

Peer-Reviewed Scientific Publication List of Marshall Carroll

1. Mark S. Gordon, Marshall T. Carroll, Larry P. Davis and Larry W. Burggraf, "Theoretical Studies of Hypercoordinated Silicon Compounds", *Computational Material Science*, 1993, volume 1, pages 161 - 168.
2. Marshall T. Carroll, Mark S. Gordon and Theresa L. Windus and Mark S. Gordon, "Hypercoordination in Group IV MH₅ and MH₅⁻ Systems", *Inorganic Chemistry*, 1992, volume 31, pages 825 - 829.
3. Yi Pang, Alan Schneider, Thomas J. Barton, Mark S. Gordon and Marshall T. Carroll, "The Synthesis and Structure of Tetrasilacyclohexyne", *Journal of the American Chemical Society*, 1992, volume 114, pages 4920-4921.
4. Kiet A. Nguyen, Marshall T. Carroll and Mark S. Gordon, "Structures and Bonding of Group IVA Sulfur and Oxygen Propellane Derivatives", *Journal of the American Chemical Society*, 1991, volume 113, pages 7924-7930.
5. Mark S. Gordon, Kiet A. Nguyen and Marshall T. Carroll, "The Structure and Bonding in Group IV [1.1.1]Propellanes", *Polyhedron*, 1991, volume 10, pages 1247-1264.
6. Mark S. Gordon, Marshall T. Carroll, Jan H. Jensen, Larry P. Davis, Larry W. Burrgraf and R. Martin Guidry, "The Nature of the Si-N Bond in Silatranes", *Organometallics*, 1991, volume 10, pages 2657 - 2660.
7. Mark S. Gordon, Theodore J. Packwood, Marshall T. Carroll and Jerry A. Boatz, "Structure, Bonding and Relative Stabilities of Four-Membered Disiletane Rings", *Journal of Physical Chemistry*, 1991, volume 51, pages 4332-4337.
8. Wei-Liang Cao, Richard F. W. Bader and Marshall T. Carroll, "A Description of the Nitrogen-Nitrogen Bond in Terms of Charge Distributions", *Chinese Journal of Chemistry*, 1990, volume 6, pages 492-506.
9. Mark S. Gordon, Marshall T. Carroll, Larry P. Davis and Larry W. Burggraf, "Structure and Stability of Hexacoordinated Sila Dianions", *Journal of Physical Chemistry*, 1990, volume 94, pages 8125-8128.
10. Marshall T. Carroll, "Applications and Extensions of the Theory of Atoms in Molecules", Ph. D. Thesis, June 1990, McMaster University.
11. Marshall T. Carroll, James R. Cheeseman, Roman Osman and Harel Weinstein, "Nucleophilic Addition to Activated Double Bonds: Predictions of Reactivity from the Laplacian of the Charge Density", *Journal of Physical Chemistry*, 1989, volume 93, pages 5120-5123.
12. Marshall T. Carroll and Richard F. W. Bader, "An Analysis of the Hydrogen-Bond in BASE-HF Complexes Using the Theory of Atoms in Molecules", *Molecular Physics*, 1988, volume 65, pages 695-722.
13. Marshall T. Carroll, Cheng Chang and Richard F. W. Bader, "Predictions of the Structures of Hydrogen-Bonded Complexes Using the Laplacian of the Charge Density", *Molecular Physics*, 1988, volume 63, pages 387-405.
14. J. R. Cheeseman, M. T. Carroll and R. F. W. Bader, "The Mechanics of Hydrogen Bond Formation in Conjugated Systems", *Chemical Physics Letters*, 1988, vol.143, pages 450-458.

15. R. F. W. Bader, M. T. Carroll, J. R. Cheeseman and C. Chang, "Properties of Atoms in Molecules: Atomic Volumes", *Journal of the American Chemical Society*, 1987, volume 109, pages 7968-7979.
16. R. F. W. Bader, A. Larouche, C. Gatti, M. T. Carroll, P. J. MacDougall and K. B. Wiberg, "Properties of Atoms in Molecules: Dipole Moments and Transferability of Properties", *Journal of Chemical Physics*, 1987, volume 87, pages 1142-1152.
17. M. T. Carroll, R. F. W. Bader and S. H. Vosko, "Local and Non-Local Spin-Density Functional Calculations of the Correlation Energy of Atoms in Molecules", *Journal of Physics B: Atomic and Molecular Physics*, 1987, volume 20, pages 3599-3629.