Tetrahedron Symposia-in-Print

Series Editor

Professor H. H. Wasserman, Department of Chemistry, Yale University, P.O. Box 208107, New Haven, CT 06520-8107, U.S.A.

Tetrahedron Symposia-in-Print comprise collections of original research papers covering timely areas of organic chemistry.

Each symposium is organized by a Symposium Editor who will invite authors, active in the selected field, to submit original articles covering current research, complete with experimental sections. These papers will be rapidly reviewed and processed for publication by the Symposium Editor under the usual refereeing system.

Authors who have not already been invited, and who may have obtained recent significant results in the area of the announced symposium, may also submit contributions for Editorial consideration and possible inclusion. Before submitting such papers authors should send an abstract to the Symposium Editor for preliminary evaluation. Firm deadlines for receipt of papers will allow sufficient time for completion and presentation of ongoing work without loss of the freshness and timeliness of the research results.

Symposia-in-Print—already published

- 1. Recent trends in organic photochemistry, Albert Padwa, Ed. *Tetrahedron* **1981**, *37*, 3227–3420.
- New general synthetic methods, E. J. Corey, Ed. *Tetrahedron* 1981, 37, 3871–4119.
- 3. Recent developments in polycyclopentanoid chemistry, Leo A. Paquette, Ed. *Tetrahedron* **1981**, *37*, 4357–4559.
- 4. Biradicals, Josef Michl, Ed. Tetrahedron 1982, 38, 733-867.
- 5. Electron-transfer initiated reactions, Gary B. Schuster, Ed. *Tetrahedron* **1982**, *38*, 1025–1122.
- 6. The organic chemistry of animal defense mechanisms, Jerrold Meinwald, Ed. *Tetrahedron* **1982**, *38*, 1853–1970.
- 7. Recent developments in the use of silicon in organic synthesis, Hans Reich, Ed. *Tetrahedron* **1983**, *39*, 839–1009.
- Linear tetrapyrroles, Ray Bonnett, Ed. *Tetrahedron* 1983, 39, 1837–1954.
- Heteroatom-directed metallations in heterocyclic synthesis, George R. Newkome, Ed. *Tetrahedron* 1983, 39, 1955–2091.
- Recent aspects of the chemistry of β-lactams, J. E. Baldwin, Ed. *Tetrahedron* 1983, 39, 2445–2608.
- New spectroscopic techniques for studying metabolic processes, A. I. Scott, Ed. *Tetrahedron* 1983, 39, 3441–3626.
- 12. New developments in indole alkaloids, Martin E. Kuehne, Ed. *Tetrahedron* **1983**, *39*, 3627–3780.
- Recent aspects of the chemistry of nucleosides, nucleotides and nucleic acids, Colin B. Reese, Ed. *Tetrahedron* 1984, 40, 1–164.
- Bioorganic studies on receptor sites, Koji Nakanishi, Ed. *Tetrahedron* 1984, 40, 455–592.
- Synthesis of chiral non-racemic compounds, A. I. Meyers, Ed. *Tetrahedron* 1984, 40, 1213–1418.
- 16. Control of acyclic stereochemistry, Teruaki Mukaiyama, Ed. *Tetrahedron* **1984**, *40*, 2197–2344.
- Recent aspects of anthracyclinone chemistry, T. Ross Kelly, Ed. *Tetrahedron* 1984, 40, 4537–4794.
- The organic chemistry of marine products, Paul J. Scheuer, Ed. *Tetrahedron* 1985, 41, 979–1108.
- Recent aspects of carbene chemistry, Matthew Platz, Ed. *Tetrahedron* 1985, 41, 1423–1612.

- Recent aspects of singlet oxygen chemistry of photooxidation, Isao Saito and Teruo Matsuura, Eds. *Tetrahedron* 1985, 41, 2037–2236.
- 21. Synthetic applications of dipolar cycloaddition reactions. Wolfgang Oppolzer, Ed. *Tetrahedron* **1985**, *41*, 3447–3568.
- 22. Selectivity and synthetic applications of radical reactions, Bernd Giese, Ed. *Tetrahedron* **1985**, *41*, 3887–4302.
- Recent aspects of organoselenium chemistry, Dennis Liotta, Ed. *Tetrahedron* 1985, 41, 4727–4890.
- Application of newer organometallic reagents to the total synthesis of natural products, Martin Semmelhack, Ed. *Tetrahedron* 1985, 41, 5741–5900.
- Formal transfers of hydride from carbon-hydrogen bonds, James D. Wuest, Ed. *Tetrahedron* 1986, 42, 941–1208.
- Synthesis of non-natural products: challenge and reward, Philip E. Eaton, Ed. *Tetrahedron* 1986, 42, 1549–1916.
- 27. New synthetic methods—II, F. E. Ziegler, Ed. *Tetrahedron* **1986**, *42*, 2777–3028.
- Structure and reactivity of organic radical ions, Heinz D. Roth, Ed. *Tetrahedron* 1986, 42, 6097–6350.
- Organic chemistry in anisotropic media, V. Ramamurthy, J. R. Scheffer and N. J. Turro, Eds. *Tetrahedron* 1987, 43, 1197–1746.
- Current topics in sesquiterpene synthesis, John W. Huffman, Ed. *Tetrahedron* 1987, 43, 5467–5722.
- Peptide chemistry: design and synthesis of peptides, conformational analysis and biological functions, Victor J. Hruby and Robert Schwyzer, Eds. *Tetrahedron* 1988, 44, 661–1006.
- Organosilicon chemistry in organic synthesis, Ian Fleming, Ed. *Tetrahedron* 1988, 44, 3761–4292.
- 33. α-Amino acid synthesis, Martin J. O'Donnell, Ed. *Tetrahedron* 1988, 44, 5253-5614.
- Physical-organic/theoretical chemistry: the Dewar interface, Nathan L. Bauld, Ed. *Tetrahedron* 1988, 44, 7335–7626.
- 35. Recent developments in organocopper chemistry, Bruce H. Lipshutz, Ed. *Tetrahedron* **1989**, *45*, 349–578.
- Organotin compounds in organic synthesis, Yoshinori Yamamoto, Ed. *Tetrahedron* 1989, 45, 909–1230.

- 37. Mycotoxins, Pieter S. Steyn, Ed. *Tetrahedron* **1989**, *45*, 2237–2464.
- Strain-assisted syntheses, Léon Ghosez, Ed. Tetrahedron 1989, 45, 2875–3232.
- Covalently linked donor-acceptor species for mimicry of photosynthetic electron and energy transfer, Devens Gust and Thomas A. Moore, Eds. *Tetrahedron* 1989, 45, 4669–4912.
- Aspects of modern carbohydrate chemistry, S. Hanessian, Ed. *Tetrahedron* 1990, 46, 1–290.
- 41. Nitroalkanes and nitroalkenes in synthesis, Anthony G. M. Barrett, Ed. *Tetrahedron* **1990**, *46*, 7313–7598.
- Synthetic applications of anodic oxidations, John S. Swenton and Gary W. Morrow, Eds. *Tetrahedron* 1991, 47, 531–906.
- Recent advances in bioorganic chemistry, Dale L. Boger, Ed. *Tetrahedron* 1991, 47, 2351–2682.
- 44. Natural product structure determination, R. B. Bates, Ed. *Tetrahedron* **1991**, *47*, 3511–3664.
- Frontiers in natural products biosynthesis. Enzymological and molecular genetic advances, D. E. Cane, Ed. *Tetrahedron* 1991, 47, 5919–6078.
- 46. New synthetic methods—III, S. E. Denmark, Ed. *Tetrahedron* **1992**, *48*, 1959–2222.
- Organotitanium reagents in organic chemistry, M. T. Reetz, Ed. *Tetrahedron* 1992, 48, 5557–5754.
- Total and semi-synthetic approaches to taxol, J. D. Winkler, Ed. *Tetrahedron* 1992, 48, 6953–7056.
- Synthesis of optically active compounds—prospects for the 21st century, Kenji Koga and Takayuki Shioiri, Eds. *Tetrahedron* 1993, 49, 1711–1924.
- 50. Peptide secondary structure mimetics, Michael Kahn, Ed. *Tetrahedron* **1993**, *49*, 3433–3689.
- 51. Transition metal organometallics in organic synthesis, Anthony J. Pearson, Ed. *Tetrahedron* **1993**, *49*, 5415–5682.
- 52. Palladium in organic synthesis, Jan-E. Bäckvall, Ed. *Tetrahedron* **1994**, *50*, 285–572.
- Recent progress in the chemistry of enediyne antibiotics, Terrence W. Doyle and John F. Kadow, Eds. *Tetrahedron* 1994, 50, 1311–1538.
- Catalytic asymmetric addition reactions, Stephen F. Martin, Ed. *Tetrahedron* 1994, 50, 4235–4574.
- Mechanistic aspects of polar organometallic chemistry, Manfred Schlosser, Ed. *Tetrahedron* 1994, 50, 5845–6128.
- Molecular recognition, Andrew D. Hamilton, Ed. *Tetrahedron* 1995, 51, 343–648.
- Recent advances in the chemistry of zirconocene and related compounds, Ei-ichi Negishi, Ed. *Tetrahedron* 1995, 51, 4255–4570.
- Fluoroorganic chemistry: synthetic challenges and biomedicinal rewards, Giuseppe Resnati and Vadim A. Soloshonok, Eds. *Tetrahedron* 1996, 52, 1–330.
- 59. Novel applications of heterocycles in synthesis, A. R. Katritzky, Ed. *Tetrahedron* **1996**, *52*, 3057–3374.
- Fullerene chemistry, Amos B. Smith III, Ed. *Tetrahedron* 1996, 52, 4925–5262.
- New synthetic methods—IV. Organometallics in organic chemistry, István E. Markó, Ed. *Tetrahedron* 1996, 52, 7201–7598.
- 62. Cascade reactions, Ron Grigg, Ed. *Tetrahedron* **1996**, *52*, 11385–11664.
- Applications of solid-supported organic synthesis in combinatorial chemistry, James A. Bristol, Ed. *Tetrahedron* 1997, 53, 6573–6706.

- Recent applications of synthetic organic chemistry, Stephen F. Martin, Ed. *Tetrahedron* 1997, 53, 8689–9006.
- Chemical biology, Gregory L. Verdine and Julian Simon, Eds. *Tetrahedron* 1997, 53, 11937–12066.
- Recent aspects of S, Se, and Te chemistry, Richard S. Glass and Renji Okazaki, Eds. *Tetrahedron* 1997, 53, 12067–12318.
- Modern organic chemistry of polymerization, H. K. Hall Jr., Ed. *Tetrahedron* 1997, *53*, 15157–15616.
- New synthetic methods—V, John L. Wood, Ed. *Tetrahedron* 1997, 53, 16213–16606.
- New developments in organonickel chemistry, Bruce H. Lipshutz and Tien-Yau Luh, Eds. *Tetrahedron* 1998, 54, 1021–1316.
- Solution phase combinatorial chemistry, David L. Coffen, Ed. *Tetrahedron* 1998, 54, 3955–4150.
- Heterocycles in asymmetric synthesis, Alexandre Alexakis, Ed. *Tetrahedron* 1998, 54, 10239–10554.
- Recent advances of phase-transfer catalysis, Takayuki Shioiri, Ed. *Tetrahedron* 1999, 55, 6261–6402.
- Olefin metathesis in organic synthesis, Marc L. Snapper and Amir H. Hoveyda, Eds. *Tetrahedron* 1999, 55, 8141–8262.
- Stereoselective carbon–carbon bond forming reactions, Harry H. Wasserman, Stephen F. Martin and Yoshinori Yamamoto, Eds. *Tetrahedron* 1999, 55, 8589–9006.
- Applications of combinatorial chemistry, Miles G. Siegel and Stephen W. Kaldor, Eds. *Tetrahedron* 1999, 55, 11609– 11710.
- Advances in carbon-phosphorus heterocyclic chemistry, François Mathey, Ed. *Tetrahedron* 2000, 56, 1–164.
- Transition metal organometallics in organic synthesis, Kenneth M. Nicholas, Ed. *Tetrahedron* 2000, 56, 2103–2338.
- Organocopper chemistry II, Norbert Krause, Ed. *Tetrahedron* 2000, 56, 2727–2904.
- Carbene complexes in organic chemistry, James W. Herndon, Ed. *Tetrahedron* 2000, 56, 4847–5044.
- Recent aspects of the chemistry of β-lactams—II, Marvin J. Miller, Ed. *Tetrahedron* 2000, 56, 5553–5742.
- Molecular assembly and reactivity of organic crystals and related structures, Miguel A. Garcia-Garibay, Vaidhyanathan Ramamurthy and John R. Scheffer, Eds. *Tetrahedron* 2000, 56, 6595–7050.
- Protein engineering, Richard Chamberlin, Ed. *Tetrahedron* 2000, 56, 9401–9526.
- Recent advances in peptidomimetics, Jeffrey Aubé, Ed. *Tetrahedron* 2000, 56, 9725–9842.
- New synthetic methods—VI, George A. Kraus, Ed. *Tetrahedron* 2000, 56, 10101–10282.
- Oxidative activation of aromatic rings: an efficient strategy for arene functionalization, Stéphane Quideau and Ken S. Feldman, Eds. *Tetrahedron* 2001, *57*, 265–424.
- Lewis acid control of asymmetric synthesis, Keiji Maruoka, Ed. *Tetrahedron* 2001, *57*, 805–914.
- Novel aromatic compounds, Lawrence T. Scott and Jay S. Siegel, Eds. *Tetrahedron* 2001, 57, 3507–3808.
- Asymmetric synthesis of novel sterically constrained amino acids, Victor J. Hruby and Vadim A. Soloshonok, Eds. *Tetrahedron* 2001, 57, 6329–6650.
- Recognition-mediated self-assembly of organic systems, Vincent M. Rotello, Ed. *Tetrahedron* 2002, 58, 621–844.
- Synthesis of marine natural products containing polycyclic ethers, Masahiro Hirama and Jon D. Rainier, Eds. *Tetrahedron* 2002, 58, 1779–2040.

496

- 91. Fluorous chemistry, John A. Gladysz and Dennis P. Curran, Eds. *Tetrahedron* **2002**, *58*, 3823–4132.
- 92. Recent developments in chiral lithium amide base chemistry, Peter O'Brien, Ed. *Tetrahedron* **2002**, *58*, 4567–4734.
- Beyond natural product synthesis (Tetrahedron Prize for Creativity in Organic Chemistry 2001 - Yoshito Kishi), Harry H. Wasserman and Stephen F. Martin, Eds. *Tetrahedron* 2002, 58, 6223–6602.
- Strained heterocycles as intermediates in organic synthesis, Amy R. Howell, Ed. *Tetrahedron* 2002, 58, 6979–7194.
- Molecular design of Lewis and Brønsted acid catalysts—the key to environmentally benign reagents (Tetrahedron Chair 2002), Hisashi Yamamoto, Ed. *Tetrahedron* 2002, 58, 8153– 8364.
- Recent developments in dendrimer chemistry, David K. Smith, Ed. *Tetrahedron* 2003, 59, 3787–4024.

- Art, science and technology in total synthesis (Tetrahedron Prize for Creativity in Organic Chemistry 2002 - K. C. Nicolaou), Stephen F. Martin and Harry H. Wasserman, Eds. *Tetrahedron* 2003, 59, 6667–7070.
- New synthetic methods—VII, Brian M. Stoltz, Ed. *Tetrahedron* 2003, 59, 8843–9030.
- Oxiranyl and aziridinyl anions as reactive intermediates in synthetic organic chemistry, S. Florio, Ed. *Tetrahedron* 2003, 59, 9683–9864.
- Recent advances in rare earth chemistry, Shū Kobayashi, Ed. *Tetrahedron* 2003, 59, 10339–10598.
- Biocatalysts in synthetic organic chemistry, S. M. Roberts, Ed. *Tetrahedron* 2004, *60*, 483–806.