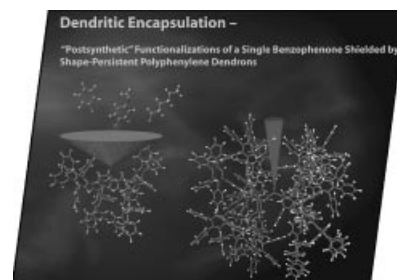


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COVER PICTURE

The cover picture shows shape-persistent first- and second-generation polyphenylene dendrimers grown from a single benzophenone unit as core. To investigate the influence of the size and the density of the dendritic shell upon the reactivity of the core, “postsynthetic” chemical functionalizations with reagents of different size as well as alkali-metal reduction of the encapsulated benzophenone were performed. Details are discussed in the article by K. Müllen et al. on p. 2523 ff.



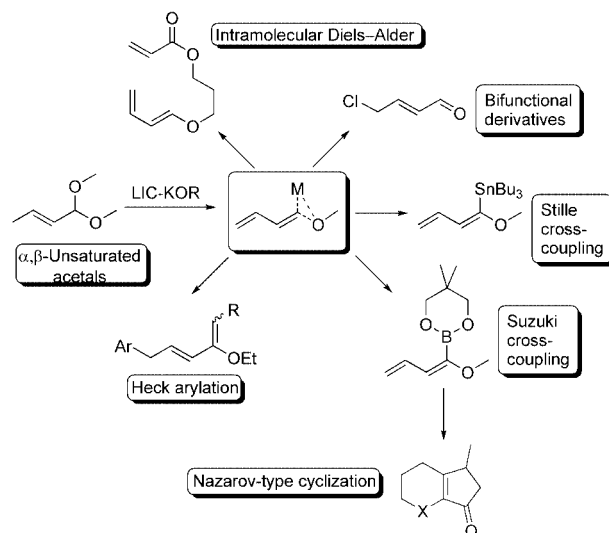
MICROREVIEWS

Contents

2463 A. Deagostino, C. Prandi, C. Zavattaro,
 P. Venturello*

Functionalized 1-Alkoxy-1,3-dienes: Their Preparation and Applications in Synthetic Organic Chemistry

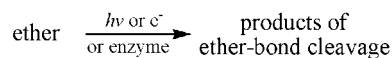
Keywords: Arylation / Conjugation / Cross-coupling / Dienes / Elimination



2485 A. Stolarzewicz,* Z. Grobelny, W. Pisarski,
B. Łosiewicz, B. Piekarnik, A. Swinarew

Photochemical, Electrochemical and Enzymatic
Methods for Ether-Bond Cleavage

Keywords: Bond cleavage / Electrochemistry / En-
zymes / Photochemistry

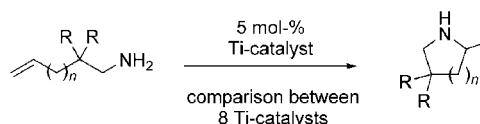


SHORT COMMUNICATIONS

2499 C. Müller, C. Loos, N. Schulenberg,
S. Doye*

Neutral Ti Catalysts for the Intramolecular
Hydroamination of Alkenes

Keywords: Alkenes / Amines / Homogeneous cataly-
sis / Hydroamination / Titanium

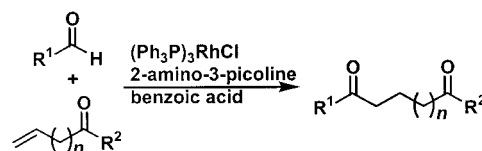


2504 E.-A. Jo, C.-H. Jun*



One-Pot Synthesis of Oxo Acid Derivatives by
Rh^I-Catalyzed Chelation-Assisted Hydro-
acylation

Keywords: Homogeneous catalysis / C-H activation /
Acylation / Rhodium



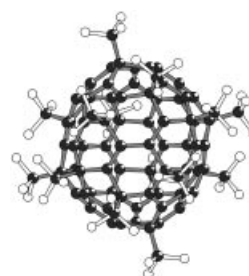
R¹ = aliphatic, or aromatic; R² = OMe, OEt, NMe₂, etc.
n = 0, 1, 2

2508 A. A. Goryunkov, D. V. Ignat'eva,
N. B. Tamm, N. N. Moiseeva, I. N. Ioffe,
S. M. Avdoshenko, V. Y. Markov,
L. N. Sidorov, E. Kemnitz, S. I. Troyanov*



Preparation, Crystallographic Characterization,
and Theoretical Study of C₇₀(CF₃)₁₄

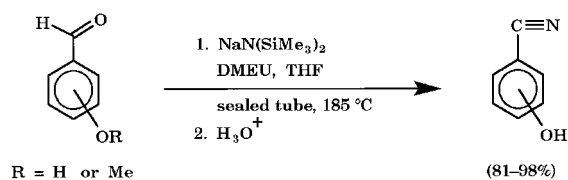
Keywords: Fullerene / Trifluoromethylation / Structure
elucidation / DFT



2513 J. R. Hwu,* F. F. Wong

Sodium Bis(trimethylsilyl)amide in the Oxidative
Conversion of Aldehydes to Nitriles

Keywords: Aldehydes / Nitriles / Nucleofuge / Oxi-
dation / Sodium bis(trimethylsilyl)amide

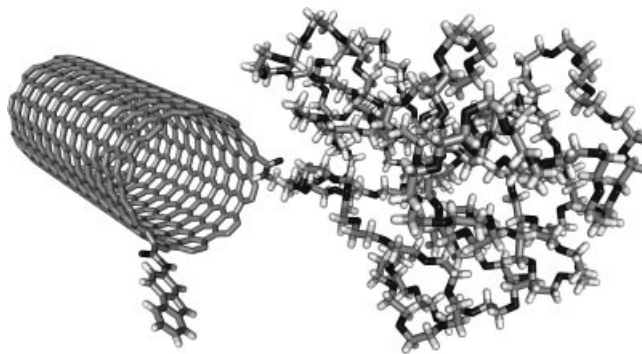


2517 M. D'Este, M. De Nardi, E. Menna*



A Co-Functionalization Approach to Soluble and Functional Single-Walled Carbon Nanotubes

Keywords: Nanotubes / Synthetic methods / Amides / Fluorescence spectroscopy

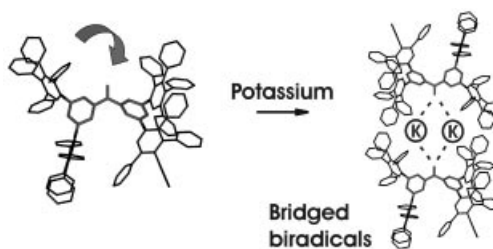


FULL PAPERS

2523 S. Bernhardt, M. Baumgarten, K. Müllen*

Dendritic Encapsulation – “Postsynthetic” Functionalizations of a Single Benzophenone Shielded by Shape-Persistent Polyphenylene Dendrons

Keywords: Dendrimer / Encapsulation / Polyphenylene / Benzophenone / Steric hindrance

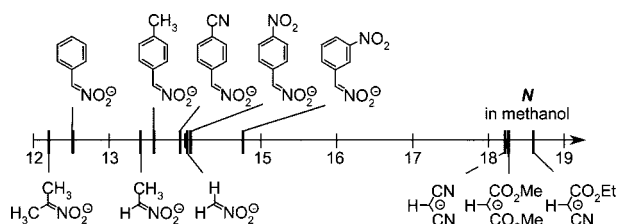


2530 T. B. Phan, H. Mayr*



Nucleophilicity Parameters for Carbanions in Methanol

Keywords: Kinetics / Carbanion / Linear free energy relationship / Nucleophilicity

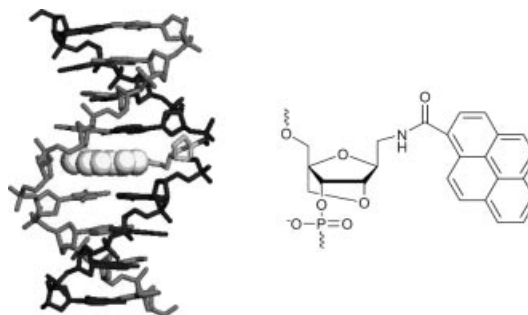


2538 C. Verhagen, T. Bryld, M. Raunkjær, S. Vogel, K. Buchalová, J. Wengel*



A Conformationally Locked Aminomethyl C-Glycoside and Studies on Its *N*-Pyren-1-yl-carbonyl Derivative Inserted into Oligodeoxynucleotides

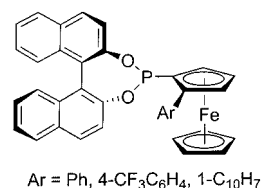
Keywords: C-Glycosides / Pyrenes / Oligodeoxynucleotides / LNA / Locked nucleic acid



2549 V. E. Albrow, A. J. Blake, R. Fryatt, C. Wilson, S. Woodward*

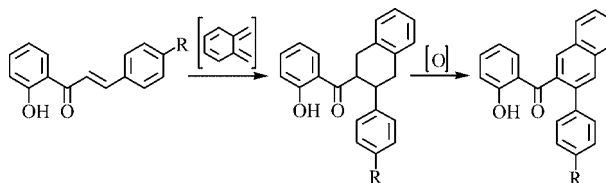
Aryl Ferrophites – A New Class of Ligands for Asymmetric Catalysis

Keywords: Ferrocenyl ligands / P ligands / Phosphites / Asymmetric catalysis



- 2558** C. M. Brito, D. G. A. Pinto, A. M. S. Silva,*
A. M. G. Silva, A. C. Tomé,
J. A. S. Cavaleiro

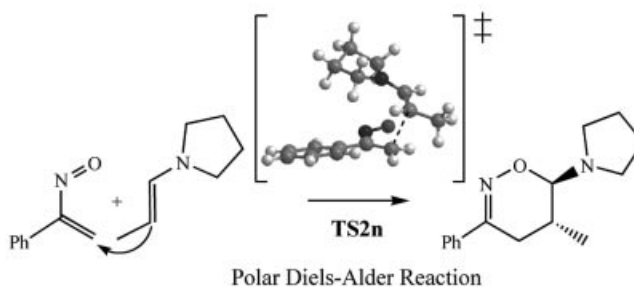
Diels–Alder Reactions of 2'-Hydroxychalcones with *ortho*-Benzoquinodimethane: A New Synthesis of 3-Aryl-2-naphthyl 2-Hydroxyphenyl Ketones



Keywords: 2-Naphthyl ketones / Benzophenones / Diels–Alder reactions / Microwave irradiation / Benzoxanthenes

- 2570** L. R. Domingo,* M. T. Picher, P. Arroyo

Towards an Understanding of the Polar Diels–Alder Reactions of Nitrosoalkenes with Enamines: A Theoretical Study

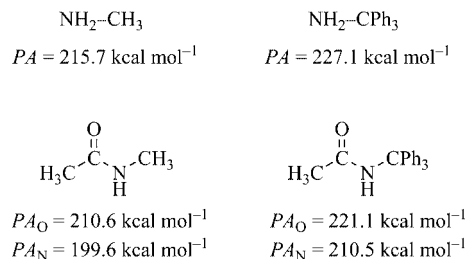


Keywords: Diels–Alder reactions / Nitrosoethylenes / Reaction mechanisms / Electrophilicity / Density functional calculations

- 2581** R. Vianello,* H. Maskill, Z. B. Maksić

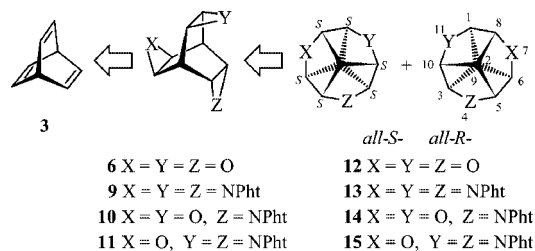
Basicity of Amines in the Gas Phase – Analysis of the Base-Strengthening Effect of an *N*-Trityl Group by Use of a Triadic Formula

Keywords: Base strength / Proton affinity / Triadic formula / ab initio MO calculation / Tritylamine / Steric hindrance



- 2590** S. I. Kozhushkov, T. Preuß, D. S. Yufit,
J. A. K. Howard, K. Meindl, S. Rühl,
C. Yamamoto, Y. Okamoto, P. R. Schreiner,
B. C. Rinderspacher, A. de Meijere*

4,7,11-Triheterotrishomocubanes – Propeller-Shaped Highly Symmetrical Chiral Molecules Derived from Barrelene

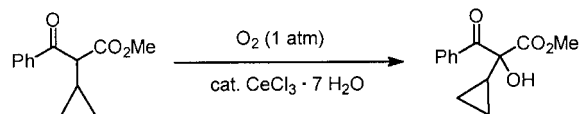


Keywords: Barrelene / Chirality / Epoxidation / Rearrangement / Small ring systems / Structure elucidation

2601 J. Christoffers,* T. Kauf, T. Werner,
M. Rössle

Cerium-Catalyzed α -Hydroxylation Reactions of α -Cyclopropyl β -Dicarbonyl Compounds with Molecular Oxygen

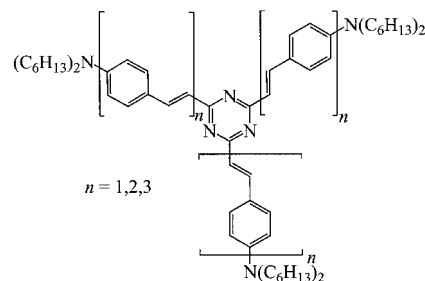
Keywords: Cerium / Catalysis / Dicarbonyl compounds / Oxidation / Dioxygen / Cyclopropane derivatives



2609 H. Meier,* E. Karpuk, H. C. Holst

Star-Shaped Push-Pull Compounds Having 1,3,5-Triazine Cores

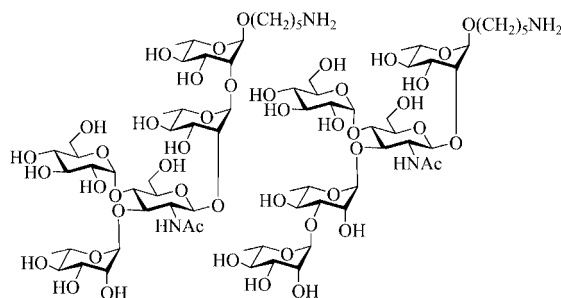
Keywords: Absorption / Conjugation / Protonation / Push-pull effects



2618 G. Lemanski, T. Ziegler*

Synthesis of Pentasaccharide Fragments Related to the *O*-Specific Polysaccharide of *Shigella flexneri* Serotype 1a

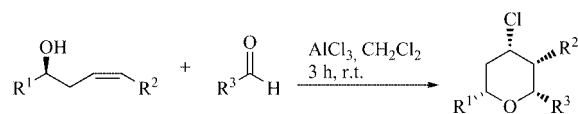
Keywords: Carbohydrates / Glycosylation / Oligosaccharides / Spacers



2631 U. Biermann, A. Lützen, J. O. Metzger*

Synthesis of Enantiomerically Pure 2,3,4,6-Tetrasubstituted Tetrahydropyrans by Prins-Type Cyclization of Methyl Ricinoleate and Aldehydes

Keywords: Aldehydes / Chiral pool / Cyclization / Diastereoselectivity / Renewable feedstocks / Tetrahydropyrans

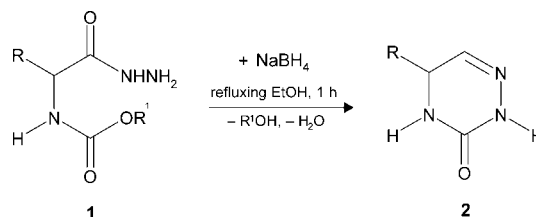


$R^1 = R^3 = (CH_2)_5CH_3$; $R^2 = (CH_2)_7COOCH_3$

2638 G. Verardo,* P. Geatti, M. Merli,
P. Strazzolini

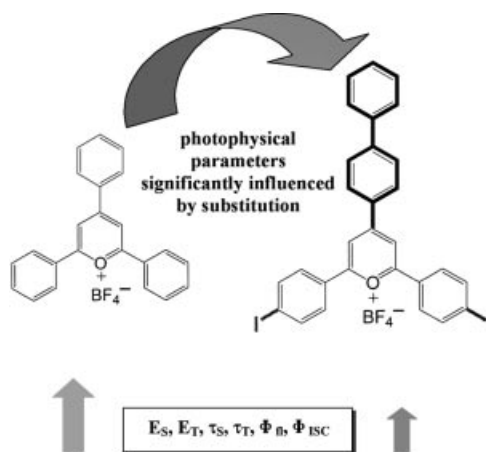
5-Substituted 4,5-Dihydro-1,2,4-triazin-3(2*H*)-ones from the Unprecedented Reaction between α -*N*-Protected Amino Acid Hydrazides and $NaBH_4$

Keywords: Amino acids / Hydrazides / Heterocycles / Sodium borohydride / Cyclization–reduction reactions



2644 M. Álvaro, C. Aprile, E. Carbonell,
B. Ferrer, H. García*

Synthesis and Photophysical Properties of the
4-(Biphenyl-4-yl)-2,6-bis(4-iodophenyl)pyrylium
Ion

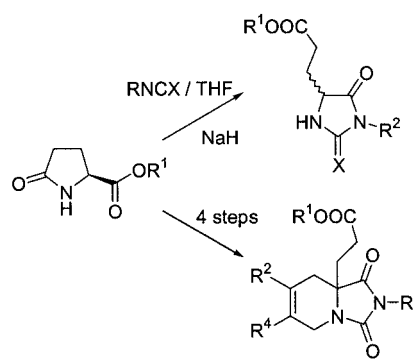


Keywords: Pyrylium / Thiapyrylium / Photosensitizer /
PET (Photoinduced electron transfer)

2649 N. Dieltiens, D. D. Claeys, V. V. Zhdankin,
V. N. Nemykin, B. Allaert, F. Verpoort,
C. V. Stevens*

The Pyroglutamate Hydantoin Rearrangement

Keywords: Nitrogen heterocycles / Lactams / Fused-
ring systems / Rearrangement / Pyro-
glutamates / Hydantoins / Ring-closing
metathesis / Isocyanates



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