

# Recent Reviews. 53

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Reviews are listed in order of appearance in the sources indicated. In multidisciplinary review journals, only those reviews which fall within the scope of this Journal are included. Sources are listed alphabetically in three categories: regularly issued review journals and series volumes, contributed volumes, and other monographs. Titles are numbered serially, and these numbers are used for reference in the index.

Major English-language sources of critical reviews are covered. Encyclopedic treatises, annual surveys such as *Specialist Periodical Reports*, and compilations of symposia proceedings are omitted.

This installment of Recent Reviews covers principally the early part of the 1999 literature. Previous installment: *J. Org. Chem.* **1998**, 64(7), 2600–6.

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## Regularly Issued Journals and Series Volumes

### Accounts of Chemical Research

1. Wuest, J. D. Multiple Coordination and Activation of Lewis Bases by Multidentate Lewis Acids. **1999**, 32(1), 81–9.

2. Walawalkar, M. G.; Roesky, H. W.; Murugavel, R. Molecular Phosphonate Cages: Model Compounds and Starting Materials for Phosphate Materials. **1999**, 32(2), 117–26.

3. Sibi, M. P.; Porter, N. A. Enantioselective Free Radical Reactions. **1999**, 32(2), 163–71.

4. Lambert, J. B.; Zhao, Y.; Emblidge, R. W.; Salvador, L. A.; Liu, X.; So, J.-H.; Chelius, E. C. The  $\beta$ -Effect of Silicon and Related Manifestations of  $\sigma$ -Conjugation. **1999**, 32(2), 183–90.

5. Rebek, J., Jr. Reversible Encapsulation and Its Consequences in Solution. **1999**, 32(4), 278–86.

6. Wengel, J. Synthesis of 3'-C- and 4'-C-Branched Oligodeoxynucleotides and the Development of Locked Nucleic Acid (LNA). **1999**, 32(4), 301–10.

7. Bruneau, C.; Dixneuf, P. H. Metal Vinylidenes in Catalysis. **1999**, 32(4), 311–23.

8. Singh, V. Spiroepoxycyclohexa-2,4-dienones in Organic Synthesis. **1999**, 32(4), 324–33.

### Advances in Carbohydrate Chemistry and Biochemistry

9. Grindley, T. B. Applications of Tin-Containing Intermediates to Carbohydrate Chemistry. **1998**, 53, 17–142.

10. Witzak, Z. J.; Czernecki, S. Synthetic Applications of Selenium-Containing Sugars. **1998**, 53, 143–99.

11. Tomasik, P.; Schilling, C. H. Complexes of Starch with Inorganic Guests. **1998**, 53, 263–343.

12. Tomasik, P.; Schilling, C. H. Complexes of Starch with Organic Guests. **1998**, 53, 345–426.

### Advances in Organometallic Chemistry

13. Reichl, J. A.; Berry, D. H. Recent Progress in Transition Metal-Catalyzed Reactions of Silicon, Germanium, and Tin. **1998**, 43, 197–265.

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14. Barluenga, J.; Su'arez-Sobrino, A.; L'opez, L. A. Chiral Heterosubstituted 1,3-Butadienes: Synthesis and [4 + 2] Cycloaddition Reactions. **1999**, 32(1), 4–15.

15. Kulkarni, Y. S. Serine Derivatives in Organic Synthesis. **1999**, 32(1), 18–27.

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16. O'Brien, P. Sharpless Asymmetric Aminohydroxylation: Scope, Limitations, and Use in Synthesis. **1999**, 38(3), 326–9.

17. Bunz, U. H. F.; Kloppenburg, L. Alkyne Metathesis as a New Synthetic Tool: Ring-Closing, Ring-Opening, and Acyclic. **1999**, 38(4), 478–81.

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18. Brennecke, J. F.; Chateaufneuf, J. E. Homogeneous Organic Reactions as Mechanistic Probes in Supercritical Fluids. **1999**, 99(2), 433–52.

19. Katritzky, A. R.; Piffl, M.; Lang, H.; Anders, E. Regioselectivity of the Reactions of Heteroatom-Stabilized Allyl Anions with Electrophiles. **1999**, 99(3), 665–722.

20. Krief, A.; Laval, A.-M. Coupling of Organic Halides with Carbonyl Compounds Promoted by Samarium Iodide, the Kagan Reagent. **1999**, 99(3), 745–77.

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**24.** Gribble, G. W. Sodium Borohydride in Carboxylic Acid Media: A Phenomenal Reduction System. **1998**, *27*(6), 395–404.

**25.** Crisp, G. T. Variations on a Theme: Recent Developments on the Mechanism of the Heck Reaction and Their Implications for Synthesis. **1998**, *27*(6), 427–36.

**26.** Ciufolini, M. A.; Xi, N. Synthesis, Chemistry and Conformational Properties of Piperazic Acids. **1998**, *27*(6), 437–45.

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**27.** Bhalay, G. Combinatorial Chemistry: Lottery for Chemists. **1999**, *35*(3), 25–9.

**28.** Whiting, A. Discovery and Diversity. **1999**, *35*(3), 31–4.

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**29.** Xie, W.; Jin, Y.; Wang, P. G. Lanthanide Triflates as Unique Lewis acids. **1999**, *29*(2), 23–9.

**30.** Blum, J.; Avnir, D.; Schumann, H. Sol–Gel Encapsulated Transition-Metal Catalysts. **1999**, *29*(2), 32–8.

**31.** Crabtree, R. H. Speeding Catalyst Discovery and Optimization. **1999**, *29*(4), 21–6.

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**32.** Dyson, P. J.; Johnson, B. F. G.; Martin, C. M. Ruthenium Cluster-[2.2]paracyclophane Complexes. **1998**, *175*, 59–89.

**33.** Majoral, J.-P.; Igau, A. Zirconium Species as Tools in Phosphorus Chemistry: II.  $[\text{Cp}_2\text{ZrMe}_2]$ , a Useful Reagent. **1998**, *176*, 1–16.

**34.** Harder, S. Recent Developments in Cyclopentadienyl-Alkali Metal Chemistry. **1998**, *176*, 17–66.

**35.** Kako, M.; Nakadaira, Y. Charge-Transfer Complexes and Electron-Transfer Reaction of Organosilicon and Related Compounds. **1998**, *176*, 87–112.

**36.** Muller, M.; Paetzold, P. Tri-*tert*-butylazadiboriridine: A Molecule with a Basic Boron–Boron Bond. **1998**, *176*, 135–55.

**37.** Sato, S.; Takahashi, O.; Furukawa, N. Recent Progress in Hypervalent Organochalcogenuranes Bearing Four Carbon Ligands. **1998**, *176*, 483–514.

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**41.** Rose-Munch, F.; Gagliardini, V.; Renard, C.; Rose, E. ( $\epsilon$ -6-Arene)Tricarbonylchromium and  $\epsilon$ -5-Cyclohexadienyl) Tricarbonylmanganese Complexes: Nucleophilic Substitutions. **1998**, *178–80*(1), 249–68.

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**46.** Le Floch, P.; Mathey, F. Transition Metals in Phosphinine Chemistry. **1998**, *178–80*(1), 771–91.

**47.** Fourmigue, M. Mixed Cyclopentadienyl/Dithiolene Complexes. **1998**, *178–80*(1), 823–64.

**48.** Rose, E.; Quelquejeu, M.; Kossanyi, A.; Boitrel, B. Synthesis of Biomimetic Heme Precursors. **1998**, *178–80*(2), 1407–31.

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**54.** Piozzi, F.; Bruno, M.; Rosselli, S. Further Furocrodanes from Teucrium Genus. **1998**, *48*(10), 2185–203.

**55.** Box, V. G. S. The Anomeric Effect of Monosaccharides and Their Derivatives. Insights from the New QVBM Molecular Mechanics Force Field. **1998**, *48*(11), 2389–417.

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**57.** Witkop, B. From the “Ordeal Bean” (*Physostigma Venenosum*) to the Ordeal of Alzheimer’s disease – Some of the Legacy of Percy Lavon Julian (1899–1975). **1998**, *49*, 9–27.

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**70.** Faulkner, D. J. Marine Natural Products. **1999**, *16*(2), 155–98.

**71.** Hanson, J. R. Diterpenoids. **1999**, *16*(2), 209–19.

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**110.** Gold, H. J. Bis(cyclopentadienyl)titanium(III) Chloride. **1999**, (1), 159.

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