

***Phosphoranes and Phosponates***  
*List of References*

*General references:*

- For general discussions of bonding and structure in hypervalent species, see: (a) Musher, J.I. *Angew. Chem. Int. Ed., Eng.* **1969**, 8, 54. (b) Reed, A.E.; Schleyer, P.v.R. *J. Am. Chem. Soc.* **1990**, 112, 1434.
- For an interesting (and readable!) review on bonding in phosphines, phosphine oxides, and phosphonium ylides see: Gilheany, D.G. *Chem. Rev.* **1994**, 94, 1339.
- Other useful references: (a) P. Savignac, B. Iorga. *Modern Phosponate Chemistry*. CRC Press: Boca Raton, FL, 2003. (b) Holmes, R.R. *Chem. Rev.* **1996**, 96, 927.

*References for the problems:*

- 1.) (a) Fujii, A.; Miller, S.I. *J. Am. Chem. Soc.* **1971**, 93, 3694. (b) Ruder, S.M.; Norwood, B.K. *Tetrahedron Lett.* **1994**, 35, 3473.
- 2.) For an excellent, excellent, excellent discussion of MO theory by LCAO, see: Albright, T.A.; Burdett, J.K.; Whangbo, M.-H. *Orbital Interactions in Chemistry*; Wiley: New York, 1985. This is on 2-hour reserve in the Chemistry Library, call number: QD461 .A384 1985.
- 3.) (a) Hamada, Y.; Matsuura, F.; Oku, M.; Hatano, K.; Shioiri, T. *Tetrahedron Lett.* **1997**, 38, 8961. (b) Imamoto, T.; Kikuchi, S.; Miura, T.; Wada, Y. *Org. Lett.* **2001**, 3, 87.
- 4.) Grochowski, E.; Hilton, B.D.; Kupper, R.J.; Michejda, C.J. *J. Am. Chem. Soc.* **1982**, 104, 6876.
- 5.) Corey, E.J.; Liu, K. *J. Am. Chem. Soc.* **1997**, 119, 9929.