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Theilheimer's Synthetic Methods of Organic Chemistry

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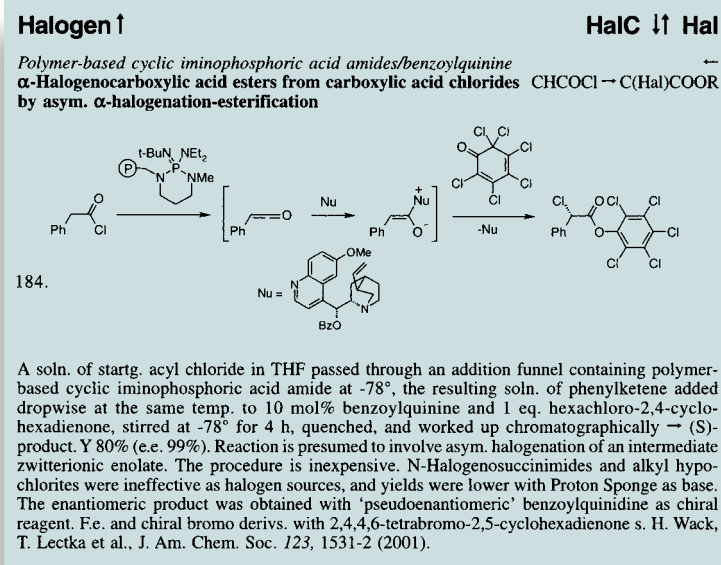
- gain access to specific methodologies
- keep abreast of developments in established reactions
- browse for information in a generic sense

500 informative abstracts per volume describe new reactions and synthetic methods reported in the world-wide scientific literature. Each abstract is introduced with a concise title, followed by a clear depiction of a typical reaction, the corresponding experimental section, and comments on scope, limitation and any specific advantages.

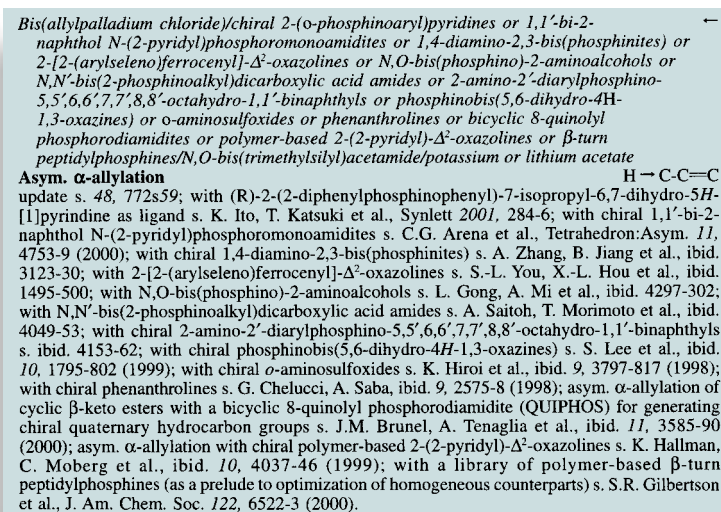
Numerous supplementary references provide updates on established procedures. Each Theilheimer volume is supported by an *in-depth, heavily cross-referenced Subject Index*, uniquely devised for functional group retrieval, and enabling the user to locate reactions from both the product and starting material aspects.

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Sample abstract – with special emphasis on key reactive intermediates, supported by pertinent comments on particular features, strengths and limitations.



Sample supplementary data – for updating existing methods.



Sample reviews

Theilheimer's Synthetic Methods of Organic Chemistry provides a reviews section and an overview of current trends in synthetic organic chemistry.

- 5, 666 **NMR methods** for determination of **enantiomeric excess**, R. Rothchild, *Enantiomer* 5, 457-71 (2000).
- 7, 281 **Calixarenes** bearing azaaromatic moieties, W. Sliwa, *Heterocycles* 55, 181-99 (2001).
- 7, 823 **Pyrrolidinetrione derivs.**: synthesis and applications in heterocyclic chemistry, B. Zaleska, S. Lis, *Synthesis* 2001, 811-27.
- 8, 927 **Polymeric scavenger reagents** in organic synthesis, J. Eames, M. Watkinson, *Eur. J. Org. Chem.* 2001, 1213-24.
- 11, 744 **Intramolecular carbocyclization** of 1,5-diketones and oxo-1,5-diketones, V.G. Kharchenko, N.V. Pchelintseva, L.I. Markova, *Russ. J. Org. Chem.* 36, 919-42 (2000).
- 12, 653 **Nucleophilic addition of hydrogen sulfide and thiols** to diacetylene alcohols and diols, A.N. Volkov, B.A. Trofimov et al., *Sulfur Reports* 22, 195-214 (2000).
- 14, 711 **α,β-Ethylenephosphonic acid ester α-carbanions** in synthesis, T. Minami et al., *Synthesis* 2001, 349-57.
- 16, 698 New developments in the chemistry of **organoantimony and bismuth rings**, H.J. Breunig, R. Rosler, *Chem. Soc. Rev.* 29, 403-10 (2000).
- 16, 820 New concepts in **tetrathiafulvalene chemistry**, J.L. Segura, N. Martín, *Angew. Chem. Int. Ed. Engl.* 40, 1372-409 (2001).
- 16, 888 Regio- and stereo-chemistry of **1,3-dipolar cycloaddition of nitrile oxides to alkenes**, R.P. Litvinovskaya, V.A. Khripach, *Russ. Chem. Rev.* 70, 464-85 (2001); 1,3-dipolar cycloaddition with chiral allyl ethers, L. Raimondi, M. Benaglia, *Eur. J. Org. Chem.* 2001, 1033-43.
- 17, 169 Biocatalytic selective **modifications of conventional nucleosides**, carbocyclic nucleosides, and C-nucleosides, M. Ferrero, V. Gotor, *Chem. Rev.* 100, 4319-47 (2000); **synthesis of glycopeptides** containing carbohydrate and peptide recognition motifs, H. Herzner, H. Kunze et al., *ibid.* 4495-537; synthesis of **complex carbohydrates and glycoconjugates**: enzyme-based and programmable one-pot strategies, K.M. Koeller, C.-H. Wong, *ibid.* 4465-93; methods for **anomeric carbon-linked and fused sugar amino acid synthesis**: the gateway to artificial glycopeptides, A. Dondoni, A. Marra, *ibid.* 4395-421; **peptide nucleic acids**: analogs and derivs., K.N. Ganesh, P.E. Nielsen, *Curr. Org. Chem.* 4, 931-43 (2000).
- 19, 33 Contemporary methods for **peptide and protein synthesis**, S. Aimoto, *Curr. Org. Chem.* 5, 45-87 (2001); synthesis of peptides by solution methods, Y. Okada, *ibid.* 1-43; efficient syntheses of biologically active peptides of aquatic origin involving unusual α-amino acids, T. Shioiri, Y. Hamada, *Synlett* 2001, 184-201; development and application of expressed **protein ligation**, T.W. Muir, *ibid.* 733-40; combinatorial methods for the discovery and **optimisation of homogeneous catalysts**, S. Dahmen, S. Bräse, *Synthesis* 2001, 1431-49.

Sample subject indexing

– with dual aspects from the perspective of both starting materials and products, and heavy cross-referencing with a consistent nomenclature.

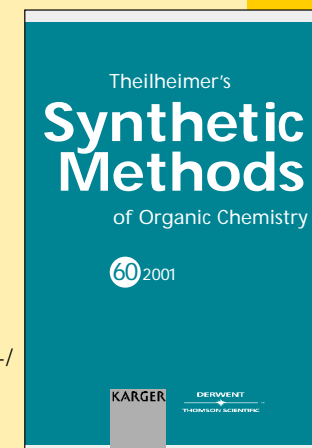
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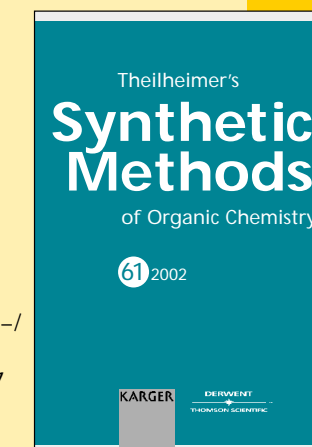
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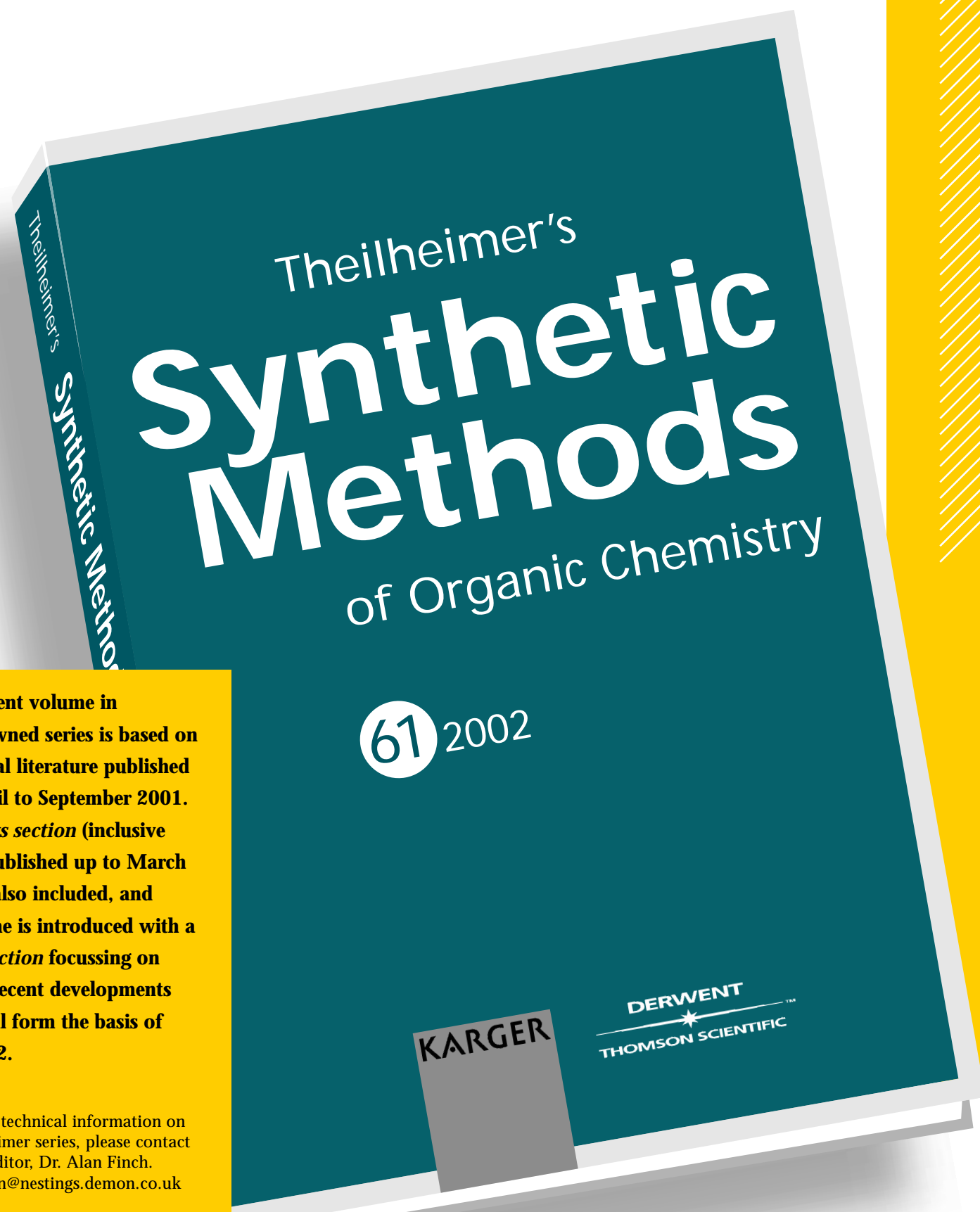
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For further technical information on the Theilheimer series, please contact the series editor, Dr. Alan Finch.
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