mn4O2]7+ Complexes. Albela, B.; El Fallah, M. S.; Ribas, J.; Folting, K.; Christou, G.; Hendrickson, D.N., *Inorg. Chem*. **2001**, *40*, 1037-1044.
224. Synthesis, Structural Characterization and Magnetic Properties of mixed-valent bis-bipyridine Manganese Carboxylate Clusters. E. C. Sañudo, V. A. Grillo, J. Yoo, J. C. Huffman, J. C. Bollinger, D. N. Hendrickson and G. Christou, *Polyhedron* **2001**, *20*, 1269-1272.
225. Preparation and Magnetic Properties of Low Symmetry [Mn4O3] Complexes with S = 9/2. N. Aliaga, K. Folting,D. N. Hendrickson and G. Christou, *Polyhedron* **2001**, *20*, 1273-1278.
226. Synthesis, Characterization and Magnetic Properties of Mn30O24(OH)8(O2CCH2But)32 (H2O)2(CH3NO2)4]: The Largest Manganese Carboxylate Cluster. M. Soler, E. Rumberger, K. Folting, D. N. Hendrickson and G. Christou, *Polyhedron* **2001**, *20*, 1365-1369.
227. Use of the Dicarboxylate Ligand *m*-Phenylenedipropionate for the Synthesis of New Mn/O clusters. Synthesis, Characterization and Magnetic Properties. C. Cañada-Vilalta, J. C. Huffman, W. E. Streib, E. R. Davidson and G. Christou, *Polyhedron* **2001**, *20*, 1375-1380.
228. A Third Isolated Oxidation State for the Family of [Mn12O12(O2CR)16(H2O)4] Compounds. Synthesis, Characterization and Single-Molecule Magnetism Properties of (PPh4)2[Mn12O12(O2CR)16(H2O)x] (x =3 or 4). M. Soler, S. K. Chandra, D. Ruiz, J. C. Huffman, D. N. Hendrickson and G. Christou, *Polyhedron* **2001**, *20*, 1279-1283.
229. Effects of Paramagnetic [Fe(C5Me5)2]+ Cation on the Anionic Single-Molecule Magnet [Mn12O12(O2CC6H4-o-F)16(H2O)4]‑. T. Kuroda-Sowa, M. Nakano, G. Christou and D.N. Hendrickson, *Polyhedron*, **2001**, *20*, 1529-1536.
230. Experimental Observation of Quantum Coherence in Molecular Magnetic Clusters with Half-Integer Spin. F. L. Mettes, G. Aromi, F. Luis, M. Evangelisti, G. Christou, D. Hendrickson and L. J. de Jongh, *Polyhedron* **2001**, *20*, 1459-1463.
231. Heat Capacity Calorimetry of Two Mn4 Large-Spin Clusters: [Mn4(hmp)6R2](ClO4)2 [Hhmp = 2-hydroxymethylpyridine, R = OAc‑ or Cl‑]. A. Bhattacharjee, Y. Miyazaki, Nakano, M.; Yoo, J.; Christou, G.; Hendrickson, D. N. and M. Sorai, *Polyhedron* **2001**, *20*, 1607-1613.
232. Magnetization Tunneling in Single-Molecule Magnets. D. N. Hendrickson, G. Christou, H. Ishimoto, J. Yoo, E. K. Brechin, A. Yamaguchi, E. M. Rumberger, S. M. J. Aubin, Z. Sun and G. Aromi, *Polyhedron* **2001**, *20*, 1479-1488.
233. Single-Molecule Magnets: Jahn-Teller Isomerism and the Origin of Two Magnetization Relaxation Processes in Mn12 Complexes. S. M. J. Aubin, Z. Sun, H. J. Eppley, E. M. Rumberger, I. A. Guzei, K. Folting, P. K. Gantzel, A. L. Rheingold, G. Christou and D.N. Hendrickson, *Polyhedron* **2001**, *20*, 1139-1145.
234. Mixed-Valence Tetranuclear Manganese Single-Molecule Magnets. J. Yoo, A. Yamaguchi, M. Nakano, J. Krzystek, W. E. Streib, L.-C. Brunel, H. Ishimoto, G. Christou and D. N. Hendrickson, *Inorg. Chem.* **2001**, *40*, 4604-4616.
235. Single-Molecule Magnets: Site-Specific Ligand Abstraction from [Mn12O12(O2CR)16-(H2O)4] and the Preparation and Properties of [Mn12O12(NO3)4(O2CCH2But)12(H2O)4]. Artus, P.; Boskovic, C.; Yoo, Y.; Streib, W. E.; Brunel, L.-C.; Hendrickson, D. N.; Christou, G., *Inorg. Chem.* **2001**, *40*, 4199-4210.
236. Abrupt Crossover between Thermally Activated Relaxation and Quantum Tunneling in a Molecular Magnet. Mertes, K.M.; Zhong, Y.; Sarachik, M.P.; Paltiel, Y.; Shtrikman, H.; Zeldov, E.; Rumberger, E.; Hendrickson, D.N.; Christou, G., *Europhys. Lett*. **2001**, *55*, 874-879
237. Mixed-Valence, Tetranuclear Cobalt(III,IV) Complexes: Preparation and Properties of [Co4O4(O2CR)2(bpy)4]3+ Salts. Dimitrou, K.; Brown, A. D.; Concolino, T. E.; Rheingold, A. L.; Christou, G., *Chem. Commun.* **2001**, 1284-1285.
238. Low Temperature Neutron Diffraction Study of Mn12-Acetate. P. Langan, R. Robinson, P.J. Brown, D. Argyriou, D.N. Hendrickson, G. Christou, *Acta Cryst., Sect. C*, **2001**, *C57*, 909-910.
239. Single-Molecule Magnets: Preparation and Properties of Mixed-Carboxylate Complexes [Mn12O12(O2CR)8(O2CR′)8(H2O)4]. M. Soler, P. Artus, K. Folting, J. C. Huffman, D. N. Hendrickson and G. Christou, *Inorg. Chem.* **2001**, *40*, 4902-4912.
240. Distribution of Tunnel Splittings in Mn12 Acetate. Mertes, K. M.; Suzuki, Y.; Sarachik, M. P.; Paltiel, Y.; Shtrikman, H.; Zeldov, E.; Rumberger, E.; Hendrickson, D. N.; Christou, G., *Phys. Rev. Lett*. **2001**, *87*, 227205/1-227205/4.
241. Linewidth of Single-Photon Transitions in Mn12-acetate. Parks, B.; Loomis, J.; Rumberger, E.; Hendrickson, D. N.; Christou, G., *Phys. Rev. B*, **2001**, *64*, 184426/1-184426/4.
242. Effects of Paramagnetic Ferrocenium Cations on the Magnetic Properties of the Anionic Single-Molecule Magnet [Mn12O12(O2CC6F5)16(H2O)4]-. Kuroda-Sowa, T.; Lam, M.; Rheingold, A. L.; Frommen, C.; Reiff, W. M.; Nakano, M.; Yoo, J.; Maniero, A. L.; Brunel, L.-C.; Christou, G.; Hendrickson, D. N., *Inorg. Chem*. **2001**, *40*, 6469-6480.
243. High-Frequency and -Field Electron Paramagnetic Resonance of High-Spin Manganese(III) in Axially Symmetric Coordination Complexes. Krzystek, J.; Telser, J.; Knapp, M. J.; Hendrickson, D. N.; Aromí, G.; Christou, G.; Angerhofer, A.; Brunel, L.-C., *Appl. Mag. Res.* **2001**, *21*, 571-585.
244. Single-Molecule Magnets: Ligand-Induced Core Distortion and Multiple Jahn-Teller Isomerism in [Mn12O12(O2CMe)8(O2PPh2)8(H2O)4]. C. Boskovic, M. Pink, J. C. Huffman, D. N. Hendrickson, G. Christou, *J. Am. Chem. Soc.* **2001**, *123*, 9914-9915.
245. Magnetic-Field-Dependent Heat Capacity of the Single-Molecule Magnet [Mn12O12(O2CEt)16(H2O)3]. Y. Miyazaki, A. Bhattacharjee, M. Nakano, K. Saito, S.M.J. Aubin, H.J. Eppley, G. Christou, D.N. Hendrickson, M. Sorai, *Inorg. Chem.* **2001**, *40*, 6632-6636
246. High Spin Molecular Magnets: Spin State Effects on the Outer Core-Level Multiplet Structures. Nelson, A. J.; Reynolds, J. G.; Christou, G., MRS Symp. Proc. **2001**, *635*, C4.13.1-6
247. Characterization of Nanoscopic [Mn12O12(O2CR)16(H2O)4] Single-Molecule Magnets: Physicochemical Properties and LDI- and MALDI-TOF Mass Spectrometry. D. Ruiz-Molina, P. Gerbier, E. Rumberger, D. B. Amabilino, I. A. Guzei, K. Folting, J. C. Huffman, A. Rheingold, G. Christou, J. Veciana and D.N. Hendrickson, *J. Mater. Chem.* **2002**, *12*, 1152-1161.
248. Bridging Nitrate Groups in [Mn4O3(NO3)(O2CMe)3(R2dbm)3] (R = H, Et) and [Mn4O2(NO3)(O2CEt)6(bpy)2](ClO4): Acidolysis Routes to Tetranuclear Manganese Carboxylate Complexes. Aromí, G.; Bhaduri, S.; Artús, P.; Folting, K.; Christou, G., *Inorg. Chem.* **2002**, *41*, 805-817.
249. A Tetranuclear Manganese Carboxylate Cluster with bis(2-pyridyl)amine Ligation: [Mn4O2(O2CEt)7(bpya)2](ClO4). Aromí, G.; Bhaduri, S.; Artús, P.; Huffman, J. C.; Hendrickson, D. N.; Christou, G., *Polyhedron*, **2002**, *21*, 1779-1786.
250. Tetranuclear Manganese Complexes with Dimer-of-Dimer and Ladder Structures from the Use of a bis-Bipyridyl Ligand. Sañudo, E. C.; Grillo, V. A.; Knapp, M. J.; Bollinger, J. C.; Huffman, J. C.; Hendrickson, D. N.; Christou, G., *Inorg. Chem.* **2002**, *41*, 2441-2450.
251. Magnetization tunneling in Mn12 and Mn4 single-molecule magnets. Yoo, J.; Rumberger, E. M.; Hendrickson, D. N.; Yamaguchi, A.; Ishimoto, H.; Brechin, E. K.; Christou, G., *J. Appl. Phys.* **2002**, *91*, 7155-7157.
252. Single-Molecule Magnets: High-Frequency Electron Paramagnetic Resonance Study of Two Isomeric Forms of an Mn12 Molecule. Aubin, S. M. J.; Sun, Z.; Rumberger, E. M.; Hendrickson, D. N.; Christou, G., *J. Appl. Phys.* **2002**, *91*, 7158-7160.
253. Ground State Tunneling due to a Distribution of Tunnel Splittings in Mn12-acetate. Mertes, K. M.; Suzuki, Y.; Sarachik, M. P.; Paltiel, Y.; Shtrikman, H.; Zeldov, E.; Rumberger, E. M.; Hendrickson, D. N.; Christou, G., *J. Appl. Phys.* **2002**, *91*, 7161-7163.
254. Quantum Phase Interference (Berry phase) in Single-Molecule Magnets of [Mn12]2‑. Wernsdorfer, W.; Soler, M.; Christou, G.; Hendrickson, D. N., *J. Appl. Phys.* **2002**, *91*, 7164-7166.
255. Inhomogeneous Broadening of Single Photon Transitions in Molecular Magnets. Parks, B.; Loomis, J.; Rumberger, E.; Yang, E.-C.; Hendrickson, D.N.; Christou, G., *J. Appl. Phys*. **2002**, *91*, 7170-7172.
256. A Cobalt Single-Molecule Magnet. Yang, E.-C.; Hendrickson, D. N.; Wernsdorfer, W.; Nakano, M.; Sommer, R.; Rheingold, A. L.; Ledezma-Gairaud, M.; Christou, G., *J. Appl. Phys.* **2002**, *91*, 7382-7384.
257. Exchange-biased Quantum Tunneling in a Supramolecular Dimer of Single-Molecule Magnets. Wernsdorfer, W.; Aliaga-Alcalde, N.; Hendrickson, D. N.; Christou, G., *Nature*, **2002**, *416*, 406-409. **DOI:**10.1038/416406a
258. Single-Molecule Magnets: A New Family of Mn12 Clusters of Formula [Mn12O8X4(O2CPh)8L6]. Boskovic, C.; Brechin, E.; Streib, W. E.; Folting, K.; Bollinger, J. C.; Hendrickson, D. N.; Christou, G., *J. Am. Chem. Soc.* **2002**, *124*, 3725-3736.
259. Field-Tuned Tunneling in [Fe(C5Me5)2][Mn12O12(CC6F5)16(H2O4] Studied by AC Magnetic Susceptibility. Kuroda-Sowa, T.; Christou, G.; Hendrickson, D. N., *Mol. Cryst. Liq. Cryst.* **2002**, *376*, 483-488.
260. Molecular Nanomagnets. Hendrickson, D. N.; Christou, G.; Ishimoto, H.; Yoo, J.; Brechin, E. K.; Yamaguchi, A.; Rumberger, E. M.; Aubin, S. M. J.; Sun, Z.; Aromi, G., *Mol. Cryst. Liq. Cryst.* **2002**, *376*, 301-313.
261. Slow Magnetization Reversal in [Ni4(OMe)4(sal)4(MeOH)4]. Nakano, M.; Matsubayashi, G.; Muramatsu, T.; Kobayashi, T. C.; Amaya, K.; Yoo, J.; Christou, G.; Hendrickson, D. N., *Mol. Cryst. Liq. Cryst.* **2002**, *376*, 405-410.
262. Observation of Magnetic Transition in Quantum Nanomagnet Mn4Br. Yamaguchi, A.; Kusumi, N.; Ishimoto, H.; Mitamura, H.; Goto, T.; Mori, N.; Nakano, M.; Awaga, K.; Yoo, J.; Hendrickson, D. N.; Christou, G., *J. Phys. Soc. Jpn*. **2002**, *71*, 414-417.
263. Spin-Parity Dependent Tunneling of Magnetization in Single-Molecule Magnets. W. Wernsdorfer, S. Bhaduri, C. Boskovic, G. Christou and D. N. Hendrickson, *Phys. Rev. B* **2002**, *65*, 180403/1-180403/4.
264. A High Nuclearity, Mixed-Valence Manganese(III,IV) Complex: [Mn21O24(OMe)8(O2CCH2But)16(H2O)10]. Brockman, J. T.; Huffman, J. C.; Christou, G., *Angew. Chem. Int. Ed.* **2002**, *41*, 2506-2508.
265. Synthesis of [Mn12O12(O2CR)16(H2O)4] Complexes (R = Me, Et, Ph, Cr). Eppley, H. J.; Christou, G., *Inorg. Synth.* **2002**, *33*, 61-66.
266. Quantum Tunneling of Magnetization in a New [Mn18]2+ Single-Molecule Magnet with S = 13. Brechin, E. K.; Boskovic, C.; Wernsdorfer, W.; Yoo, J.; Yamaguchi, A.; Sañudo, E. C.; Concolino, T. R.; Rheingold, A. L.; Ishimoto, H.; Hendrickson, D. N.; Christou, G., *J. Am. Chem. Soc.* **2002**, 124, 9710-9711.
267. Single-Molecule Magnets: Novel Mn8 and Mn9 Carboxylate Clusters Containing an Unusual Pentadentate Ligand Derived from Pyridine-2,6-dimethanol. Boskovic, C.; Wernsdorfer, W.; Folting, K.; Huffman, J.C.; Hendrickson, D.N.; Christou, G., *Inorg. Chem.* **2002**, 41, 5107-5118.
268. Towards a synthetic model of the photosynthetic water oxidizing complex: [Mn3O4(O2CMe)4(bpy)2] containing the [MnIV3(μ-O)4]4+ core. Bhaduri, S.; Pink, M.; Christou, G., *Chem. Commun.* **2002**, 2352-2353.
269. Ground State Tunneling in Mn12-acetate. Mertes, K. M.; Suzuki, Y.; Sarachik, M. P.; Paltiel, Y.; Shtrikman, H.; Zeldov, E.; Rumberger, E. M.; Hendrickson, D. N.; Christou, G., *Phys. Rev. B* **2002**, *65*, 212401/1-212401/4.
270. A new synthetic method to Mn carboxylate clusters: reductive fragmentation of [Mn12O12(O2CR)16(H2O)4] to [Mn8O2(O2CR)14(RCO2H)4] (R = CH2But). Boskovic, C.; Huffman, J. C.; Christou, G., *Chem. Commun.* **2002**, 2502-2503.
271. A new class of single-molecule magnet: [Mn9O7(OAc)11(thme)(py)3(H2O)2] with an S = 17/2 ground state. Brechin, E. K.; Soler, M.; Davidson, J.; Parsons, S.; Christou, G., *Chem. Commun.* **2002**, 2252-2253.
272. Two New Hexanuclear Iron(III) Complexes with S = 5 Ground States. Cañada-Vilalta, C.; Rumberger, E.; Brechin, E. K.; Wernsdorfer, W.; Folting, K.; Davidson, E. R.; Hendrickson, D. N.; Christou, G., *J. Chem. Soc., Dalton Trans.* **2002**, 4005-4010.
273. Spin-spin cross-relaxation in single-molecule magnets. Wernsdorfer, W.; Bhaduri, S.; Tiron, R.; Hendrickson, D. N.; Christou, G., *Phys. Rev. Lett.* **2002**, *89*, 197201(1-4).
274. Tunneling Splittings in Mn12-acetate Single Crystals. del Barco, E.; Kent, A.D.; Rumberger, E.M.; Hendrickson, D.N.; Christou, G., *Europhys. Lett.*, **2002**, *60*, 768–774.
275. Preparation and crystal structures of MnII, mixed-valent MnII/MnIII, and MnIII polymeric compounds. Tasiopoulos, A. J.; Harden, N. C.; Abboud, K. A.; Christou, G., *Polyhedron* **2003**, *22*, 133-143.
276. Synthesis, crystal structure and magnetic properties of a new ferromagnetic nickel(II) dimer derived from a hexadentate Schiff base ligand. Deoghoria, S.; Sain, S.; Soler, M.; Wong, W. T.; Christou, G.; Bera, S. K.; Chandra, S.K., *Polyhedron*, **2003**, *22*, 257-262.
277. Single-Molecule Magnets: Two-Electron Reduced Version of a Mn12 Complex, and Environmental Influences on the Magnetization Relaxation of (PPh4)2[Mn12O12(O2C-CHCl2)16(H2O)4]. Soler, M.; Wernsdorfer, W.; Abboud, K.A.; Huffman, J.C.; Davidson, E.R.; Hendrickson, D.N.; Christou, G., *J. Am. Chem. Soc*. **2003**, *135*, 3576-3588.
278. A Novel Aggregate of [Mn2(μ-O)2] Units: [Mn8O10(O2CMe)6(H2O)2(bpy)6]4+ with a Serpentine Core. Tasiopoulos, A.J.; Abboud, K.A.; Christou, G., *Chem. Commun*. **2003**, 580-581.
279. Symmetric and Asymmetric Dinuclear Manganese(IV) Complexes Possessing a [MnIV2(μ-O)2(μ-O2CMe)]3+ Core and Terminal Cl- Ligands. Bhaduri, S.; Tasiopoulos, A.J.; Bolcar, M.A.; Abboud, K.A.; Streib, W.E.; Christou, G., *Inorg. Chem.* **2003**, *42*, 1483-1492.
280. Preparation and Properties of [NH2Et2][Mn10(OH)3(phth)9(bpy)6], a New Decanuclear Mn(II) Compound with a Variety of Phthalate Binding Modes. Cañada-Vilalta, C.; Pink, M.; Christou, G. *Dalton Trans*. **2003**, 1121-1125.
281. A Phenolysis Route to a New Type of Octanuclear Iron(III) Wheel: [Fe8(OH)4(OPh)8(O2CBut)12]. Cañada-Vilalta, C.; Pink, M.; Christou, G. *Chem. Commun*. **2003**, 1240-1241.
282. Novel Octanuclear and Enneanuclear Manganese Clusters with Carboxylate and Pyrimidine Ligands. Brechin, E.L.; Christou, G.; Soler, M.; Helliwell, M.; Teat, S.J., *Dalton Trans*. **2003**, 513-514.
283. Dodecanuclear and Octanuclear Manganese Rods. Brechin, E. K.;Soler, M.;Christou, G.;Helliwell, M.; Teat, S.J.; Wernsdorfer, W., *Chem. Commun*. **2003**, 1276-1277.
284. Single-molecule magnets. A Mn12 Complex with Mixed Carboxylate-Sulfonate Ligation: [Mn12O12(O2CMe)8(O3SPh)8(H2O)4]. Chakov, N.E.; Wernsdorfer, W.; Abboud, K.A.; Hendrickson, D.N.; Christou, G., *Dalton Trans*. **2003**, 2243-2248.
285. Exchange bias in Ni4 single-molecule magnets. E-C. Yang, W. Wernsdorfer, S. Hill, R.S. Edwards, M. Nakano, S. Maccagnano, L. N. Zakharov, A.L. Rheingold, G. Christou and D.N. Hendrickson, *Polyhedron,* **2003**, *22*, 1727-1733.
286. Reaction of [Mn12O12(O2CR)16(H2O)4] single-molecule magnets with non-carboxylate ligands. N. E. Chakov, K. A. Abboud, L. N. Zakharov, A. L. Rheingold, D. N. Hendrickson and G. Christou, *Polyhedron*, **2003**, *22*, 1759-1763.
287. A new family of Mn12 single-molecule magnets: replacement of carboxylate ligands with diphenylphosphinates. J. T. Brockman, K. A. Abboud, D. N. Hendrickson and G. Christou, *Polyhedron*, **2003**, *22*, 1765-1769.
288. Magnetization tunneling in an enneanuclear manganese cage. E. K. Brechin, M. Soler, G. Christou, J. Davidson, D. N. Hendrickson, S. Parsons and W. Wernsdorfer, *Polyhedron*, **2003**, *22*, 1771-1775.
289. Single-molecule magnetism behavior of [Mn12O12(O2CR)16(H2O)4]2‑ salts. M. Soler, W. Wernsdorfer, K.A. Abboud, D.N. Hendrickson and G. Christou, *Polyhedron*, **2003**, *22*, 1777-1782.
290. New example of Jahn-Teller isomerism in [Mn12O12(O2CR)16(H2O)4] complexes. M. Soler, W. Wernsdorfer, Z. Sun, D. Ruiz, J. C. Huffman, D. N. Hendrickson and G. Christou, *Polyhedron*, **2003**, *22*, 1783-1788.
291. Mn4 single-molecule magnets with a planar diamond core and S=9. E.-Ch. Yang, N. Harden, W. Wernsdorfer, L. Zakharov, E.K. Brechin, A.L. Rheingold, G. Christou, D.N. Hendrickson, *Polyhedron*, **2003**, *22*, 1857-1863.
292. Search for new iron single-molecule magnets. E. M. Rumberger, S. Hill, R. S. Edwards, W. Wernsdorfer, L. N. Zakharov, A. L. Rheingold, G. Christou and D. N. Hendrickson, *Polyhedron*, **2003**, *22*, 1865-1870.
293. A comparative high frequency EPR study of monomeric and dimeric Mn4 single-molecule magnets. R. S. Edwards, S. Hill, S. Bhaduri, N. Aliaga-Alcalde, E. Bolin, S. Maccagnano, G. Christou and D. N. Hendrickson, *Polyhedron*, **2003**, *22*, 1911-1916.
294. Through quantum tunneling to dipolar order: the effect of varying magnetic anisotropy in three structurally related Mn4 molecular clusters. M. Evangelisti, F. Luis, F. L. Mettes, N. Aliaga, G. Aromi, G. Christou and L. J. de Jongh, *Polyhedron*, **2003**, *22*, 2169-2173.
295. [Mn18]2+ and [Mn21]4+ single-molecule magnets. E. C. Sanudo, E. K. Brechin, C. Boskovic, W. Wernsdorfer, J. Yoo, A. Yamaguchi, T. R. Concolino, K. A. Abboud, A. L. Rheingold, H. Ishimoto, D. N. Hendrickson and G. Christou, *Polyhedron*, **2003**, *22*, 2267-2271.
296. Magnetic and inelastic neutron scattering studies of a frustrated tetranuclear Mn3+ butterfly-type cluster. R. Basler, G. Chaboussant, C. Canada-Vilalta, G. Christou, H. Mutka, S. Janssen, F. Altorfer and H.-U. Gudel, *Polyhedron*, **2003**, *22*, 2471-2479.
297. Density-functional theory calculation of the intermolecular exchange interaction in the magnetic Mn4 dimer. K. Park, M. R. Pederson, S. L. Richardson, N. Aliaga-Alcalde, and G. Christou, *Phys. Rev. B*, **2003**, *68*, 020405(1-4).
298. Spin state effects on the outer core-level multiplet structures for high spin Mn molecular clusters. A.J. Nelson, J.G. Reynolds and George Christou, *J. Appl. Phys*. **2003**, *93*, 2536-2539.
299. Effect of Mechanical Stress on the Linewidth of Single Photon Absorptions in Mn12-acetate. Parks, B.; Vacca, L.; Rumberger, E.; Hendrickson, D. N.; Christou, G., Physica B **2003**, *329-333*, 1181-1182.
300. Symmetry of Magnetic Quantum Tunneling in Single Molecule Magnet Mn12-Acetate. E. del Barco, A. D. Kent, E.M. Rumberger, D. N. Hendrickson, and G. Christou, *Phys. Rev. Lett*. **2003**, *91*, 047203 (1-4).
301. Half-integer Spin Molecular Nanomagnets. D. N. Hendrickson, G. Christou, W. Wernsdorfer, S. O. Hill, N. Aliaga-Alcalde, S. Bhaduri, R. S. Edwards, S. M. J. Aubin, and Z. Sun, *Mat. Res. Soc. Symp. Proc*. **2003**, *746*, 231-240.
302. Single Crystal High Frequency Cavity-based EPR Spectroscopy of Single-Molecule Magnets. Hill, S.; Edwards, R. S.; Jones, S. I.; Maccagnano, S.; North, J. M.; Aliaga, N.; Yang, E.-C.; Dalal, N. S.; Christou, G.; Hendrickson, D.N., *Mat. Res. Soc. Symp. Proc*. **2003**, *746*, 253-264.
303. Defects, Tunneling, and EPR Spectra of Single-Molecule Magnets. Park, K.; Novotny, M. A.; Dalal, N. S.; Hill, S.; Rikvold, P. A.; Bhaduri, S.; Christou, G.; Hendrickson, D. N., *Mat. Res. Soc. Symp. Proc*. **2003**, *746*, 241-252.
304. More Evidence for a Distribution of Tunnel Splittings in Mn12-acetate. Mertes, K. M.; Suzuki, Y.; Sarachik, M. P.; Myasoedov, Y.; Shtrikman, H.; Zeldov, E.; Rumberger, E. M.; Hendrickson, D. N.; Christou, G., *J. Appl. Phys*. **2003**, *93*, 7095-7097.
305. High-frequency Electron Paramagnetic Resonance Investigations of Tetranuclear Nickel-based Single-Molecule Magnets. Edwards, R. S.; Maccagnano, S.; Yang, E.-C.; Hill, S.; Wernsdorfer, W.; Hendrickson, D. N.; Christou, G. *J. Appl. Phys*. **2003**, *93*, 7807-7809.
306. Mn12-acetate: a Prototypical Single-Molecule Magnet. K. M. Mertes, Y. Suzuki, M. P. Sarachik, Y. Myasoedov, H. Shtrikman, E. Zeldov, E. M. Rumberger, D. N. Hendrickson and G. Christou, *Solid State Comm*. **2003**, *127*, 131-139.
307. Quantum Tunneling in a Three-Dimensional Network of Exchange-coupled Single-Molecule Magnets. R. Tiron, W. Wernsdorfer, N. Aliaga-Alcalde, and G. Christou, *Phys. Rev. B* **2003**, *68*, 140407(1-4).
308. Heptanuclear and Decanuclear Manganese Complexes with the Anion of 2-Hydroxy-methylpyridine. N. C. Harden, M. A. Bolcar, W. Wernsdorfer, K. A. Abboud, W. E. Streib, and G. Christou, *Inorg. Chem*. **2003**, *42*, 7067-7076.
309. Single-Molecule Magnets: Control by a Single Solvent Molecule of Jahn-Teller Isomerism in [Mn12O12(O2CCH2But)16(H2O)4]. M. Soler, W. Wernsdorfer, Z. Sun,J. C. Huffman, D. N. Hendrickson and G. Christou, *Chem. Commun*. **2003**, 2672-2673.
310. Quantum Coherence in an Exchange-Coupled Dimer of Single-Molecule Magnets. S. Hill,R. S. Edwards, N. Aliaga-Alcalde and G. Christou, *Science*, **2003**, *302*, 1015-1018. **DOI:** 10.1126/science.1090082
311. Spin Quantum Tunneling via Entangled States in a Dimer of Exchange-Coupled Single-Molecule Magnets. R. Tiron, W. Wernsdorfer, D. Foguet-Albiol, N. Aliaga-Alcalde, and G. Christou, *Phys. Rev. Lett*. **2003**, *91*, 227203(1-4).
312. Non-exponential Magnetization Relaxation in a Manganese Single-Molecule Magnet. A. Yamaguchi, H. Mitamura, N. Môri, T. Goto, H. Ishimoto, M. Nakano, J. Yoo, D. N. Hendrickson, E. K. Brechin and G. Christou, *Physica B*, **2003**, *329-333*, 1174-1175.
313. Preparation and Properties of New Fe6 and Fe8 Clusters of Iron(III) with Tripodal Ligands. M. Murugesu, K. A. Abboud and G. Christou, *Dalton Trans*. **2003**, 4552-4556.
314. Methanolysis and Phenolysis Routes to Fe6, Fe8 and Fe10 Complexes, and their Magnetic Properties: A New Type of Fe8 Ferric Wheel. C. Cañada-Vilalta, T. A. O’Brien, M. Pink, E. R. Davidson and G. Christou, *Inorg. Chem*. **2003**, *42*, 7819-7829.
315. Template Synthesis and Single-Molecule Magnetism Properties of a Complex with Spin S =16 and a [Mn8O8]8+ Saddle-Like Core. A. J. Tasiopoulos, W. Wernsdorfer, B. Moulton, M. J. Zaworotko, and G. Christou, *J. Am. Chem. Soc*. **2003**, *125*, 15274-15275.
316. Long-Range Ferromagnetic Dipolar Ordering of High-Spin Molecular Clusters. A. Morello, F. L. Mettes, F. Luis, J. F. Fernandez, J. Krzystek, G. Aromi, G. Christou, and L. J. de Jongh, *Phys. Rev. Lett*. **2003**, *90*, 017206(1-4).
317. Quantum Tunneling of Magnetization in Single-Molecule Magnets. Mertes, K. M.; Suzuki, Y.; Sarachik, M. P.; Myasoedov, Y.; Shtrikman, H.; Zeldov, E.; Rumberger, E. M.; Hendrickson, D. N.; Christou, G. *Recent Res. Dev. Phys.*  **2003**, *4*, 731-747.
318. Two-body Tunnel Transitions in a Mn4 Single-Molecule Magnet. W. Wernsdorfer, S. Bhaduri, R. Tiron, D. N. Hendrickson, and G. Christou, *J. Mag. Magnet. Mater*. **2004**, *272-276*, 1109-1110.
319. Quantum Dynamics of Exchange-biased Single-Molecule Magnets. W. Wernsdorfer, N. Aliaga-Alcalde, R. Tiron, D. N. Hendrickson, and G. Christou, *J. Mag. Magnet. Mater*. **2004**, *272-276*, 1037-1041.
320. Mixed Transition Metal - Lanthanide Complexes at Higher Oxidation States: Heteronuclear CeIV- MnIV Clusters. A.J. Tasiopoulos, T.A. O’Brien, K.A. Abboud, G. Christou, *Angew. Chem. Int. Ed*. **2004**, *43*, 345-349
321. Single-Molecule Magnets: A Large Mn30 Molecular Nanomagnet Exhibiting Quantum Tunneling of Magnetization. M. Soler, W. Wernsdorfer, K. Folting, M. Pink and G. Christou, *J. Am. Chem. Soc*., **2004**, *126*, 2156-2165.
322. Distribution of Internal Transverse Magnetic Fields in a Mn12-based Single-Molecule Magnet. E. del Barco, A. D. Kent, N. E. Chakov, L. N. Zakharov, A. L. Rheingold, D. N. Hendrickson, and G. Christou, *Phys. Rev. B*, **2004**, *69*, 020411(1-4).
323. Giant Single-Molecule Magnets: A Mn84 Torus and its Supramolecular Nanotubes. A. J. Tasiopoulos, A. Vinslava, W. Wernsdorfer, K. A. Abboud and G. Christou, *Angew. Chem. Int. Ed*. **2004**, *43*, 2117-2121.
324. Synthesis, Structure and Magnetic Properties of a Mn21 Single-Molecule Magnet. E. C. Sañudo, W. Wernsdorfer, K. A. Abboud, and G. Christou, *Inorg. Chem*. **2004**, *43*, 4137-4144.
325. Single-Molecule Magnets: A Mn25 Complex with a Record S = 51/2 Spin for a Molecular Species. M. Murugesu, M. Habrych, W. Wernsdorfer, K. A. Abboud, and G. Christou, *J. Am. Chem. Soc.*, **2004**, *126*, 4766-4767.
326. Synthesis, Structure, and Magnetic Properties of a [Mn22] Wheel-like Single-Molecule Magnet. M. Murugesu, J. Raftery, W. Wernsdorfer, G. Christou, and E. K. Brechin, *Inorg. Chem*. **2004**, *43*, 4203-4209.
327. Raman and Infrared Measurements on the [Mn4]2 Dimer: A Single-Molecule Magnet with an Exchange Bias. J. M. North, N. S. Dalal, D. Foguet-Albiol, A. Vinslava, and G. Christou, *Phys. Rev. B* **2004**, *69*, 174419(1-6).
328. Tunnel splitting distributions and dipolar shuffling in Mn12-acetate. K.M. Mertes, Y. Suzuki, M.P. Sarachik, Y. Myasoedov, H. Shtrikman, E. Zeldov, E.M. Rumberger, D.N. Hendrickson, G. Christou, *J. Mag, Magnet. Mater*. **2004**, *272-276*, 719-720.
329. Thermally assisted tunneling for a distribution of tunnel splittings in Mn12-acetate. Y. Suzuki, K.M. Mertes, M.P. Sarachik, Y. Myasoedov, H. Shtrikman, E. Zeldov, E.M. Rumberger, D.N. Hendrickson, G. Christou, *J. Mag, Magnet. Mater*. **2004**, *272-276*, 739-740.
330. Polynuclear Manganese Complexes with the Dicarboxylate Ligand m-Phenylene-dipropionate: a Hexanuclear Mixed-Valence (3MnIII, 3MnIV) Complex. C. Cañada-Vilalta, W.E. Streib, J. C. Huffman, T. A O’Brien, E. R. Davidson, and G. Christou, *Inorg. Chem*., **2004**, *43*, 101-115.
331. Evidence for the *S* = 9 Excited State in Mn12-bromoacetate measured by Electron Paramagnetic Resonance. K. Petukhov and S. Hill, N. E. Chakov, K. A. Abboud, and G. Christou, *Phys. Rev B*, **2004**, *70*, 054426 (1-5).
332. Large Spin Differences in Structurally Related Fe6 Molecular Clusters, and their Magnetostructural Explanation. C. Cañada-Vilalta, T. A. O'Brien, E. K. Brechin, M. Pink, E. R. Davidson, and G. Christou, *Inorg. Chem*. **2004**, *43*, 5505-5521.
333. Mixed-Valence MnIIIMnIV Clusters [Mn7O8(O2SePh)8(O2CMe)(H2O)] and [Mn7O8(O2SePh)9(H2O)]: Single-Chain Magnets Exhibiting Quantum Tunneling of Magnetization. N. E. Chakov, W. Wernsdorfer, K. A. Abboud, and G. Christou, *Inorg. Chem*. **2004**, *43*, 5919-5930.
334. Single-Molecule Magnets: Preparation and Properties of Low Symmetry [Mn4O3(O2CPh-R)4(dbm)3] Complexes with *S* = 9/2. N. Aliaga-Alcalde, R. S. Edwards, S. O. Hill, W. Wernsdorfer, K. Folting, G. Christou, *J. Am. Chem. Soc*. **2004**, *126*, 12503-12516.
335. New Hexanuclear and Dodecanuclear Fe(III) Clusters with Carboxylate and Alkoxide-based Ligands from Cluster Aggregation Reactions. M. Murugesu, K. A. Abboud and G. Christou, *Polyhedron*, **2004**, *23*, 2779-2788.
336. Determination of the Magnetic Anisotropy Axes of Single-Molecule Magnets. W. Wernsdorfer, N. E. Chakov, and G. Christou, *Phys. Rev. B*, **2004**, *70*, 132413 (1-4).
337. New Routes to Polymetallic Clusters: Fluoride-Based Tri-, Deca- and Hexaicosametallic MnIII Clusters and their Magnetic Properties. L. F. Jones, G. Rajaraman, J. Brockman, M. Murugesu, J. Raftery, S. J. Teat, W. Wernsdorfer, G. Christou, E. K. Brechin, and D. Collison, *Chem. Eur. J.* **2004**, *10*, 5180-5194.
338. A Family of Mn16 Single-Molecule Magnets from a Reductive Aggregation Route. P. King, W. Wernsdorfer, K. A. Abboud, and G. Christou, *Inorg. Chem*. **2004**, *43*, 7315-7323.
339. A Family of Manganese Rods: Syntheses, Structures and Magnetic Properties. G. Rajaraman, M. Murugesu, E. C. Sañudo, M. Soler, W. Wernsdorfer, M. Helliwell, C. Muryn, J. Raftery, S. J. Teat, G. Christou, and E. K. Brechin, *J. Am. Chem. Soc*. **2004**, *126*, 15445-15457.
340. A Reductive Aggregation Route to New [Mn12O12(OMe)2(O2CPh)16(H2O)2]2- Single-Molecule Magnets Related to the [Mn12] Family. A. J. Tasiopoulos, W. Wernsdorfer, K. A. Abboud and G. Christou, *Angew. Chem. Int. Ed.* **2004**, *43*, 6338-6342.
341. Mn Oxidation States in Tri- and Tetranuclear Mn Compounds Structurally Relevant to Photosystem II: Mn K-edge X-ray Absorption and Kβ X-ray Emission Spectroscopy Studies. S. A. Pizarro, P. Glatzel, H. Visser, J. H. Robblee, G. Christou, U. Bergmann, and V. K. Yachandra, *Phys. Chem. Chem. Phys*. **2004**, *6*, 4864-4870.
342. Initial Observation of Magnetization Hysteresis and Quantum Tunneling in Mixed Manganese–Lanthanide Single-Molecule Magnets. A. Mishra, W. Wernsdorfer, K. A. Abboud, and G. Christou, *J. Am. Chem. Soc.*, **2004**, *126*, 15648-15649.
343. Magnetic Long-Range Order Induced by Quantum Relaxation in Single-Molecule Magnets. M. Evangelisti, F. Luis, F. L. Mettes, N. Aliaga, G. Aromı´, J. J. Alonso, G. Christou, and L. J. de Jongh, *Phys. Rev. Lett*. **2004**, *93*, 117202 (1-4).
344. Pressure Dependence of the Magnetic Anisotropy in the Single-Molecule Magnet [Mn4O3Br(OAc)3(dbm)3]. A. Sieber, G. Chaboussant, R. Bircher, C. Boskovic, H. U. Güdel, G. Christou, and H. Mutka, *Phys. Rev. B*, **2004**, *70*, 172413 (1-4).
345. The Electronic Structure of Mn in Oxides, Coordination Complexes, and the Oxygen-Evolving Complex of Photosystem II Studied by Resonant Inelastic X-ray Scattering. P. Glatzel, U. Bergmann, J. Yano, H. Visser, J. H. Robble, W. Gu, F. M. F. de Groot, G. Christou, V. L. Pecoraro, S. P. Cramer, V. K. Yachandra, *J. Am. Chem. Soc.* **2004**, *126*, 9946-9959.
346. DFT Computational Rationalization of an Unusual Spin Ground State in a New [Mn12] Single-Molecule Magnet with a Low-Symmetry Loop Structure. D. Foguet-Albiol, T. A. O’Brien, W. Wernsdorfer, B. Moulton, M. J. Zaworotko, K. A. Abboud and G. Christou, *Angew. Chem. Int. Ed*. **2005**, *44*, 897-901.
347. New Structural Motifs in Manganese Single-Molecule Magnetism from the Use of Triethanolamine Ligands. M. Murugesu, W. Wernsdorfer, K. A. Abboud and G. Christou, *Angew. Chem. Int. Ed*. **2005**, *44*, 892-896.
348. The First High Oxidation State Manganese/Calcium Cluster: Relevance to the Water Oxidizing Complex of Photosynthesis. A. Mishra, W. Wernsdorfer, K. A. Abboud, and G. Christou, *Chem. Commun*. **2005**, 54-56.
349. Single-Molecule Magnets: Structure and Properties of [Mn18O14(O2CMe)18(hep)4(hepH)2-(H2O)2](ClO4)2 with Spin S=13. E. K. Brechin, E. C. Sanudo, W. Wernsdorfer, C. Boskovic, J. Yoo, D. N. Hendrickson,A. Yamaguchi, H. Ishimoto, T. E. Concolino, A. L. Rheingold, and G. Christou, *Inorg. Chem*. **2005**, *44*, 502-511.
350. Inelastic Neutron Scattering Study of Electron Reduction in Mn12 Derivatives. R. Basler, A. Sieber, G. Chaboussant, H. U. Gudel, N. E. Chakov, M. Soler and G. Christou, A. Desmedt, and R. Lechner, *Inorg. Chem*. **2005**, *44*, 649-653.
351. Studies of an Enneanuclear Manganese Single-Molecule Magnet. S. Piligkos, G. Rajaraman, M. Soler, N. Kirchner, J. van Slageren, R. Bircher, S. Parsons, H.-U. Guedel, J. Kortus, W. Wernsdorfer, G. Christou, and E. K. Brechin, *J. Am. Chem. Soc*. **2005**, *127*, 5572-5580.
352. The Search for 3d–4f Single-Molecule Magnets: Synthesis, Structure and Magnetic Properties of a [MnIII2DyIII2] Cluster. A. Mishra, W. Wernsdorfer, S. Parsons, G. Christou, and E. K. Brechin, *Chem. Commun*. **2005**, 2086-2088.
353. Single-Crystal 55Mn NMR Spectra of Two Mn12 Single-Molecule Magnets. A. G. Harter, N. E. Chakov, B. Roberts, R. Achey, A. Reyes, P. Kuhns, G. Christou, and N. S. Dalal, *Inorg. Chem*. **2005**, *44*, 2122-2124.
354. Synthesis, Structure and Magnetic Properties of a Trinuclear [MnIIIMnII2] Single-Molecule Magnet. R. T. W. Scott, S. Parsons, M. Murugesu, W. Wernsdorfer, G. Christou, and E. K. Brechin, *Chem. Commun*. **2005**, 2083-2085.
355. Magnetic Quantum Tunneling in the Single-Molecule Magnet Mn12-Acetate. E. del Barco, A. D. Kent, S. Hill, J. M. North, N. S. Dalal, E. M. Rumberger, D. N. Hendrickson, N. Chakov, and G. Christou, *J. Low Temp. Phys.* **2005**, *140*, 119-174.
356. New Polynuclear Manganese Clusters from the Use of the Hydrophobic Carboxylate Ligand 2,2-Dimethylbutyrate. N. E. Chakov, L. N. Zakharov, A. L. Rheingold, K. A. Abboud, and G. Christou, *Inorg. Chem*. **2005**, *44*, 4555-4567.
357. Single-Molecule Magnets: Structural Characterization, Magnetic Properties and 19F NMR Spectroscopy of a Mn12 Family Spanning Three Oxidation Levels. N. E. Chakov, M. Soler, W. Wernsdorfer,K. A. Abboud**,** and G. Christou, *Inorg. Chem*. **2005**, *44*, 5304-5321**.**
358. Quantum Phase Interference and Spin-Parity in Mn12 Single-Molecule Magnets. W. Wernsdorfer, N. E. Chakov, and G. Christou, *Phys. Rev. Lett*. **2005**, *95*, 037203 (1-4).
359. High-Nuclearity Homometallic Iron and Nickel Clusters: Fe22 and Ni24 Complexes from the Use of N-Methyldiethanolamine. D. Foguet-Albiol, K. A. Abboud, and G. Christou, *Chem. Commun*. **2005**, 4282-4284.
360. A Spectroscopic Comparison between Several High-Symmetry S=10 Mn12 Single-Molecule Magnets. S. Hill, N. Anderson, A. Wilson, S. Takahashi, N. E. Chakov, M. Murugesu, J. M. North, N. S. Dalal, and G. Christou, *J. Appl. Phys*. **2005**, *97*, 10M510 (1-3).
361. The Occurrence of Avalanches in a Single Crystal of Mn12-acetate. Y. Suzuki, M. P. Sarachik, N. Avraham, Y. Myasoedov, H. Shtrikman, E. Zeldov, E. M. Rumberger, D. N. Hendrickson, and G. Christou, *J. Appl. Phys*. **2005**, *97*, 10M517 (1-3).
362. [Mn12O12(OMe)2(O2CPh)16(H2O)2]2- Single-Molecule Magnets and Other Manganese Compounds from a Reductive Aggregation Procedure. A. J. Tasiopoulos, W. Wernsdorfer, K. A. Abboud, and G. Christou, *Inorg. Chem*. **2005**, *44*, 6324-6338**.**
363. Linking Centered Manganese Triangles into Larger Clusters: a [Mn32] Truncated Cube. R. T. W. Scott, S. Parsons, M. Murugesu, W. Wernsdorfer, G. Christou and E. K. Brechin, *Angew. Chem. Int. Ed*. **2005**, *45*, 6540-6543.
364. Single-Molecule Magnets: A Reductive Aggregation Route to New Types of Mn12 Complexes. P. King, W. Wernsdorfer, K. A. Abboud, and G. Christou, *Inorg. Chem.* **2005**, *44*, 8659-8669.
365. Local Measurements of Magnetization in Mn12 Crystals. N. Avraham, A. Stern, Yo. Suzuki, K. M. Mertes, M. P. Sarachik, E. Zeldov, Y. Myasoedov, H. Shtrikman, E. M. Rumberger, D. N. Hendrickson, N. E. Chakov, and G. Christou, *Phys. Rev. B*, **2005**, *72*, 144428 (1-6).
366. Initial Example of a Triangular Single-Molecule Magnet from Ligand-induced Structural Distortion of a [MnIII3O]7+ Complex. T. C. Stamatatos, D. Foguet-Albiol, C. C. Stoumpos, C. P. Raptopoulou, A. Terzis, W. Wernsdorfer, S. P. Perlepes, and G. Christou, *J. Am. Chem. Soc*. **2005**, *127*, 15380-15381.
367. Single-Molecule Magnets: A Molecular Approach to Nanoscale Magnetic Materials. G. Christou, *Polyhedron*, **2005**, *24*, 2065-2075.
368. A comparison between high-symmetry Mn12 single-molecule magnets in different ligand/solvent environments. S. Hill, N. Anderson, A. Wilson, S. Takahashi, K. Petukhov, N.E. Chakov, M. Murugesu, J.M. North, E. del Barco, A.D. Kent, N.S. Dalal, G. Christou, *Polyhedron*, **2005**, *24*, 2284-2292.
369. 55Mn NMR spectra of Mn12 single-molecule magnets: Single crystal versus aligned powder studies. A.G. Harter, N.E. Chakov, R. Achey, A. Reyes, P. Kuhns, G. Christou, N.S. Dalal, *Polyhedron*, **2005**, *24*, 2346-2349.
370. Magnetic and theoretical characterization of a ferromagnetic Mn(III) dimer. G. Rajaraman, E. C. Sañudo , M. Helliwell, S. Piligkos, W. Wernsdorfer, G. Christou, E. K. Brechin, *Polyhedron*, **2005**, *24*, 2450-2454.
371. Two isomeric [Mn12O12(OMe)2(O2CPh)16(H2O)2]2- single-molecule magnets and a MnIII polymer prepared by a reductive aggregation synthetic route. A.J. Tasiopoulos, W. Wernsdorfer, K. A. Abboud, G. Christou, *Polyhedron*, **2005**, *24*, 2505-512.
372. Single-molecule magnets: synthesis, structures and magnetic properties of Mn11 and Mn25 clusters. M. Murugesu, W. Wernsdorfer, K. A. Abboud, G. Christou, *Polyhedron*, **2005**, *24*, 2894-2899.
373. Propagation of Avalanches in Mn12-Acetate: Magnetic Deflagration. Y. Suzuki, M. P. Sarachik, E. M. Chudnovsky, S. McHugh, R. Gonzalez-Rubio, Nurit Avraham, Y. Myasoedov, E. Zeldov, H. Shtrikman, N. E. Chakov, and G. Christou, *Phys. Rev. Lett*. **2005**, *95*, 147201 (1-4).
374. Direct Determination of the Anisotropy and Exchange Splittings in the Dimeric Single-Molecule Magnet [Mn4O3Cl4(O2CEt)3(py)3]2∙8MeCN by Inelastic Neutron Scattering. A. Sieber, D. Foguet-Albiol, O. Waldmann, S. T. Ochsenbein, R. Bircher, G. Christou, F. Fernandez-Alonso, H. Mutka, and H. U. Guedel, *Inorg. Chem*. **2005**, *44*, 6771-6776.
375. Landau-Zener Tunneling in the Presence of Weak Intermolecular Interactions in a Crystal of Mn4 Single-Molecule Magnets. W. Wernsdorfer, S. Bhaduri, A. Vinslava, and G. Christou, *Phys. Rev. B*, **2005**, *72*, 214429 (1-13).
376. Field-Sweep-Rate Dependence of the Coercive Field of Single-Molecule Magnets: A Classical Approach with Applications to the Quantum Regime. W. Wernsdorfer, M. Murugesu, A. J. Tasiopoulos, and G. Christou, *Phys. Rev. B*, **2005**, 72, 212406 (1-4).
377. 1,1,1-Tris(hydroxymethyl)propane in Manganese Carboxylate Chemistry: Synthesis, Structure and Magnetic Properties of a Mixed-Valence [MnIII4MnII4] Cluster featuring the Novel [MnIII4MnII4(μ3-OR)6(μ2-OR)8]6+ Core. C. J. Milios, F. P. A. Fabbiani, S. Parsons, M. Murugesu, G. Christou and E. K. Brechin, *Dalton Trans*. **2006**, 351-356.
378. Resonant Tunneling in Truly Axial Symmetry Mn12 Single-Molecule Magnets: Sharp Crossover between Thermally Assisted and Pure Quantum Tunneling. W. Wernsdorfer, M. Murugesu, and G. Christou, *Phys. Rev. Lett*. **2006**, *96*, 057208 (1-4).
379. Mixed 3d/4d and 3d/4f Metal Clusters: Tetranuclear FeIII2MIII2 (MIII = Ln, Y) and MnIV2MIII2(M = Yb, Y) Complexes, and the First Fe/4f Single-Molecule Magnets. M. Murugesu, A. Mishra, W. Wernsdorfer, K. A. Abboud, and G. Christou, *Polyhedron*, **2006**, *25*, 613-625.
380. Largest Mixed Transition Metal/Actinide Cluster: A Bimetallic Mn/Th Complex with a [Mn10Th6O22(OH)2]18+ Core. A. Mishra, K. A. Abboud, and G. Christou, *Inorg. Chem*. **2006**, *45*, 2364-2366.
381. The Properties of the [Mn12O12(O2CR)16(H2O)4] Single-Molecule Magnets in Truly Axial Symmetry: [Mn12O12(O2CCH2Br)16(H2O)4]·4CH2Cl2. Chakov, N. E.; Lawrence, J.; Harter, A. G.; Hill, S. O.; Dalal, N. S.; Wernsdorfer, W.; Abboud, K. A.; Christou, G., *J. Am. Chem. Soc.* **2006**, *128*, 6975-6989.
382. New Mn12 single-molecule magnets from edge-sharing bioctahedra. M. Murugesu, W. Wernsdorfer, K. A. Abboud, E. K. Brechin, G. Christou, *Dalton Trans*. **2006**, 2285-2287.
383. Ligand-induced Distortion of a Tetranuclear Manganese Butterfly Complex. R. Bagai, K. A. Abboud and G. Christou, *Dalton Trans*. **2006**, 3306-3312.
384. 4-(Hydroxymethyl)pyridine and Pyrimidine in Manganese Benzoate Chemistry: Preparation and Characterization of Hexanuclear Clusters Featuring the {MnII4MnIII2(μ4-O)2}10+ Core. T. C. Stamatatos, D. Foguet-Albiol, S. P. Perlepes, C. P. Raptopoulou, A. Terzis, C. S. Patrickios, G. Christou, and A. J. Tasiopoulos, *Polyhedron*, **2006**, *25*, 1737-1746.
385. High-Nuclearity, High-Symmetry, High-Spin Molecules: A Mixed-Valence Mn10 Cage Possessing Rare *T* symmetry and an S = 22 Ground State. T. C. Stamatatos, K. A. Abboud, W. Wernsdorfer, and G. Christou, *Angew. Chem. Int. Ed.* **2006**, *45*, 4134-4137.
386. Making ‘Wheels’ and ‘Cubes’ from Triangles. R.T.W. Scott, C.J. Milios, A. Vinslava, D. Lifford, S. Parsons, W. Wernsdorfer, G. Christou,and E.K. Brechin, *Dalton Trans*. **2006**, 3161-3163.
387. A Family of [Mn6] Complexes Featuring Tripodal Ligands. C. J. Milios, M. Manoli, G. Rajaraman, A. Mishra, L. E. Budd, F. White, S. Parsons, W. Wernsdorfer, G. Christou, and E. K. Brechin, *Inorg. Chem*. **2006**, *45*, 6782-6793.
388. Microwave-Assisted Synthesis of a Hexanuclear MnIII Single-Molecule Magnet. C. J. Milios, A. Vinslava, A. G. Whittaker, S. Parsons, W. Wernsdorfer, G. Christou, S. P. Perlepes, and E. K. Brechin, *Inorg. Chem*. **2006**, *45*, 5272-5274.
389. Reversible Size Modification of Iron and Gallium Molecular Wheels: a Ga10 ‘Gallic Wheel’, and Large Ga18 and Fe18 Wheels. P. King, T. C. Stamatatos, K. A. Abboud and G. Christou, *Angew. Chem. Int. Ed*. **2006**, *45*, 7379-7383.
390. Pressure Dependence of the Exchange Interaction in the Dimeric Single-Molecule Magnet [Mn4O3Cl(O2CEt)3(py)3]2 from Inelastic Neutron Scattering. A. Sieber, D. Foguet-Albiol, O. Waldmann, S. T. Ochsenbein, G. Carver,1 H. Mutka, F. Fernandez-Alonso, M. Mezouar, H. P. Weber, G. Christou, and H. U. Güdel, *Phys. Rev. B*, **2006**, *74*, 024405.
391. A Family of 3D Coordination Polymers Composed of Mn19 Magnetic Units. E. E. Moushi, T. C. Stamatatos, W. Wernsdorfer, V. Nastopoulos, G. Christou and A. J. Tasiopoulos, *Angew. Chem. Int. Ed*. **2006**, *45*, 7722-7725.
392. [Mn7O5(OR)2(O2CPh)9(terpy)] (R = Me, CH2Ph) Complexes with a Fused Cubane/Butterfly Core and an S = 6 Ground State Spin. A. Mishra, W. Wernsdorfer, K. A. Abboud, and G. Christou, *Inorg. Chem.* **2006**, *45*, 10197-10206.
393. A Rare Ferromagnetic Manganese(III) Cube. C. J. Milios, A. Prescimone, A. Mishra, S. Parsons, W. Wernsdorfer, G. Christou, S.P. Perlepes, and E.K. Brechin, *Chem. Commun*. **2007**, 153-155.
394. Synthetic Routes to a Family of Mn-Ce Heterometallic Clusters. A. J. Tasiopoulos, A. Mishra, and G. Christou, *Polyhedron*, **2007**, *26*, 2183-2188.
395. A Family of Mixed-Valent MnIVMnIII6MnII6 Tridecanuclear Clusters, and their Magnetostructural Correlation. C. Lampropoulos, M. Murugesu, K. A. Abboud, and G. Christou, *Polyhedron*, **2007**, *26*, 2129-2134.
396. ‘Spin Tweaking’ of a High Spin Molecule: A New Mn25 Single-Molecule Magnet with an *S* = 61/2 Ground State. T. C. Stamatatos, K. A. Abboud, W. Wernsdorfer, and G. Christou, *Angew. Chem. Int. Ed*., **2007**, 46, 884-888.
397. EPR Characterization of Half-Integer-Spin Iron Single-Molecule Magnets. S. Datta, A. Betancur-Rodriguez, S.-C. Lee, S. O. Hill, D. Foguet-Albiol, R. Bagai, and G. Christou, *Polyhedron*, **2007**, *26*, 22243-2246.
398. A Single-Molecule Magnet with a “Twist”. C. J. Milios, A. Vinslava, P. A. Wood, S. Parsons, W. Wernsdorfer, G. Christou, S. P. Perlepes, and E. K. Brechin, *J. Am. Chem. Soc*. **2007**, *129*, 8-9.
399. High-Nuclearity Ce/Mn and Th/Mn Cluster Chemistry: Preparation of Complexes with [Ce4Mn10O10(OMe)6]18+ and [Th6Mn10O22(OH)2]18+ Cores. A. Mishra, A. J. Tasiopoulos, W. Wernsdorfer, K. A. Abboud, and G. Christou, *Inorg. Chem*. **2007**, *46*, 3105-3115.
400. A High-Spin Molecular Wheel from Self-Assembled Mn rods. M. Manoli,A. Prescimone, A. Mishra,S. Parsons,G. Christouand E. K. Brechin, *Dalton Trans*., **2007**, 532-534.
401. Heteronuclear Mn–Ca/Sr complexes, and Ca/Sr EXAFS spectral comparisons with the Oxygen-Evolving Complex of Photosystem II. A. Mishra, J. Yano, Y. Pushkar, V. K. Yachandra, K. A. Abboud, and G. Christou, *Chem. Commun*. **2007**, 1538-1540.
402. New Mn3 Structural Motifs in Manganese Single-Molecule Magnetism from the Use of 2-pyridyloximate ligands. T. C. Stamatatos, D. Foguet-Albiol, A. Masello, C. C. Stoumpos, C. P. Raptopoulou, A. Terzis, W. Wernsdorfer, G. Christouand S. P. Perlepes, *Polyhedron*, **2007**, *26*, 2165-2168.
403. Four copper(II) pyrazolido complexes derived from reactions of 3{5}-substituted pyrazoles with CuF2 or Cu(OH)2. Q. F. Mokuolu,D. Foguet-Albiol, L. F. Jones, J. Wolowska, R. M. Kowalczyk, C. A. Kilner, G. Christou, P. C. McGowan, and M. A. Halcrow, *Dalton Trans*. **2007**, 1392-1399.
404. New Derivatives of an Enneanuclear Mn SMM. M. Murugesu, W. Wernsdorfer, G. Christou, and E. K. Brechin, *Polyhedron*, **2007**, *26*, 1845-1848.
405. New Octa- and Dodecametallic Mixed-Valent Mn Rods. M. Manoli, C. J. Milios, A. Mishra, G. Christou, and E. K. Brechin, *Polyhedron*, **2007**, *26*, 1923-1926.
406. A Record Anisotropy Barrier for a Single-Molecule Magnet. C. J. Milios, A. Vinslava, W. Wernsdorfer, S. Moggach, S. Parsons, S. P. Perlepes, G. Christou, and E. K. Brechin, *J. Am. Chem. Soc*. **2007**, *129*, 2754-2755.
407. Ferromagnetically-coupled Decanuclear, Mixed-valence [Mn10O4(N3)4(hmp)12]2+ [hmpH = 2-(hydroxymethyl)pyridine] Clusters with Rare *T* Symmetry and a *S*=22 Ground State. T.C. Stamatatos, K.A. Abboud, W. Wernsdorfer, G. Christou, *Polyhedron*, **2007**, *26*, 2042-2046.
408. A Large [Mn10Na]4 Loop of Four Linked Mn10 Loops. Moushi, E. E.; Lampropoulos, C.; Wernsdorfer, W.; Nastopoulos, V.; Christou, G.; Tasiopoulos, A. J., *Inorg. Chem*. **2007**, *46*, 3795-3797.
409. Diversity of New Structural Types in Polynuclear Iron Chemistry with a Tridentate N,N,O Ligand. Bagai, R.; Datta, S.; Betancur-Rodriguez, A.; Abboud, K. A.; Hill, S.; Christou, G., *Inorg. Chem*. **2007**, *46*, 4535-4547.
410. Spin Switching via Targeted Structural Distortion. Milios, C. J.; Vinslava, A.; Wernsdorfer, W.; Prescimone, A.; Wood, P. A.; Parsons, S.; Perlepes, S. P.; Christou, G.; Brechin, E. K., *J. Am. Chem. Soc*. **2007**, *129*, 6547-6561.
411. Fabrication of Nanogapped Single-electron Transistors for Transport Studies of Individual Single-Molecule Magnets. J. J. Henderson, C. M. Ramsey, E. del Barco, A. Mishra and G. Christou, *J. Appl. Phys*. **2007**, *101*, 09E102(1-3).
412. A New N,N,O Chelate for Transition Metal Chemistry: Fe5 and Fe6 Clusters from the Use of 6-hydroxymethyl-2,2'-bipyridine (hmbpH). Bagai, R.; Abboud, K. A.; Christou, G. *Inorg. Chem*., **2007**, *46*, 5567-5575.
413. A New Mn25 Single-Molecule Magnet with an S = 61/2 Ground State arising from Ligand-induced ‘Spin-Tweaking' in a High-spin Molecule. Stamatatos, T. C.; Abboud, K. A.; Wernsdorfer, W.; Christou, G., *Polyhedron*, **2007**, *26*, 2095-2100.
414. A Family of Ferrocene-rich Mn7, Mn8 and Mn13 Clusters. Masello, A.; Murugesu, M.; Abboud, K. A.; Christou, G. *Polyhedron*, **2007**, *26*, 2276-2280.
415. High-frequency EPR Characterization of a Triangular Mn3 Single-Molecule Magnet. Lee, S.-C.; Stamatatos, T.C.; Hill, S.; Perlepes, S.P.; Christou, G.*Polyhedron*, **2007**, *26*, 2225-2229.
416. 55Mn Nuclear Spin Relaxation in the Truly Axial Single-Molecule Magnet Mn12-t-butylacetate Thermally Activated down to 400 mK. Harter, A. G.; Lampropoulos, C.; Murugesu, M.; Kuhns, P.; Reyes, A.; Christou, G.; Dalal, N. S., *Polyhedron*, **2007**, *26*, 2320-2324.
417. Turning up the Spin, turning on Single-Molecule Magnetism: from S = 1 to S = 7 in a [Mn8] Cluster via Ligand-induced Structural Distortion. Milios, C. J.; Inglis, R.; Vinslava, A.; Prescimone, A.; Parsons, S.; Perlepes, S. P.; Christou, G.; Brechin, E. K., *Chem. Commun*. **2007**, 2738-2740.
418. ‘Switching on’ the Properties of Single-Molecule Magnetism in Triangular Manganese(III) Complexes. T. C. Stamatatos, D. Foguet-Albiol, S.-C. Lee, C. C. Stoumpos, C. P. Raptopoulou, A. Terzis, W. Wernsdorfer, S. O. Hill, S. P. Perlepes, and G. Christou., *J. Am. Chem. Soc*. **2007**, *129*, 9484-9499.
419. Two Frustrated, Bitetrahedral Single-Molecule Magnets. Milios, C. J.; Gass, I. A.; Vinslava, A.; Budd, L.; Parsons, S.; Wernsdorfer, W.; Perlepes, S. P.; Christou, G.; Brechin, E. K., *Inorg. Chem*. **2007**, *46*, 6215-6217.
420. A Discrete Fe18 ‘Molecular Chain’. R. Bagai, K. A. Abboud, and G. Christou. *Chem. Commun*. **2007**, 3359-3361.
421. ‘Squaring the Circle’: Molecular Squares and Rectangles from Chelate-induced Structural Transformations of Known Fe10 and New Fe12 Ferric Wheels. T. C. Stamatatos, A. G. Christou, C. M. Jones, B. J. O’Callaghan, K. A. Abboud, T. A. O’Brien,and G. Christou. *J. Am. Chem. Soc*. **2007**, *129*, 9840-9841.
422. The Highest Nuclearity Metal Oxime Clusters: Ni14 and Ni12Na2 Complexes from the Use of 2-Pyridinealdoximate and Azide Ligands. T. C. Stamatatos, K. A. Abboud, S. P. Perlepes, and G. Christou. *Dalton Trans*. **2007**, 3861-3863.
423. High-Spin Mn Wheels. Manoli, M., Prescimone, A., Bagai, R., Mishra, A., Murugesu, M., Parsons, S., Wernsdorfer, W., Christou, G., Brechin, E.K., *Inorg. Chem.* **2007**, *46,* 6968-6979.
424. Enhancing SMM properties in a family of [Mn6] clusters. Milios, C.J.; Inglis, R.; Bagai, R.; Wernsdorfer, W.; Collins, A.; Moggach, S.; Parsons, S.; Perlepes, S.P.; Christou, G.; Brechin, E.K., *Chem. Commun*. **2007**, 3476-3478.
425. The use of methylsalicyloxime in manganese chemistry: a [MnIII3] triangle and its oxidation to a [MnIV4CeIII2] rod**.** Milios, C.J.; Wood, P.A.; Parsons, S.; Foguet-Albiol, D.; Lampropoulos, C.; Christou, G.; Perlepes, S.P.; Brechin, E.K*., Inorg. Chim. Act* **2007**, *360*, 3932-3940.
426. Toward a Magnetostructural Correlation for a Family of Mn6 SMMs**.** Milios, C.J.; Inglis, R.; Vinslava, A.; Bagai, R.; Wernsdorfer, W.; Parsons, S.; Perlepes, S.P.; Christou, G.; Brechin, E.K., *J. Am. Chem. Soc.* **2007**, *129*,12505-12511.
427. Synthesis and Characterization of a Mn22 Single-Molecule Magnet and a [Mn22]n Single-Chain Magnet. Brockman, J.T.; Stamatatos, T.C.; Wernsdorfer, W.; Abboud, K.A.; Christou, G*., Inorg. Chem*. **2007**, *46,* 9160-9171.
428. Exchange-Biased Dimers of Single-Molecule Magnets in OFF and ON States**.** Bagai, R.; Wernsdorfer, W.; Abboud, K.A.; Christou, G., *J. Am.Chem. Soc*. **2007**, *129*, 12918-12919.
429. Mixed transition metal-lanthanide complexes at high oxidation states: heteronuclear CeIVMnIV clusters**.** Tasiopoulos, A.J.; Milligan, P.L., Jr.; Abboud, K.A.; O'Brien, T.A.; Christou, G.,*Inorg. Chem*. **2007**, *46*, 9678-9691.
430. A Fourth Isolated Oxidation Level of the [Mn12O12(O2CR)16(H2O)4] Family of Single-Molecule Magnets. Bagai, R.; Christou, G*., Inorg Chem*. **2007**, *46*, 10810-10818.
431. Studies of a linear single-molecule magnet. Prescimone, A.; Wolowska, J.; Rajaraman, G.; Parsons, S.; Wernsdorfer, W.; Murugesu, M.; Christou, G.; Piligkos, S.; McInnes, E.J.L.; Brechin, E.K., *Dalton Trans.* **2007,** 5282-5289.
432. Effect of quantum tunneling on the ignition and propagation of magnetic avalanches in Mn12 acetate**.** McHugh, S.; Jaafar, R.; Sarachik, M. P.; Myasoedov, Y.; Finkler, A.; Shtrikman, H.; Zeldov, E.; Bagai, R.; Christou, G., *Phys. Rev. B* **2007**, *76*, 172410/1-172410/4.
433. Spatial determination of magnetic avalanche ignition points. Jaafar, R.; McHugh, S.; Suzuki, Y.; Sarachik, M. P.; Myasoedov, Y.; Zeldov, E.; Shtrikman, H.; Bagai, R.; Christou, G., J. Magnetism and Magnetic Mat. **2008**, *320,* 695-698.
434. Unusual Structural Types in Manganese Cluster Chemistry from the Use of N,N,N',N'-Tetrakis(2-hydroxyethyl)ethylenediamine: Mn8, Mn12, and Mn20 Clusters.Bagai, R.; Abboud, K.A.; Christou, G., *Inorg. Chem*. **2008**, *47*, 621-631.
435. On the origin of ferromagnetism in oximato-based [Mn3O]7+ triangles. Cano, J.; Cauchy, T.; Ruiz, E.; Milios, C.; Stoumpos, C.C.; Stamatatos, T.C.; Perlepes, S.P.; Christou, G.; Brechin, E.K. *Dalton Trans.* **2008,** 234-240
436. Employment of 2,6-Diacetylpyridine Dioxime as a New Route to High Nuclearity Metal Clusters: Mn6 and Mn8 Complexes. Stamatatos, T.C.; Luisi, B.S.; Moulton, B.; Christou, G., *Inorg. Chem*. **2008**, *47*, 1134-1144.
437. Mixed valency in polynuclear MnII/MnIII, MnIII/MnIV and MnII/MnIII/MnIV clusters: a foundation for high-spin molecules and single-molecule magnets**.** Stamatatos, T.C.; Christou, G., *Philos. Trans. Royal Soc.,* **2008**, 366, 113-125.
438. Spin dynamics in single-molecule magnets combining surface acoustic waves and high-frequency electron paramagnetic resonance.Macia, F.; Lawrence, J.; Hill, S.; Hernandez, J. M.; Tejada, J.; Santos, P. V.; Lampropoulos, C.; Christou, G., *Phys. Rev. B* **2008**, *77*, 020403/1-020403/4.
439. Single-Molecule Magnetism Properties of the First Strontium-Manganese Cluster [SrMn14O11(OMe)3(O2CPh)18(MeCN)2].Mishra, A.; Pushkar, Y.; Yano, J.; Yachandra, V.K.; Wernsdorfer, W.; Abboud, K.A.; Christou, G., *Inorg. Chem*. **2008**, *47*, 1940-1948.
440. Unusual Structural Types in Polynuclear Iron Chemistry from the Use of N,N,N',N'-Tetrakis(2-hydroxyethyl)ethylenediamine (edteH4): Fe5, Fe6, and Fe12 Clusters. Bagai, R.; Daniels, M.R.; Abboud, K.A.; Christou, G., *Inorg. Chem.* **2008**, *47*, 3318-3327.
441. Single-Molecule Magnets: A Family of MnIII/CeIV Complexes with a [Mn8CeO8]12+ Core. Mishra, A.; Tasiopoulos, A.J.; Wernsdorfer, W.; Moushi, E.E.; Moulton, B.; Zaworotko, M.J.; Abboud, K.A.; Christou, G., *Inorg. Chem*. **2008**, *47*, 4832-4843.
442. New Fe4, Fe6, and Fe8 Clusters of Iron(III) from the Use of 2-Pyridyl Alcohols: Structural, Magnetic, and Computational Characterization. Taguchi, T.; Stamatatos, T.C.; Abboud, K.A.; Jones, C.M.; Poole, K.M.; O'Brien, T.A.; Christou, G*.,**Inorg. Chem.* **2008***, 47,* 4095-4108*.*
443. High-Spin Mn4 and Mn10 Molecules: Large Spin Changes with Structure in Mixed-Valence MnII4MnIII6 Clusters with Azide and Alkoxide-Based Ligands. Stamatatos, T. C.; Poole, K. M.; Abboud, K.A.; Wernsdorfer,W.; O’Brien,T.A.; Christou, G. *Inorg. Chem*. **2008**, *47*, 5006-5021
444. Large Mn25 Single-Molecule Magnet with Spin *S* = 51*/*2: Magnetic and High-Frequency Electron Paramagnetic Resonance Spectroscopic Characterization of a Giant Spin State. M. Murugesu, S. Takahashi, A. Wilson, K. A. Abboud, W. Wernsdorfer, S. Hill, and G. Christou, *Inorg. Chem.* **2008***, 47,* 4095-4108*.*
445. Covalently Linked Dimers of Clusters: Loop- and Dumbbell-Shaped Mn24 and Mn26 Single-Molecule Magnets. T. C. Stamatatos, K. A. Abboud, W. Wernsdorfer, G. Christou. *Angew. Chem. Int. Ed*., **2008**, *47*, 6694-6698.
446. High-Yield Syntheses and Reactivity Studies of Fe10 “Ferric Wheels”: Structural, Magnetic, and Computational Characterization of a Star-Shaped Fe8 Complex. T. C. Stamatatos, A. G. Christou, S. Mukherjee, K. M. Poole, C. Lampropoulos, K. A. Abboud, T. A. O’Brien, and G. Christou, *Inorg. Chem.* **2008***, 47*, 9021-9034*.*
447. Spin Maximization: Switching of the Usual *S* = 11 State of MnII4MnIII3 Disklike Complexes to the Maximum *S* = 16. T. C. Stamatatos, K. M. Poole, D. Foguet-Albiol, K. A. Abboud, T. A. O’Brien, and G. Christou, *Inorg. Chem.* **2008***, 47*, 6593-6595.
448. Synthesis, Magnetism and High-Frequency EPR Spectroscopy of a Family of Mixed-Valent Cuboctahedral Mn13 Complexes with 1,8-Naphthalenedicarboxylate Ligands. C. Lampropoulos, C. Koo, S. O. Hill, K. Abboud, and G. Christou, *Inorg. Chem*. **2008**, *47*, 11180-11190.
449. High Nuclearity Single-Molecule Magnets: A Mixed-Valence Mn26 Cluster containing the Di-2-pyridylketone Diolate Dianion. T. C. Stamatatos, V. Nastopoulos, A. J. Tasiopoulos, E. E. Moushi, W. Wernsdorfer, S.P. Perlepes, and G. Christou, *Inorg. Chem*. **2008**, *47*, 10081-10089.
450. Preparation and Characterization of New Mn6 and Mn8 Clusters obtained from the in situ Formation of an Unprecedented Octadentate Ligand. Stamatatos, T. C.; Abboud, K. A.; Christou, G. *J. Mol. Struct*. **2008**, *890*, 263-271.
451. Unusual Structural Types in Nickel Cluster Chemistry from the Use of Pyridyl Oximes: Ni5, Ni12Na2 and Ni14 Clusters. T. C. Stamatatos, A. Escuer, K. A. Abboud, C. P. Raptopoulou, S. P. Perlepes, and G. Christou, *Inorg. Chem*. **2008**, *47*, 11825-11838.
452. A New MnII4MnIII4 Cluster from the Use of methyl 2-pyridyl ketone oxime in Manganese Carboxylate Chemistry: Synthetic, Structural and Magnetic Studies. Stoumpos, C. C.; Stamatatos, T. C.; Psycharis, V.; Raptopoulou, C. P.; Christou, G.; Perlepes, S. P. *Polyhedron* **2008**, *27*, 3703-3709.
453. Influence of the Dzyaloshinskii-Moriya Exchange Interaction on Quantum Phase Interference of Spins. Wernsdorfer, W.; Stamatatos, T.C.; Christou, G. *Phys. Rev. Lett*. **2008**, *101*, 237204(1-4)
454. Control of the Inhomogeneity Degree by Magnetic Dilution in Crystals of Antiferromagnetic Molecular Rings. Henderson, J. J.; Ramsey, C. M.; del Barco, E.; Stamatatos, T. C.; Christou, G. *Phys. Rev. B* **2008**, *78*, 214413(1-5).
455. The largest single-strand molecular wheel: Ga20 from a targeted, diolate-induced size modification of the Ga10 ‘gallic wheel’. T. C. Stamatatos, S. Mukherjee,K. A. Abboud, and G. Christou. *Chem. Commun*. **2009**, 62-64.
456. Initial Use of Dioximate Ligands in 3d/4f Cluster Chemistry: Synthesis, Structure, and Magnetic Studies of an Unusual [GdIII2MnIVO]8+ Complex. Lampropoulos, C.; Stamatatos, T.C.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2009**, *48*, 429-431.
457. A Mononuclear MnIII/‘bis-tris' Complex and its Conversion to a Mixed-Valence MnII/III5 Cluster. Stamatatos, T. C.; Abboud, K. A.; Christou, G. *Dalton Trans* **2009**, 41-50.
458. {Mn6}n Single-Chain Magnet Bearing Azides and Di-2-pyridylketone-Derived Ligands. Stamatatos, T.C.; Abboud, K.A.; Wernsdorfer, W.; Christou, G. *Inorg.Chem*. **2009**, *48*, 807-809
459. A Nontwisted, Ferromagnetically Coupled MnIII3O Triangular Complex from the Use of 2,6-Bis(hydroxymethyl)-p-cresol. Lampropoulos, C.; Abboud, K. A.; Stamatatos, T. C.; Christou, G. *Inorg. Chem*. **2009**, *48*, 813-815.
460. Employment of methyl 2-pyridyl ketone oxime in manganese non-carboxylate chemistry: MnII2MnIV and MnII2MnIII6 complexes. Stoumpos, C. C.; Stamatatos, T. C.; Sartzi, H.; Roubeau, O.; Tasiopoulos, A. J.; Nastopoulos, V.; Teat, S. J.; Christou, G.; Perlepes, S. P. *Dalton Trans*. **2009**, 1004-1015.
461. Azide Groups in Higher Oxidation State Manganese Cluster Chemistry: From Structural Aesthetics to Single-Molecule Magnets. T. C. Stamatatos and G. Christou, *Inorg. Chem*. **2009**, *48*, 3308-3322.
462. A Mn17 Octahedron with a Giant Ground-State Spin: Occurrence in Discrete Form and as Multidimensional Coordination Polymers. Moushi, E. E.; Stamatatos, T. C.; Wernsdorfer, W.; Nastopoulos, V.; Christou, G.; Tasiopoulos, A. J. *Inorg. Chem*. **2009**, *48*, 5049-5051.
463. The *Drosophila* of Single-Molecule Magnetism: [Mn12O12(O2CR)16(H2O)4]. R. Bagai and G. Christou, *Chem. Soc. Rev*. **2009**, *38*, 1011-1026.
464. Enhancing the Quantum Properties of Ln-Mn Single-Molecule Magnets: Initial Observation of Quantum Tunnelling Steps in the Hysteresis Loops of a Mn12Gd Cluster. T. C. Stamatatos, S. J. Teat, W. Wernsdorfer, and G. Christou, *Angew. Chem. Int. Ed*. **2009**, *48*, 521-524.
465. Experimental determination of the dipolar field in Mn12-acetate. McHugh, S.; Jaafar, R.; Sarachik, M. P.; Myasoedov, Y.; Shtrikman, H.; Zeldov, E.; Bagai, R.; Christou, G. *Phys. Rev. B*, **2009**, *79*, 052404(1-3).
466. Effects of quantum mechanics on the deflagration threshold in the molecular magnet Mn12 acetate. Macia, F.; Hernandez, J. M.; Tejada, J.; Datta, S.; Hill, S.; Lampropoulos, C.; Christou, G.*Phys. Rev. B*, **2009**, *79*, 092403(1-4).
467. Quantum Phase Interference and Néel-Vector Tunneling in Antiferromagnetic Molecular Wheels. Waldmann, O.; Stamatatos, T.C.; Christou, G.; Gudel, H.U.; Sheikin, I.; Mutka, H. *Phys. Rev. Lett*. **2009**, *102*, 157202(1-4)
468. Initial employment of α-benzoin oxime as a route to high-nuclearity metal clusters: decanuclear CuII complexes with a wheel topology. Vlahopoulou, G. C.; Stamatatos, T. C.; Psycharis, V.; Perlepes, S. P.; Christou, G. *Dalton Trans*. **2009**, 3646-3649.
469. Azide groups in high oxidation state Mn carboxylate chemistry: a new Mn11 complex and its conversion to a Mn25 azide complex with Me3SiN3. Stamatatos, T. C.; Vinslava, A.; Abboud, K. A.; Christou, G. *Chem. Commun*. **2009**, 2839-2841.
470. Intensely Colored Mixed-Valence Iron(II) Iron(III) Formate Analogue of Prussian Blue Exhibits Neel N-Type Ferrimagnetism. Hagen, K. S.; Naik, S. G.; Huynh, B. H.; Masello, A.; Christou, G. *J. Am. Chem. Soc*. **2009**, *131*, 7516-7517.
471. High-spin molecules: A mixed-valence Mn6 octahedron with an *S* =11 ground state. Stamatatos, T.C.; Pringouri, K.V.;Abboud, K.A.; Christou,G. *Polyhedron*, **2009**, *28*, 1624-1627
472. 1-D coordination polymers consisting of a high-spin Mn17 octahedral unit. Moushi, E. E.; Stamatatos, T. C.; Nastopoulos, V.; Christou, G.; Tasiopoulos, A. J. *Polyhedron*, **2009**, *28*, 1814-1817.
473. Old ligands with new coordination chemistry: A Mn17Na cluster bearing triethanolamine and azide groups and exhibiting slow magnetization relaxation. Stamatatos, T. C.; Abboud, K. A.; Christou, G. *Polyhedron*, **2009**, *28*, 1880-1882.
474. A convenient MnIII starting material for the synthesis of homo- and heterometallic manganese carboxylate clusters: Mn9 and Mn10-xFex complexes. Lampropoulos, C.; Stamatatos, T. C.; Abboud, K. A.; Christou, G. *Polyhedron*, **2009**, *28*, 1958-1964.
475. Tuning magnetic avalanches in the molecular magnet Mn12-acetate. McHugh, S.; Wen, Bo; Ma, Xiang; Sarachik, M. P.; Myasoedov, Y.; Zeldov, E.; Bagai, R.; Christou, G. *Phys. Rev. B*., **2009**, *79*, 174413(1-7).
476. Magnetic avalanches of minor fast-relaxing species of Mn12-acetate. McHugh, S.; Jaafar, R.; Sarachik, M. P.; Myasoedov, Y.; Finkler, A.; Zeldov, E.; Bagai, R.; Christou, G. *Phys. Rev. B*, **2009**, *80*, 024403(1-8).
477. A Caveat for Single-Molecule Magnetism: Non-linear Arrhenius Plots. Lampropoulos, C.; Hill, S.; Christou, G. *ChemPhysChem*, **2009**, *10*, 2397-2400.
478. A new family of octanuclear Mn complexes with a rod-like topology. Moushi, E. E.; Stamatatos, T. C.; Nastopoulos, V.; Christou, G.; Tasiopoulos, A. J. *Polyhedron*, **2009**, *28*, 3203-3208.
479. Mn4, Mn6, and Mn11 Clusters from the Use of Bulky Diphenyl(pyridine-2-yl)methanol. T. Taguchi, M. R. Daniels, K. A. Abboud, and G. Christou, *Inorg. Chem*. **2009**, *48*, 9325–9335.
480. Crystal lattice desolvation effects on the magnetic quantum tunneling of single-molecule magnets. Redler, G.; Lampropoulos, C.; Datta, S.; Koo, C.; Stamatatos, T. C.; Chakov, N. E.; Christou, G.; Hill, S. *Phys. Rev. B*, **2009**, *80*, 094408(1-9).
481. Spin Maximization from S = 11 to S = 16 in Mn7 Disk-Like Clusters: Spin Frustration Effects and Their Computational Rationalization. Stamatatos, T.C.; Foguet-Albiol, D.; Poole, K.M.; Wernsdorfer, W.; Abboud, K. A.; O'Brien, T. A.; Christou, G. *Inorg. Chem*. **2009**, *48*, 9831-9845.
482. Anisotropy barrier reduction in fast-relaxing Mn12 single-molecule magnets. Hill, S.; Murugesu, M.; Christou, G. *Phys. Rev. B*, **2009**, *80*, 174416(1-14).
483. Alignment of magnetic anisotropy axes in crystals of Mn12 acetate and Mn12-tBuAc molecular nanomagnets: Angle-dependent ac susceptibility study. Burzurí, E.; Carbonera, C.; Luis, F.; Ruiz-Molina, D.; Lampropoulos, C.; Christou, G. *Phys. Rev. B*, **2009**, *80*, 224428(1-4).
484. Mn7 and Mn12 Clusters From Use of 2-(Pyridine-2-yl)propan-2-ol: A New Half-Integer Single-Molecule Magnet. Taguchi, T.; Wernsdorfer, W.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2010**, *49*, 199–208.
485. A variety of new tri- and tetranuclear Mn–Ln and Fe–Ln (Ln = lanthanide) complexes. Mukherjee, S.; Daniels, M. R.; Bagai, R.; Abboud, K. A.; Christou, G.; Lampropoulos C. *Polyhedron* **2010**, *29*, 54-65.
486. Binding of Higher Alcohols onto Mn12 Single-Molecule Magnets (SMMs): Access to the Highest Barrier Mn12 SMM. Lampropoulos, C.; Redler, G.; Data, S.; Abboud, K. A.; Hill, S.; Christou, G. *Inorg. Chem*. **2010**, *49*, 1325-1336.
487. α-Benzoin Oxime in Higher Oxidation State 3d Metal Cluster Chemistry: Structural and Magnetic Study of a New MnIII9 Complex. Koumousi, E. S.; Manos, M. J.; Lampropoulos, C.; Tasiopoulos, A. J.; Wernsdorfer, W.; Christou, G.; Stamatatos, T. C. *Inorg. Chem*. **2010**, *49*, 3077-3079.
488. Molecular Wheels as Nanoporous Materials: Differing Modes of Xenon Diffusion through Ga10 and Ga18 Wheels of Different Diameters Probed by 129Xe NMR Spectroscopy. C.-Y. Cheng, T. C. Stamatatos, G. Christou, and C. R. Bowers. *J. Am. Chem. Soc*., **2010**, *132*, 5387-5393.
489. An Alcoholysis Route to a Cu16 Cluster, and the Influence of the Alcohol. Liu, T.-F; Stamatatos, T. C.; Abboud, K. A.; Christou, G. *Dalton Trans*. **2010**, *39*, 3554-3556.
490. The Highest-Nuclearity Manganese/Oximate Complex: An Unusual MnII/III15 Cluster with an S = 6 Ground State. Alexandropoulos, D. I.; Papatriantafyllopoulou, C.; Aromi, G.; Roubeau, O.; Teat, S. J.; Perlepes, S. P.; Christou, G.; Stamatatos, T. C. *Inorg. Chem*. **2010**, *49*, 3962-3964.
491. A Mn15 Single-Molecule Magnet consisting of a Supertetrahedron incorporated in a Loop. Moushi, E. E.; Masello, A.; Wernsdorfer, W.; Nastopoulos, V.; Christou, G.; Tasiopoulos, A. J. *Dalton Trans*. **2010**, *39*, 4978-4985.
492. New Mixed-Valence MnII,III6 Complexes Bearing Oximato and Azido Ligands: Synthesis, and Structural and Magnetic Characterization. Lampropoulos, C.; Stamatatos, T.C.; Manos, M. J.; Tasiopoulos, A.J.; Abboud, K.A.; Christou, G. *Eur. J. Inorg. Chem*. **2010**, *15*, 2244-2253
493. Pressure Dependence of the Magnetization in Mn7 Single-Molecule Magnets. D. M. Pajerowski, T. C. Stamatatos, S. Mukherjee, E. S. Knowles, M. Bencomo, M. W. Meisel, G. Christou, *Polyhedron* **2010**, *29*, 2462–2464.
494. Realization of Random-field Ising Ferromagnetism in a Molecular Magnet. B. Wen, P. Subedi, L. Bo, Y. Yeshurun, M. P. Sarachik, A. D. Kent, A. J. Millis, C. Lampropoulos, and G. Christou, *Phys. Rev. B*, **2010**, *82*, 014406(1-6).
495. Unusual Fe9 and Fe18 Structural Types from the Use of 2,6-Pyridinedimethanol in FeIII Cluster Chemistry. T. Taguchi, M. S. Thompson, K. A. Abboud and G. Christou, *Dalton Trans*. **2010**, *39*, 9131-9139.
496. A Family of 3-D Coordination Polymers Composed of Mixed-Valence Mn6 Octahedra within Na4 Tetrahedra. T. C. Stamatatos, K. A. Abboud, and G. Christou, *J. Clus. Sci*. **2010**, *21*, 485-501.
497. Nickel/Lanthanide Single-Molecule Magnets: {Ni3Ln} "Stars" with a Ligand Derived from the Metal-Promoted Reduction of Di-2-pyridyl Ketone under Solvothermal Conditions. Efthymiou, C. G.; Stamatatos, T. C.; Papatriantafyllopoulou, C.; Tasiopoulos, A. J.; Wernsdorfer, W.; Perlepes, S. P.; Christou, G. *Inorg. Chem*. **2010**, *49*, 9737-0739.
498. A High-Nuclearity 3d/4f Metal Oxime Cluster: An Unusual Ni8Dy8 "Core-Shell" Complex from the Use of 2-Pyridinealdoxime. Papatriantafyllopoulou, C.; Stamatatos, T. C.; Efthymiou, C. G.; Cunha-Silva, L.; F. A. Almeida-Paz.; Perlepes, S.P.; Christou, G. *Inorg. Chem*. **2010**, *49*, 9743-9745.
499. On-chip SQUID measurements in the presence of high magnetic fields.Chen, L.; Wernsdorfer, W.; Lampropoulos, C.; Christou, G.; Chiorescu, I. *Nanotech*. **2010**, *21*, 405504 (1-4).
500. Mn8 and Mn16 Clusters from the Use of 2-(Hydroxymethyl)pyridine, and Comparison with the Products from Bulkier Chelates: A New High Nuclearity Single-Molecule Magnet. Taguchi, T.; Wernsdorfer, W.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2010**, *49*, 10579-10589.
501. Experimental determination of the Weiss temperature of Mn12-ac and Mn12-ac-MeOH. Li, S.; Bo, L.; Wen, B.; Sarachik, M. P.; Subedi, P.; Kent, A. D.; Yeshurun, Y.; Millis, A. J.; Lampropoulos, C.; Mukherjee, S.; Christou, G. *Phys. Rev. B* **2010**, 82, 174405(1-4).
502. Inducing Single-Molecule Magnetism in a Family of Loop-of-Loops Aggregates: Heterometallic Mn40Na4 Clusters and the Homometallic Mn44 Analogue. Moushi, E. E.; Lampropoulos, C.; Wernsdorfer, W.; Nastopoulos, V.; Christou, G.; Tasiopoulos, A. J. *J. Am. Chem. Soc*., **2010**, *132*, 16146-16155.
503. High Nuclearity, Mixed-Valence Mn17, Mn18 and {Mn62}n Complexes from the Use of Triethanolamine. T. C. Stamatatos, D. Foguet-Albiol, W. Wernsdorfer,K. A. Abboud and G. Christou. *Chem. Commun*., **2011**, *47*, 274-276.
504. Mn21Dy Cluster with a Record Magnetization Reversal Barrier for a Mixed 3d/4f Single-Molecule Magnet. Papatriantafyllopoulou, C.; Wernsdorfer, W.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2011**, *50*, 421-423.
505. Hyperpolarized NMR in Single-File Nanotubes. Bowers, C. R.; Cheng, C.-Y.; Stamatatos, T. C.; Christou, G. *AIP Proc*. **2011**, *1330*, 43-46.
506. Raising the Spin of FeIII7 Disklike Clusters: The Power of Molecular Spin Frustration. Mukherjee, S.; Bagai, R.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2011**, *50*, 3849-3851.
507. Magnetic Field Dependent Transport through a Mn4 Single-Molecule Magnet. Haque F, Langhirt M, del Barco E, Taguchi, T.; Christou, G. *J. Appl. Phys*. **2011**, *109*, 07B112(1-3).
508. Iron(III) Chemistry with Ferrocene-1,1'-dicarboxylic Acid (fdcH2): An Fe7 Cluster with an Oxidized fdc- Ligand. Masello A.; Sanakis Y.; Boudalis A. K.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2011**, *50*, 5646-5654.
509. Synthetic Entry into Polynuclear Bismuth-Manganese Chemistry: High Oxidation State BiIII2MnIV6 and BiIIIMnIII10 Complexes. Stamatatos, T. C.; Oliver, K.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2011**, *50*, 5272-5282.
510. Old' Clusters with New Function: Oxidation Catalysis by High Oxidation State Manganese and Cerium/Manganese Clusters Using O2 Gas. Maayan, G.; Christou, G. *Inorg. Chem*. **2011**, *50*, 7015-7021.
511. Carboxylate-Free MnIII2LnIII2 (Ln = Lanthanide) and MnIII2YIII2 Complexes from the Use of (2-Hydroxymethyl)pyridine: Analysis of Spin Frustration Effects. Papatriantafyllopoulou, C.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2011**, *50*, 8959-8966. (**DOI:** 10.1021/ic2011106)
512. Family of Double-Cubane Mn4Ln2 (Ln = Gd, Tb, Dy, Ho) and Mn4Y2 Complexes: A New Mn4Tb2 Single-Molecule Magnet. Saha, A.; Thompson, M.; Abboud, K.A.; Wernsdorfer, W.; Christou, G. *Inorg. Chem*. **2011**, *50*, 10476-10485.
513. Towards models of the oxygen-evolving complex (OEC) of photosystem II: a Mn4Ca cluster of relevance to low oxidation states of the OEC. Koumousi, E. S.; Mukherjee, S.; Beavers, C. M.; Teat, S. J.; Christou, G.; Stamatatos, T. C. *Chem. Commun*. **2011**, *47*, 11128-11130.
514. The search for cobalt single-molecule magnets: A disk-like CoIIICoII6 cluster with a ligand derived from a novel transformation of 2-acetylpyridine. Kitos, A. A.; Efthymiou, C. G.; Papatriantafyllopoulou, C.; Nastopoulos, V.; Tasiopoulos, A.J.; Manos, M.J.; Wernsdorfer, W.; Christou, G.; Perlepes, S.P. *Polyhedron* **2011**, *30*, 2987-2996.
515. Mn7 Species with an *S* = 29/2 Ground State: High-Frequency EPR Studies of a Species at the Classical/Quantum Spin Interface. Wang, Z.; Van Tol, J.; Taguchi, T.; Daniels, M. R.; Christou, G.; Dalal, N. S. *J. Am. Chem. Soc*. **2011**, *133*, 17586-17589.
516. A NiII cubane with a ligand derived from a unique metal ion-promoted, crossed-aldol reaction of acetone with di-2-pyridyl ketone. Efthymiou, C. G.; Papatriantafyllopoulou, C.; Aromi, G.; Teat, S. J.; Christou, G.; Perlepes, S. P. *Polyhedron* **2011**, *30*, 3022-3025.
517. New Mixed-Valent Mn Clusters from the Use of *N, N, N', N'*-Tetrakis(2-hydroxyethyl)ethylene-diamine (edteH4): Mn3, Mn4, Mn6, and Mn10. Saha, A.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2011**, *50*, 12774-12784.
518. Spin decoherence in an iron-based magnetic cluster. Wang, Z.; Datta, S.; Papatriantafyllopoulou, C.; Christou, G.; Dalal, N. S.; van Tol, J.; Hill, S. *Polyhedron* **2011**, *30*, 3193-3196.
519. A Supramolecular Aggregate of Four Exchange-Biased Single-Molecule Magnets. Nguyen, T. N.; Wernsdorfer, W.; Abboud, K. A.; Christou, G. *J. Am. Chem. Soc*. **2011**, *133*, 20688-20691.
520. Synthetic model of the asymmetric [Mn3CaO4] cubane core of the oxygen-evolving complex of photosystem II. Mukherjee, S.; Stull, J. A.; Yano, J.; Stamatatos, T. C.; Pringouri, K.; Stich, T. A.; Abboud, K. A.; Britt, R. D.; Yachandra, V. K.; Christou, G. *Proc. Nat. Acad. Sci. USA*, **2012**, *109*, 2257-2262. **DOI:** 10.1073/pnas.1115290109
521. “Squaring the clusters”: a MnIII4NiII4 molecular square from nickel(II)-induced structural transformation of a MnII/III/IV12 cage. Alexandropoulos, D. I.; Manos, M. J.; Papatriantafyllopoulou, C.; Mukherjee, S.; Tasiopoulos, A. J.; Perlepes, S. P.; Christou, G.; Stamatatos, T. C. *Dalton Trans*. **2012**, *41*, 4744-4747.
522. Single-Strand Molecular Wheels and Coordination Polymers in Copper(II) Benzoate Chemistry by the Employment of α-Benzoin Oxime and Azides: Synthesis, Structures, and Magnetic Characterization. Stamatatos, T. C.; Vlahopoulou, G.; Raptopoulou, C. P.; Psycharis, V.; Escuer, A.; Christou, G.; Perlepes, S. P. *Eur. J. Inorg. Chem*. **2012**, *19*, 3121-3131.
523. A Mn36Ni4 loop-of-loops-and-supertetrahedra aggregate possessing a high *S*T = 26 ± 1 spin ground state. Charalambous, M.; Moushi, E. E.; Papatriantafyllopoulou, C.; Wernsdorfer, W.; Nastopoulos, V.; Christou, G.; Tasiopoulos, A. J. *Chem. Commun*. **2012**, *48*, 5410-5412.
524. Transverse field Ising ferromagnetism in Mn12-acetate-MeOH. Subedi, P.; Kent, A. D.; Wen, Bo; Sarachik, M. P.; Yeshurun, Y.; Millis, A. J.; Mukherjee, S.; Christou, G. *Phys. Rev. B*, **2012**, *85*, 134441(1-5).
525. Discrete antiferromagnetic spin-wave excitations in the giant ferric wheel Fe18. Ummethum, J.; Nehrkorn, J.; Mukherjee, S.; Ivanov, N. B.; Stuiber, S.; Strässle, Th.; Tregenna-Pigott, P. L. W.; Mutka, H.; Christou, G.; Waldmann, O.; Schnack, J. *Phys. Rev. B*, **2012**, *86*, 104403 (1-14).
526. Ferromagnetic Cluster Spin Waves in Molecular Disks Studied by Inelastic Neutron Scattering. Nehrkorn, J.; Mukherjee, S.; Stuiber, S.; Mutka, H.; Strässle, Th.; Christou, G.; Waldmann, O. *Phys. Rev. B*, **2012**, *86*, 134417 (1-11). **DOI:** 10.1103/PhysRevB.86.134417
527. Synthesis, Structure, and Spectroscopic and Magnetic Characterization of [Mn12O12(O2CCH2But)16(MeOH)4]·- MeOH, a Mn12 Single-Molecule Magnet with True Axial Symmetry. Lampropoulos, C.; Murugesu, M.; Harter, A. G.; Wernsdofer, W.; Hill, S.; Dalal, N. S.; Reyes, A. P.; Kuhns, P. L.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2013**, *52*, 258-272. **DOI:** 10.1021/ic301764t
528. Comproportionation Reactions to Manganese(III/IV) Pivalate Clusters: A New Half-Integer Spin Single-Molecule Magnet. Mukherjee, S.; Abboud, K.A.; Wernsdorfer, W.; Christou, G. *Inorg. Chem*. **2013**, *52*, 873-884. **DOI:** 10.1021/ic302021a
529. Mn/Ce Clusters from the use of pivalate and chelate ligands: MnIII8CeIV, MnIII2CeIV2, and MnIII4CeIII2 products. Papatriantafyllopoulou, C.; Abboud, K. A.; Christou, G. *Polyhedron*, **2013**, *52*, 196-206. **DOI:** 10.1016/j.poly.2012.09.052
530. 2-Pyrrolyloximes in High-Nuclearity Transition-Metal Cluster Chemistry: Fe10 and Fe12. Koumousi, E. S.; Routzomani, A.; Nguyen, T. N.; Giannopoulos, D. P.; Raptopoulou, C. P.; Psycharis, V.; Christou, G.; Stamatatos, Th. C. *Inorg. Chem*. **2013**, *52*, 1176-1178. **DOI:** 10.1621/ic3023908
531. Geometric-Phase Interference in a Mn12 Single-Molecule Magnet with Fourfold Rotational Symmetry. S.T. Adams, E.H. da Silva Neto, S. Datta, J.F. Ware, C. Lampropoulos, G. Christou, Y. Myaesoedov, E. Zeldov, and J. R. Friedman, *Phys. Rev. Lett*. **2013**, *110*, 087205 (1-5). **DOI:** 10.1103/PhysRevLett.110.087205
532. A Mn4 Single-Molecule Magnet with the Defective-dicubane Structure from the Use of Pyrenecarboxylic Acid. Nguyen, T. N.; Abboud, K. A.; Christou, G. *Polyhedron*, **2013**, *66*, 171-178.  **DOI:** 10.1016/j.poly.2013.03.041
533. Synthesis, Structure and Magnetic Properties of [FeIII4LnIII2] (Ln=Gd, Tb, Dy, Ho) and [FeIII4YIII2] Clusters. Pham, L.; Abboud, K.A.; Wernsdorfer, W.; Christou, G. *Polyhedron*, **2013**, *66*, 205-211. **DOI:** 10.1016/j.poly.2013.04.024
534. Slow Magnetization Relaxation in Unprecedented MnIII4DyIII3 and MnIII4DyIII5 Clusters from the Use of N-Salicylidene-o-aminophenol. Alexandropoulos, D. I.; Nguyen, T. N.; Cunha-Silva, L.; Zafiropoulos, T. F.; Escuer, A.; Christou, G.; Stamatatos, T. C. *Inorg. Chem*. **2013**, *52*, 1179-1181. **DOI:** 10.1021/ic302505p
535. Electronic Structural Changes of Mn in the Oxygen-Evolving Complex of Photosystem II during the Catalytic Cycle. Glatzel, P.; Schroeder, H.; Pushkar, Y.; Boron, T.; Mukherjee, S.; Christou, G. Pecoraro, V. L.; Messinger, J.; Yachandra, V. K.; Bergmann, U.; Yano, J.; *Inorg. Chem*. **2013**, *52*, 5642-5644   **DOI**: 10.1021/ic4005938
536. Onset of a Propagating Self-Sustained Spin Reversal Front in a Magnetic System. Subedi, P.; Velez, S.; Macia, F.; Li, S.; Sarachik, M. P.; Tejada, J.; Mukherjee, S.; Christou, G.; Kent, A. D. *Phys. Rev. Lett*. **2013**, *110*, 207203.   **DOI**: 10.1103/PhysRevLett.110.207203
537. Approaches to Molecular Magnetic Materials from the Use of Cyanate Groups in Higher Oxidation State Metal Cluster Chemistry: Mn14 and Mn16. Alexandropoulos, D. I.; Papatriantafyllopoulou, C.; Li, C.; Cunha-Silva, L.; Manos, M.J.; Tasiopoulos, A. J.; Wernsdorfer, W.; Christou, G.; Stamatatos, T.C. *Eur. J. Inorg. Chem*. **2013**, 2286-2290. **DOI:** 10.1002/ejic.201300099
538. A MnII6MnIII6 Single-Strand Molecular Wheel with a Reuleaux Triangular Topology: Synthesis, Structure, Magnetism, and DFT Studies. Zartilas, S.; Papatriantafyllopoulou, C.; Stamatatos, T.C.; Nastopoulos, V.; Cremades, E.; Ruiz, E.; Christou, G.; Lampropoulos, C.; Tasiopoulos, A.J. *Inorg. Chem*. 2013, *52*, 12070-12079.  **DOI**: 10.1021/ic401872c
539. Mn8 Cluster with Ferrocene-1,1′-Dicarboxylate Ligation: Single-Molecule Magnetism with Multiple External Redox Centers. A. Masello, K. A. Abboud, W. Wernsdorfer, and G. Christou, *Inorg. Chem.*, **2013**, *52*, 10414–10423. **DOI:** 10.1021/ic4011955
540. Dimeric and Tetrameric Supramolecular Aggregates of Single-Molecule Magnets via Carboxylate Substitution. A. M. Mowson, T. N. Nguyen, K. A. Abboud, and G. Christou. *Inorg. Chem.* **2013**, *52*, 12320–12322. **DOI:** 10.1021/ic402155h
541. Magnetic Couplings in Spin Frustrated Fe7III Disklike Clusters. J. J. Phillips, J. E. Peralta, and G. Christou. *J. Chem. Theory Comput.*, **2013**, *9*, 5585-5589. **DOI:** 10.1021/ct4007376
542. Slow magnetization relaxation in a 1-​D double-​chain coordination polymer composed of {DyIII4} repeating units. Alexandropoulos, D.I.; Li, C.; Raptopoulou, C.P.; Psycharis, V.; Wernsdorfer, W.; Christou, G.; Stamatatos, T.C. *Curr. Inorg. Chem*. **2013**, *3*, 161-171.
543. Supramolecular chains of high nuclearity MnIII25 barrel-like single-molecule magnets. Giannopoulos, D. P.; Thuijs, A.; Wernsdorfer, W.; Pilkington, M.; Christou, G.; Stamatatos, T.C. *Chem. Commun*. **2014**, *50*, 779-781. **DOI:** 10.1039/C3CC47094F
544. Emissive molecular nanomagnets: introducing optical properties in triangular oximato MnIII3 SMMs from the deliberate replacement of simple carboxylate ligands with their fluorescent analogues. Alexandropoulos, D. I.; Mowson, A. M.; Pilkington, M.; Bekiari, V.; Christou, G.; Stamatatos, T.C. *Dalton Trans*. **2014**, *43*, 1965-1969.
545. Tetranuclear Lanthanide(III) Complexes with a Zigzag Topology from the Use of Pyridine-2,6-dimethanol: Synthetic, Structural, Spectroscopic, Magnetic and Photoluminescence Studies. Alexandropoulos, D. I.; Cunha-Silva, L.; Pham, L.; Bekiari, V.; Christou, G.; Stamatatos, T. C. *Inorg. Chem*. **2014**, *53*, 3220-3229.
546. Partial Spin Reversal in Magnetic Deflagration. S. Vélez, P. Subedi, F. Macià, S. Li, M. P. Sarachik, J. Tejada, S. Mukherjee, G. Christou, and A. D. Kent, *Phys. Rev. B*, **2014**, *89*, 144408(1-7).
547. Manganese/Cerium Clusters Spanning a Range of Oxidation Levels and CeMn8, Ce2Mn4, and Ce6Mn4 Nuclearities: Structural, Magnetic and EPR Properties. Lampropoulos, C.; Thuijs, A. E.; Mitchell, K. J.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2014**, 53, 6805-6816.
548. Fluorescent Naphthalene Diols as Bridging Ligands in Ln(III) Cluster Chemistry: Synthetic, Structural, Magnetic, and Photophysical Characterization of 8Ln(III) "Christmas Stars". Alexandropoulos, D. I.; Fournet, A.; Cunha-Silva, L.; Mowson, A. M.; Bekiari, V.; Christou, G.; Stamatatos, T. C. *Inorg. Chem*. **2014**, *53*, 5420-5422.
549. A Chiral, Low-Cytotoxic Ni15 Wheel Complex. Muche, S.; Levacheva, I.; Samsonova, O.; Pham, L.; Christou, G.; Bakowsky, U.; Holynska, M. *Inorg. Chem*. **2014**, *53*, 7642-7649.
550. A new family of Ln7 clusters with an ideal D3h metal-centered trigonal prismatic geometry, and SMM and photoluminescence behaviors. Mazarakioti, E. C.; Poole, K. M.; Cunha-Silva, L.; Christou, G; Stamatatos, T. C. *Dalton Trans*. **2014**, *43*, 11456-11460.
551. Discrete and encapsulated molecular grids: homometallic Mn15 and heterometallic Mn24Ni2 aggregates. Charalambous, M.; Zartilas, S. M.; Moushi, E. E.; Papatriantafyllopoulou, C.; Manos, M.; Stamatatos, T. C.; Mukherjee, S.; Nastopoulos, V.; Christou, G.; Tasiopoulos, A. J. *Chem. Commun*. **2014**, *50*, 9090-9093.
552. Synthesis, Characterization, and Reactivity of Iron(III) Complexes Supported by a Trianionic ONO3- Pincer Ligand. Pascualini, M. E.; Di Russo, N. V.; Quintero, Pedro A.; Thuijs, A. E.; Pinkowicz, D.; Abboud, K. A.; Dunbar, K. R.; Christou, G.; Meisel, M. W.; Veige, A. S. *Inorg. Chem*. **2014**, 53, 13078-13088.
553. A high-spin square-planar Fe(II) complex stabilized by a trianionic pincer-type ligand and conclusive evidence for retention of geometry and spin state in solution. Pascualini, M. E.; Di Russo, N. V.; Thuijs, A. E.; Ozarowski, A.; Stoian, S. A.; Abboud, K. A.; Christou, G.; Veige, A. S. *Chem. Sci.* **2015**, *6*, 608-612.
554. [A New "Offset" Analogue of the Classical Oxime-Bridged [Mn(III)6] Single-Molecule Magnets.](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=8&SID=1F9p6WG5iOKoNp1wjiB&page=1&doc=3&cacheurlFromRightClick=no) Poole, K. M; Korabik, M.; Shiddiq, M.; [Mitchell, K. J](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=1F9p6WG5iOKoNp1wjiB&field=AU&value=Mitchell%2C+Kylie+J&cacheurlFromRightClick=no); [Fournet, A.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=1F9p6WG5iOKoNp1wjiB&field=AU&value=Fournet%2C+Adeline); [You, Z.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=1F9p6WG5iOKoNp1wjiB&field=AU&value=You%2C+Zhiliang); [Christou, G.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=1F9p6WG5iOKoNp1wjiB&field=AU&value=Christou%2C+George); [Hill, S.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=1F9p6WG5iOKoNp1wjiB&field=AU&value=Hill%2C+Stephen); [Holynska, M.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=1F9p6WG5iOKoNp1wjiB&field=AU&value=Holynska%2C+Malgorzata) *Inorg. Chem*. **2015**, *54*, 1883-1889.
555. [[Mn12O12(O2CMe)12(NO3)4(H2O)4]: facile synthesis of a new type of Mn12 complex.](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=8&SID=1F9p6WG5iOKoNp1wjiB&page=1&doc=2&cacheurlFromRightClick=no) Thuijs, A. E; Christou, G.; Abboud, K. A. *Acta Cryst*. *Sect. C*, **2015**, *71*, 185-187.
556. Emissive Mn4Ca Clusters with Square Pyramidal Topologies: Syntheses and Structural, Spectroscopic, and Physicochemical Characterization. Alaimo, A. A.; Takahashi, D.; Cunha-Silva, L.; Christou, G.; Stamatatos, T. C. *Inorg. Chem*. **2015**, *54*, 2137-2151.
557. Covalently Linked Dimer of Mn3 Single-Molecule Magnets and Retention of its Structure and Quantum Properties in Solution. Nguyen, T. N.; Shiddiq, M.; Ghosh, T.; Abboud, K. A.; Hill, S.; Christou, G. *J. Am. Chem. Soc.* **2015**, *137*, 7160-7168. **DOI:** 10.1021/jacs.5b02677
558. New Structural Types of Mn16 Single-Molecule Magnets: W-Shaped Topology from Reductive Aggregation. Thuijs, A.; King, P.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2015**, 54, 9127-9137. **DOI:** 10.1021/acs.inorgchem.5b01553.
559. Synthesis and characterization of a family of M2+ complexes supported by a trianionic ONO3- pincer-type ligand: towards the stabilization of high-spin square-planar complexes. Pascualini, M. E.; Stoian, S. A.; Ozarowski, A.; Di Russo, N. V.; Thuijs, A. E.; Abboud, K. A.; Christou, G.; Veige, A. S. *Dalton Trans*. **2015**, *44*, 20207-20215.
560. MOF-like supramolecular network of Mn3 single-molecule magnets formed by extensive π-π stacking. T. N. Nguyen, K. A. Abboud, G. Christou, *Polyhedron*, **2016**, *103*, 150-156. **DOI:** [10.1016/j.poly.2015.09.039](http://dx.doi.org/10.1016/j.poly.2015.09.039)
561. High Nuclearity Cerium-Manganese Clusters and their Structural and Magnetic Properties: CeIV3MnIII7 and CeIV5 MnIII11. Thuijs, A. E.; Marton, A.; Stamatatos, T.C.; Abboud, K. A.; Christou, G. *Polyhedron*, **2016**, 103, 288-294. **DOI:** 10.1016/j.poly.2015.03.017
562. Supramolecular Aggregates of Single-Molecule Magnets: Exchange-biased Quantum Tunneling of Magnetization in a Rectangular [Mn3]4 Tetramer.Nguyen, T. N.; Wernsdorfer, W.; Shiddiq, M.; Abboud,K.A.; Hill, S.; Christou, G. *Chem. Sci*, **2016**,*7*, 1156-1173. **DOI:** 10.1039/c5sc02599k
563. Spin coherence in a Mn3 single-molecule magnet. Abeywardana, C.; Mowson, A. M.; Christou, G.; Takahashi, S. *Appl. Phys. Lett.* **2016**, *108*, 042401 (1-4).  **DOI:** 10.1063/1.4940437
564. Filling the Gap between the Quantum and Classical Worlds of Nanoscale Magnetism: Giant Molecular Aggregates based on Paramagnetic 3d Metal Ions. Papatriantafyllopoulou, C.; Moushi, E. E.; Christou, G.; Tasiopoulos, A. J. *Chem. Soc. Rev*. **2016**, *45*, 1597-1628. **DOI:** 10.1039/C5CS00590F
565. Magnetic "Molecular Oligomers" Based on Decametallic Supertetrahedra: A Giant Mn49 Cuboctahedron and its Mn25Na4 Fragment. [Manoli, M.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=2Bjz6gNYMMhbv61lLjc&field=AU&value=Manoli%2C+Maria); [Alexandrou, S.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=2Bjz6gNYMMhbv61lLjc&field=AU&value=Alexandrou%2C+Sofia); [Pham, L.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=2Bjz6gNYMMhbv61lLjc&field=AU&value=Pham%2C+Linh); [Lorusso, G.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=2Bjz6gNYMMhbv61lLjc&field=AU&value=Lorusso%2C+Giulia); [Wernsdorfer, W.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=2Bjz6gNYMMhbv61lLjc&field=AU&value=Wernsdorfer%2C+Wolfgang); [Evangelisti, M.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=2Bjz6gNYMMhbv61lLjc&field=AU&value=Evangelisti%2C+Marco); [Christou, G.](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=2Bjz6gNYMMhbv61lLjc&field=AU&value=Christou%2C+George); [Tasiopoulos, A. J](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=2Bjz6gNYMMhbv61lLjc&field=AU&value=Tasiopoulos%2C+Anastasios+J). *Angew. Chem. Inter. Ed*. **2016**, *55*, 679-684. **DOI:**10.1002/anie.201509461
566. Introducing Dimensionality to the Archetypical Mn12 Single-Molecule Magnet: a Family of [Mn12]n Chains.

Corrales, S. A.; Cain, J. M.; Uhlig, K. A.; Mowson, A. M.; Papatriantafyllopoulou, C.; Peprah, M. K.; Ozarowski, A.; Tasiopoulos, A. J.; Christou, G.; Meisel, M. W.; Lampropoulos, C. *Inorg. Chem*. **2016**, *55*, 1367-1369. **DOI:** 10.1021/acs.inorgchem.6b00058

1. Molecules at the Quantum−Classical Nanoparticle Interface: Giant Mn70 Single-Molecule Magnets of ∼4 nm Diameter. Vinslava, A.; Tasiopoulos, A. J.; Wernsdorfer, W.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2016**, *55*, 3419-3430. **DOI:** 10.1021/acs.inorgchem.5b02790
2. Cyanate groups in higher oxidation state metal cluster chemistry: Mixed-valence (II/III) Mn16 and Mn18 clusters

Alexandropoulos, D. I.; Moushi, E. E.; Papatriantafyllopoulou, C.; Beavers, C. M.; Teat, S. J.; Tasiopoulos, A. J.; Christou, G.; Stamatatos, T. C. *Polyhedron*, **2016**, *108*, 131-142. **DOI:**10.1016/j.poly.2015.11.031

1. Magnetostructural Correlation for High Nuclearity Iron(III)/oxo Complexes, and Application to Fe5, Fe6 and Fe8 Clusters. Mitchell, K. J.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2016**, *55*, 6597-6608. **DOI:** 10.1021/acs.inorgchem.6b00769
2. Unusual MnIII/IV4 Cubane and MnIII16M4 (M = Ca, Sr) Looplike Clusters from the Use of Dimethylarsinic Acid Chakov, N. E.; Thuijs, A. E.; Wernsdorfer, W.; Rheingold, A. L.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2016**, *55*, 8468–8477. **DOI:** 10.1021/acs.inorgchem.6b01077
3. CoII4, CoII7, and a Series of CoII2LnIII (LnIII = NdIII, SmIII, GdIII, TbIII, DyIII) Coordination Clusters: Search for Single- Molecule Magnets. Modak, R.; Sikdar, Y.; Thuijs, A. E.; Christou, G.; Goswami, S. *Inorg. Chem*. **2016**, *55*, 10192-10202. **DOI:** 10.1021/acs.inorgchem.6b01402
4. Molecular Nanoclusters: A 2 nm-Sized {Mn29} Cluster with a Spherical Structure. Alexandropoulos, D. I.; Fournet, A.; Cunha-Silva, L.; Christou, G.; Stamatatos, T. C. *Inorg. Chem*. **2016**, *55*, 12118-12121. **DOI:** 10.1021/acs.inorgchem.6b02363
5. New Mixed-Valence MnII4MnIV Clusters from an Unusual Ligand Transformation. Adebayo, O. A.; Abboud, K. A.; Christou, G. *Polyhedron*, **2017**, *122*, 71-78. **DOI:** 10.1016/j.poly.2016.10.018
6. Effects of Uniaxial Pressure on the Quantum Tunneling of Magnetization in a high-symmetry Mn12 Single-molecule Magnet. Atkinson, J. H.; Fournet, A. D.; Bhaskaran, L.; Myasoedov, Y.; Zeldov, E.; del Barco, E.; Hill, S.; Christou, G.; Friedman, J. R. *Phys. Rev. B*, **2017**, *95*, 184403(1-11). **DOI:** https://doi.org/10.1103/PhysRevB.95.184403
7. A Family of 'Windmill'-like {Cu6Ln12)} Complexes exhibiting Single-molecule Magnetism Behavior and large Magnetic Entropy Changes. Alexandropoulos, D. I.; Poole, K. M.; Cunha-Silva, L.; Sheikh, J. A.; Wernsdorfer, W.; Christou, G.; Stamatatos, T. C. Chem. Commun. 2017, 53, 4266-4269. **DOI:** 10.1039/c7cc01382e
8. Cation Substitution Effect on a Molecular Analogue of Perovskite Manganites. Wang, Y.-P.; Li, X.-G.; Zhang, X.-G.; Christou, G.; Cheng, H.-P. *J. Phys. Chem*. *C*, **2017**, *121*, 10893-10898. **DOI:** 10.1021/acs.jpcc.6b11965
9. Heterometallic MnIII4Ln2 (Ln = Dy, Gd, Tb) Cross-Shaped Clusters and Their Homometallic MnIII4MnII2 Analogues. Savva, M.; Skordi, K.; Fournet, A. D.; Thuijs, A. E.; Christou, G.; Perlepes, S. P.; Papatriantafyllopoulou, C.; Tasiopoulos, A. J. *Inorg. Chem.* **2017**, *56*, 5657-5668. **DOI:** 10.1021/acs.inorgchem.7b00191
10. Molecular Analogue of the Perovskite Repeating Unit and Evidence for a Direct MnIII-CeIV-MnIII Exchange Coupling Pathway. Thuijs, A. E.; Li, X.-G.; Wang, Y.-P.; Abboud, K. A.; Zhang, X.-G.; Cheng, H.-P.; Christou, G. *Nature Commun*. **2017**, *8*, 500. **DOI:** 10.1038/s41467-017-00642-0
11. Synthesis and magnetochemistry of heterometallic triangular FeIII2LnIII (Ln = La, Gd, Tb, Dy, and Ho) and FeIII2YIII complexes. Singh, N.; Das Gupta, S.; Butcher, R. J.; Christou, G. *Dalton Trans*. **2017**, *46*, 7897–7903. **DOI:** 10.1039/c7dt00949f
12. Three-Dimensional (3-D) Ferromagnetic Network of Mn12 Single-Molecule Magnets: Subtle Environmental Effects and Switching to Antiferromagnetic. Fournet, A. D.; Mitchell, K. J.; Wernsdorfer, W.; Abboud,K. A.; Christou, G. *Inorg. Chem*. **2017**, *56*, 10706−10716. **DOI:** 10.1021/acs.inorgchem.7b01676
13. Mn3 Single-Molecule Magnets and Mn6/Mn9 Clusters from the Use of Methyl 2-Pyridyl Ketone Oxime in Manganese Phosphinate and Phosphonate Chemistry. Adebayo, O. A.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2017**, *56*, 11352−11364. **DOI:** 10.1021/acs.inorgchem.7b01793
14. Structural Diversities in Heterometallic Mn–Ca Cluster Chemistry from the Use of Salicylhydroxamic Acid: {MnIII4Ca2}, {MnII/III6Ca2}, {MnIII/IV8Ca}, and {MnIII8Ca2} Complexes with Relevance to Both High- and Low-Valent States of the Oxygen-Evolving Complex. Alaimo, A. A.; Koumousi, E. S.; Cunha-Silva, L.; McCormick, L. J.; Teat, S. J.; Psycharis, V.; Raptopoulou, C. P.; Mukherjee, S.; Li, C.; Das Gupta, S.; Escuer, A.; Christou, G.; Stamatatos, T. C. *Inorg. Chem.* **2017**, *56*, 10760–10774. **DOI:** 10.1021/acs.inorgchem.7b01740
15. Atomically-precise colloidal nanoparticles of cerium dioxide. Mitchell, K. J.; Abboud, K. A.; Christou, G. Nature Commun. **2017**, *8*, 1445. **DOI:** 10.1038/s41467-017-01672-4
16. Controlled Dimerization of Mn12 Single-Molecule Magnets. Jenkins, T. A.; Garnero, M.; Corrales, S. A.; Williams, E. R.; Mowson, A. M.; Ozarowski, A.; Wernsdorfer, W.; Christou, G.; Lampropoulos, C. *Inorg. Chem*. **2017**, 56, 14755-14758. **DOI:** 10.1021/acs.inorgchem.7b02640
17. Single-molecule magnetism within a family of [LnIII2MnIII10] complexes from 2-hydroxymethylpyridine. Bagai, R.; Wernsdorfer, W.; Abboud, K. A.; Christou, G. *Polyhedron*, **2018**, *142*, 49-57. **DOI:** 10.1016/j.poly.2017.12.005
18. A Bioinspired Soluble Manganese Cluster as a Water-Oxidation Electrocatalyst with Low Overpotential. Maayan, G.; Gluz, N.; Christou, G. *Nature Catalysis*, **2018**, *1*, 48-54. **DOI:**10.1038/s41929-017-0004-2
19. Structural and Magnetic Variations in a Family of Isoskeletal, Oximate-bridged {MnIV2MIII} Complexes (MIII = Mn, Gd, Dy). Alaimo, A.; Worrell, A.; Das Gupta, S.; Abboud, K. A.; Lampropoulos, C.; Christou, G.; Stamatatos, T. C. *Chem. Eur. J.* **2018**, *24*, 2588-2592. **DOI:** 10.1002/chem.201706098
20. Single Crystal to Single Crystal Transformation and Magnetic Properties of a Series of ‘Butterfly’ NiII2LnIII2

compounds: SMM behavior of the Dysprosium(III) Analogue. Mandal, S.; Ghosh, S.; Takahashi, D.; Christou, G.; Mohanta, S. *Eur. J. Inorg. Chem*. **2018**, 2793-2804. **DOI:** 10.1002/ejic.201800359

1. Homometallic {Mn10} and heterometallic {Mn6Ca4} supertetrahedra exhibiting an unprecedented {MnIII9MnII} oxidation state level and heterometal ions distribution. Skordi, K.; Papatriantafyllopoulou, C.; Zartilas, S.; Poole, K. M.; Nastopoulos, V.; Christou, G.; Tasiopoulos, A. J. *Polyhedron*, **2018**, *151*, 433-440. **DOI:** 10.1016/j.poly.2018.05.029
2. Family of [Ln4Mn8] (Ln = Gd, Tb, Dy, Ho) and Y4Mn8 Single-Molecule Magnets from the Use of 2-(pyridine-2-

 yl)propan-2-ol. Pham, L.; Abboud, K. A.; Wernsdorfer, W.; Christou, G. *Polyhedron*, **2018**, *155*, 34-41. **DOI:** 10.1016/j.poly.2018.07.007

1. [Mn14] ‘Structural Analogues’ of well-known [Mn12] Single-Molecule Magnets. Charalambous, M.; Moushi, E. E.; Nguyen, T. N.; Mowson, A. M.; Christou, G.; Tasiopoulos, A. J., *Eur. J. Inorg. Chem*. **2018**, 3905-3912. **DOI:** 10.1002/ejic.201800754
2. Giant Heterometallic [Mn36Ni4]0/2- and [Mn32Co8] ‘Loops-of-Loops-and-Supertetrahedra’ Molecular Aggregates. M. C. Charalambous, E. E. Moushi, T. N. Nguyen, C. Papatriantafyllopoulou, V. Nastopoulos, G. Christou, A. J. Tasiopoulos, *Front. Chem*. **2019**, *7*, 96
3. Efficient Homogeneous Electrocatalytic Water Oxidation by a Manganese Cluster with Overpotential of only 74 mV. Ghosh, T.; Christou, G.; Maayan, G. *Angew. Chem. Int. Ed*. **2019**, *58*, 2785-2790. **DOI:** 10.1002/anie.201813895. **Corrigendum: DOI:** 10.1002/anie.201904088
4. New MnIIMnIII8 and MnII2MnIII10MnIV2 clusters from the reaction of methyl 2-pyridyl ketone oxime with [Mn12O12(O2CR)16(H2O)4]. Ghosh, T.; Abboud,K. A.;Christou, G. *Polyhedron*, **2019**, *173*, 114145(1-7). DOI: 10.1016/j.poly.2019.114145
5. 3D halos assembled from Fe3O4/Au NPs with enhanced catalytic and optical properties. Cai, R.; Yang, D.; Lin, K. T.; Cao, T.S.; Lyv, Y.F.; Chen, K.F.; Yang, Y.; Ge, J.; Xia, L.; Christou, G.; Zhao, Y.L.; Chen, Z.; Tan, W.H. *Nanoscale*, **2019**, *11*, 20968-20976. **DOI:** 10.1039/c9nr05874e
6. Synthesis and characterisation of new Ni2Mn, Ni2Mn2 and Mn8 clusters by the use of 2-pyridyl oximes. Efthymiou, C. G.; Mylonas-Margaritis, I.; Das Gupta, S.; Tasiopoulos, A.; Nastopoulos, V.; Christou, G.; Perlepes, S.; Papatriantafyllopoulou, C. *Polyhedron*, **2019**, 171, 330-337. **DOI:** 10.1016/j.poly.2019.07.024
7. Accuracy of Density Functional Theory Methods for the Calculation of Magnetic Exchange Couplings in Binuclear Iron(III) Complexes. Joshi, R. P.; Phillips, J. J.; Mitchell, K. J.; Christou, G.; Jackson, K. A.; Peralta, J. E. *Polyhedron*, **2020**, *176*, 114194(1-7). **DOI:** 10.1016/j.poly.2019.114194
8. Electronegative ligands enhance charge transfer to Mn12 single-molecule magnets deposited on graphene. Zhu, X.; Hale, A.; Christou, G.; Hebard, A.F. *J. Appl. Phys.*, **2020**, 127, 064303. **DOI:** 10.1063/1.5128329
9. Feasibility of ground state spin switching in a molecular analogue of the mixed-metal oxides with the perovskite structure. Cao, T. S.; Chen, D.-T.; Abboud, K. A.; Zhang, X.; Cheng, H.-P.; Christou. G., *Polyhedron*, **2020**, *176*, 114275 (1-6). **DOI:** 10.1016/j.poly.2019.114275 in the *MAGNA* Special Issue
10. Molecular spin frustration in mixed-chelate Fe5 and Fe6 oxo clusters with high ground state spin values. Singh, A. P.; Joshi, R. P.; Abboud, K. A.; Peralta, J. E.; Christou, G. *Polyhedron*, **2020**, 176, 114182 (1-8) in the *MAGNA* Special Issue
11. Molecular nanoparticles of cerium dioxide: structure-directing effect of halide ions. Russell-Webster, B.; Abboud, K. A.; Christou, G. *Chem. Commun*. **2020**, *56*, 5382-5385. **DOI:** 10.1039/c9cc08419c
12. Analysis of Exchange Interactions in Dimers of Mn3 Single-Molecule Magnets, and Their Sensitivity to External Pressure. Yu, J.-X.; Christou, G.; Cheng, H.-P. *J. Phys. Chem. C*, **2020**, *124*, 14768–14774. **DOI:**10.1021/acs.jpcc.0c02213
13. Long-range ferromagnetic exchange interactions mediated by Mn-CeIV-Mn superexchange involving empty 4f orbitals. Das Gupta, S.; Stewart, R. L.; Chen D.-T.; Abboud, K. A.; Cheng, H.-P.; Hill, S.; Christou, G. *Inorg. Chem*., **2020**, *145*, 8716-8726. **DOI:** 10.1021/acs.inorgchem.0c00332
14. Iron(III)-oxo Cluster Chemistry with Dimethylarsinate Ligands: Structures, Magnetic Properties, and Computational Studies. Lee, K. H. K.; Peralta, J. E.; Abboud, K. A.; Christou, G., *Inorg. Chem*. **2020**, *59*, 13, 8716-8726. **DOI:** 10.1021/acs.inorgchem.0c00332
15. Extending the family of reduced [Mn12O12(O2CR)16(H2O)x]n- complexes, and their sensitivity to environmental factors. Soler, M.; Mahalay, P.; Wernsdorfer, W.; Lubert-Perquel, D.; Huffman, J. C.; Abboud, K. A.; Hill, S.; Christou, G. *Polyhedron*, **2021**, 195, 114968. **DOI:** 10.1016/j.poly.2020.114968
16. Expansion of the Family of Molecular Nanoparticles of Cerium Dioxide, and their Catalytic Scavenging of Hydroxyl Radicals. Mitchell, K. J.; Goodsell, J.; Russell-Webster, B.; Twahir, U.; Angerhofer, A.; Abboud, K. A.; Christou, G., *Inorg. Chem*., **2021**, *60*, 1641–1653. **DOI:** 10.1021/acs.inorgchem.0c03133
17. Exchange-biased Quantum Tunneling of Magnetization in a [Mn3]2 Dimer of Single-Molecule Magnets with Rare Ferromagnetic Inter-Mn3 Coupling. Ghosh, T.; Marbey, J.; Wernsdorfer, W.; Hill, S.; Abboud, K. A.; Christou, G., *Phys. Chem. Chem. Phys*. **2021**, ***23***, 8854 - 8867. **DOI:** 10.1039/d0cp06611g.
18. Unusual Mn5 cluster with a ‘twisted bow-tie’ topology and MnIIMnIII2MnIV2 oxidation states: synthesis, structure, and magnetic properties. Hale, A.; King, P.; Abboud, K. A.; Christou, G. *Polyhedron*, **2021**, 200, 115141. [10.1016/j.poly.2021.115141](https://doi.org/10.1016/j.poly.2021.115141)
19. Truly Monodisperse ‘Molecular Nanoparticles’ of Cerium Dioxide of 2.4 nm dimensions: A {Ce100O167} Cluster. Russell-Webster, B.; Lopez-Nieto, J.; Abboud, K. A.; Christou, G., *Angew. Chem*. *Int. Ed.*, **2021**, *60*, 12591-12596. **DOI:** 10.1002/anie.202103110
20. The Role of the −OH Groups within Mn12 Clusters in Electrocatalytic Water Oxidation. Gluz, N.; Christou, G.; Maayan, G. *Chem. Eur. J.,* **2021***, 27,* 6034-6043**. DOI:** 10.1002/chem.202100151
21. Long-Range Magnetic Exchange Pathways in Complex Clusters from First Principles. Chen, D. T.; Chen, J.; Li, X.-G.; Christou, G.; Hill, S.; Zhang, X. G.; Cheng, H.-P. *J. Phys. Chem*. *C*, **2021**, 125, 20, 11124-11131. **DOI:** [10.1021/acs.jpcc.1c00706](https://doi.org/10.1021/acs.jpcc.1c00706)
22. Rare nuclearities in Mn/oxo cluster chemistry: Synthesis and characterization of a mixed-valence {MnII/III11} complex bearing acetate and salicylhydroximate bridging/chelating ligands. Koumousi, E. S.; Lazari, G.; Grammatikopoulos, S.; Papatriantafyllopoulou, C.; Manos, M. J.; Perlepes, S. P.; Tasiopoulos, A. J.; Christou, G.; Stamatatos, T. C., *Polyhedron*, **2021**, *206*, 115298 (1-9). **DOI:** doi.org/10.1016/j.poly.2021.115298
23. New family of Ln9Mn4 (Ln = Gd, Tb, Dy) and Y9Mn4 clusters from the use of methyl-2-pyridyl-ketone oxime in heterometallic Mn chemistry. Pham, L.; Cao, T. S.; Abboud, K. A.; Christou, G., *Polyhedron*, **2021**, *209*, 115462 (1-8). **DOI:** 10.1016/j.poly.2021.115462
24. Phosphorus-based Ligand Effects on the Structure and Radical Scavenging Ability of Molecular Nanoparticles of CeO2. Russell-Webster, B.; Lopez-Nieto, J.; Abboud, K. A.; Christou, G. *Dalton Trans.* **2021**, *50*, 15524-15532. **DOI:** [10.1039/D1DT02667D](https://doi.org/10.1039/D1DT02667D)
25. High-Nuclearity Structurally-related Mn Supertetrahedral T4 Aggregates. Skordi, K.; Fournet, A. D.; Yanhua, L.; Wernsdorfer, W.; Christou, G.; Nastopoulos, V.; Perlepes, S.P.; Papatriantafyllopoulou, C.; Tasiopoulos, A. J., *Chem. Commun*. **2021**, *57*, 12484-12487. **DOI:** 10.1039/d1cc01815a
26. MnII/III and CeIII/IV Units Supported on an Octahedral Molecular Nanoparticle of CeO2. S. Das Gupta, A.E. Thuijs, E.G. Fisher, K.A. Abboud, and G. Christou. *Inorg. Chem*. **2022**, 61, 6392-6402, **DOI:** [10.1021/acs.inorgchem.1c03719](https://doi.org/10.1021/acs.inorgchem.1c03719)
27. Heterometallic [Mn9Ni2] cluster consisting of the [M4(μ3-O)3(μ3-Cl)]n+ cubane and [MnIII3(μ3-O)4]+ “V-shaped” sub-units appearing in the giant [Mn84] and [Mn70] compounds and its [Mn9CoIII2] analogue. Moushi, E. E.; Charalambous, M.; Papatriantafyllopoulou, C.; Christou, G.; Tasiopoulos, A. J., *Polyhedron*, **2022**, *213*, 115551. **DOI:** [10.1016/j.poly.2021.115551](https://doi.org/10.1016/j.poly.2021.115551)
28. Using hyper-optimized tensor networks and first-principles electronic structure to simulate experimental properties of the giant {Mn84} torus. Chen, D. T.; Helms, P.; Hale, A. R.; Lee, M.; Li, C.; Gray, J.; Christou, G.; Zapf, V. S.; Chan, G. K.; Cheng, H.-P. *J. Phys. Chem. Lett*. **2022**, *13*, 2365–2370. **DOI:** [10.1021/acs.jpclett.2c00354](https://doi.org/10.1021/acs.jpclett.2c00354)
29. Magnetic properties of high nuclearity Fex-oxo (x = 7, 22, 24) clusters analyzed by a multi-pronged experimental, computational, and magnetostructural correlation approach. Hale, A. R.; Lott, M. E.; Foguet-Albiol, D.; Peralta, J. E.; Abboud, K. A.; Christou, G. *Inorg. Chem*. **2022**, 61, 11261–11276. **DOI:** [10.1021/acs.inorgchem.2c01371](https://doi.org/10.1021/acs.inorgchem.2c01371)
30. Analysis of spin frustration in an FeIII7 cluster using a combination of computational, experimental, and magnetostructural correlation methods. Hale, A. R.; Aebersold, L. E.; Foguet-Albiol, D.; Peralta, J. E.; Abboud, K. A.; Christou, G. *Polyhedron*, **2022**, 225, 116045(1-9). **DOI:** [10.1016/j.poly.2022.116045](https://doi.org/10.1016/j.poly.2022.116045)
31. Dipole switching by intramolecular electron transfer in single-molecule magnetic complex [Mn12O12(O2CR)16(H2O)4]. Skachkov, D.; Liu, S.-L.; Chen, J.; Christou, G.; Hebard, A. F.; Zhang, X.-G.; Trickey, S. B.; Cheng, H.-P. *J. Phys. Chem. A,* **2022***,* ASAP **DOI:** 10.1021/acs.jpca.2c02585
32. A thorough validation of the Green’s-function approximation for the calculation of magnetic exchange couplings. Lucas E. Aebersold, Ashlyn R. Hale, George Christou, and Juan E. Peralta, *J. Phys. Chem. A,* in press.
33. Synthesis, structure, and magnetic properties of an Fe36 dimethylarsinate cluster: the largest ‘ferric wheel’. Lee, K. H. K.; Aebersold, L.; Peralta, J. E.; Abboud, K. A.; Christou, G. in press.
34. Ground State Spin Change in a Molecular Nanoparticle of the Manganite Perovskite Repeating Unit. Cao, T. S.; Abboud, K. A.; Christou, G., submitted for publication.