

174,  
S98/a

# SYNLETT

Accounts and Rapid Communications in Synthetic Organic Chemistry

## Synpacts

*D. Gillingham, K. Tishinov*  
Synthesis of Nucleic Acid Polymers  
with Non-Canonical Nucleobases

*K. N. Plunkett*  
What About the Five-Membered Ring?  
Cyclopenta-fused Polycyclic Aromatic  
Hydrocarbons as a Building Block for  
Functional Materials

## Accounts

*T. K. Olszewski, M. Bieniek,  
K. Skowerski, K. Grela*  
A New Tool in the Toolbox: Electron-  
Withdrawing Group Activated  
Ruthenium Catalysts for Olefin  
Metathesis

*C. Romero-Nieto, T. Baumgartner*  
Dithieno[3,2-*b*:2',3'-*d'*]phospholes:  
A Look Back at the First Decade

2013 • Vol. 24, 893–1024

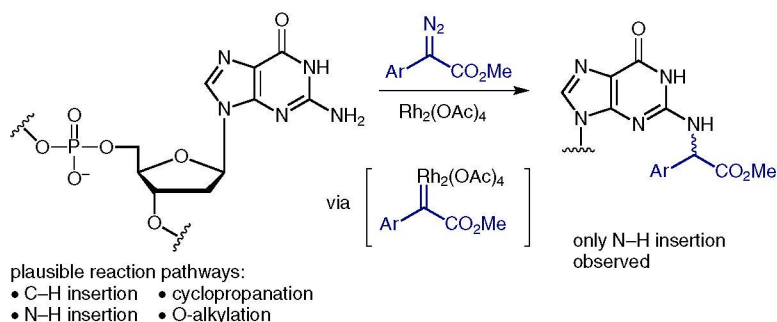
May 16, 2013



Thieme

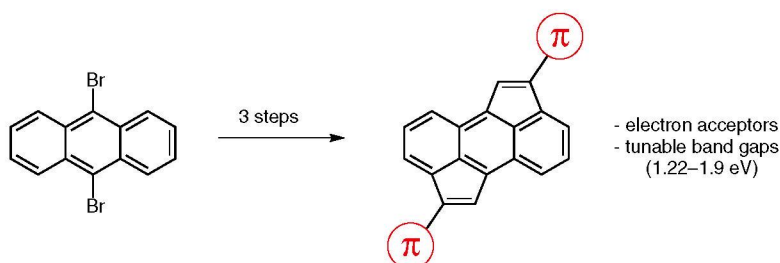
893 D. Gillingham\*  
K. Tishinov

## Synthesis of Nucleic Acid Polymers with Non-Canonical Nucleobases



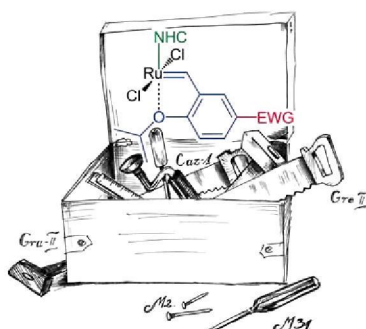
898 K. N. Plunkett\*

## What About the Five-Membered Ring? Cyclopenta-fused Polycyclic Aromatic Hydrocarbons as a Building Block for Functional Materials



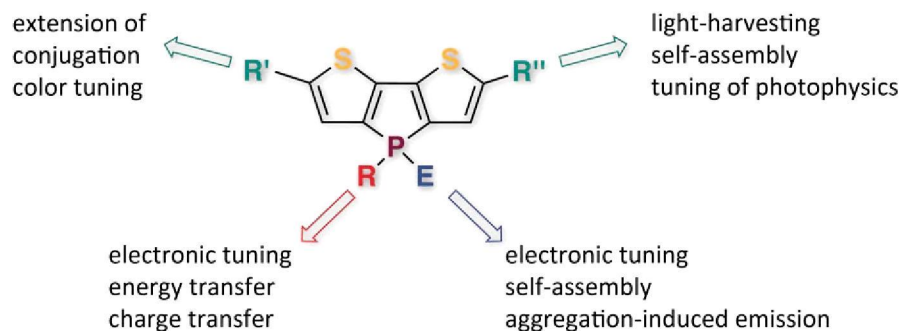
903 T. K. Olszewski  
M. Bieniek  
K. Skowerski  
K. Grela\*

## A New Tool in the Toolbox: Electron-Withdrawing Group Activated Ruthenium Catalysts for Olefin Metathesis



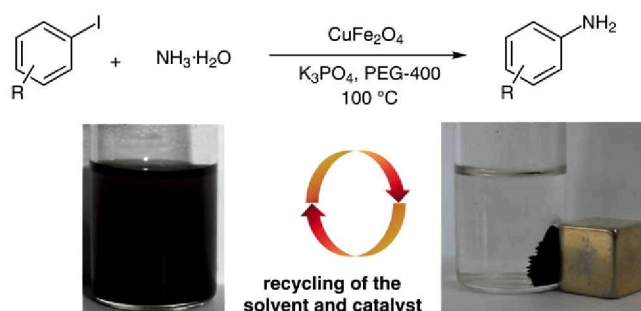
920 C. Romero-Nieto\*  
T. Baumgartner\*

### Dithieno[3,2-*b*:2',3'-*d*]phospholes: A Look Back at the First Decade



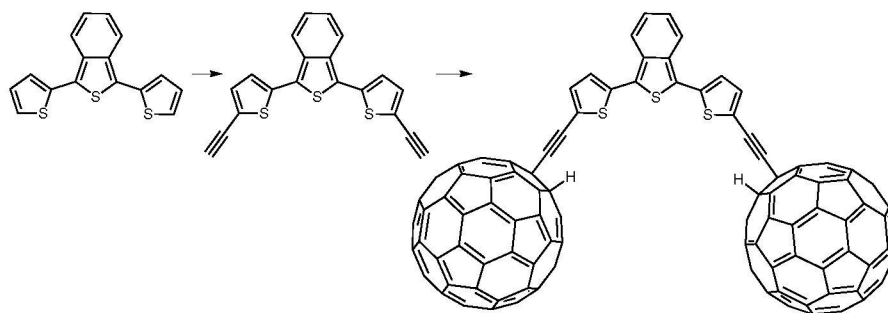
938 A. S. Kumar  
T. Ramani  
B. Sreedhar\*

### Magnetically Separable CuFe<sub>2</sub>O<sub>4</sub> Nanoparticles in PEG: A Recyclable Catalytic System for the Amination of Aryl Iodides



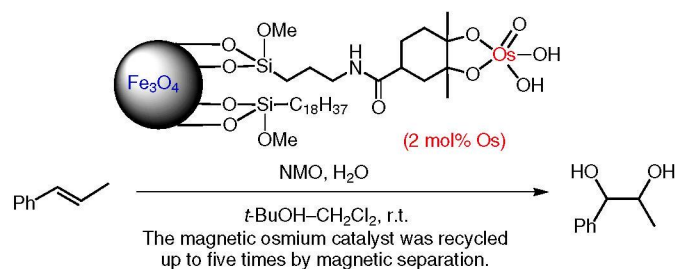
943 M. D'Auria\*  
A. Guarnaccio  
R. Racioppi  
A. Santagata  
R. Teghil

### Synthetic Approach to and Characterization of a Fullerene–DTBT–Fullerene Triad



947 K.-i. Fujita\*  
S. Umeki  
H. Yasuda

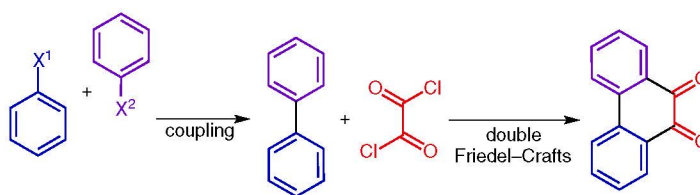
### Magnetically Recoverable Osmium Catalysts with Osmium–Diolate Esters for Dihydroxylation of Olefins





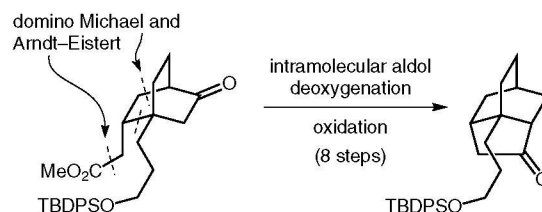
- 951 N. Crosta  
S. Müller  
D. Gradl  
K.-S. Masters\*  
S. Bräse\*

**Rediscovering the Double Friedel–Crafts Acylation: An Expedient Entry to Phenanthrene-9,10-diones**



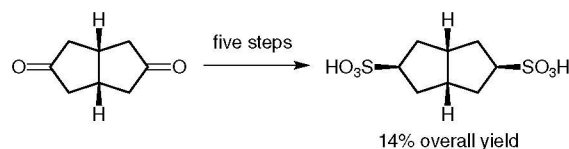
- 955 D. Gaugele  
M. E. Maier\*

**Approach to the Core Structure of the Polycyclic Alkaloid Palhinine A**



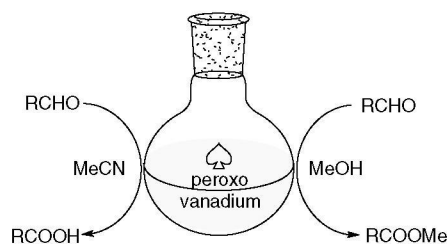
- 959 T. W. T. Muesmann  
M. S. Wickleder  
C. Zitzer  
J. Christoffers\*

**Octahydropentalene 2,5-Disulfonic Acid – A New Linker Molecule for Coordination Polymers**



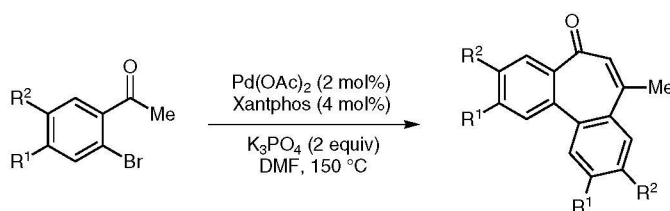
- 963 D. Talukdar  
K. Sharma  
S. K. Bharadwaj  
A. J. Thakur\*

**VO(acac)<sub>2</sub>: An Efficient Catalyst for the Oxidation of Aldehydes to the Corresponding Acids in the Presence of Aqueous H<sub>2</sub>O<sub>2</sub>**



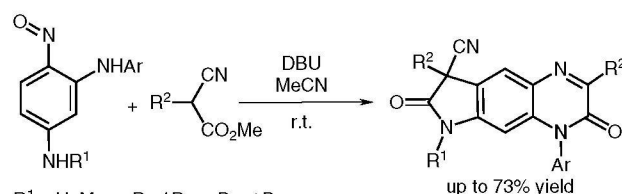
- 967 J. Krishna  
A. Gopi Krishna Reddy  
G. Satyanarayana\*

**A Domino Palladium Catalysis: Synthesis of 7-Methyl-5H-dibenzo[*a,c*][7]annulen-5-ones**



- 973 M. Królikiewicz  
P. Cmoch  
Z. Wróbel\*

**A Short Preparation of Pyrroloquinoxalinones via a Cascade Reaction of *N*-Aryl-5-alkylamino-2-nitrosoanilines with Methyl 2-Cyanoalkanoates: Unexpected Direction of Nucleophilic Substitution of Hydrogen**



R<sup>1</sup> = H, Me, *n*-Pr, *i*-Pr, *n*-Bu, *t*-Bu  
R<sup>2</sup> = Me, Et, *i*-Pr, *n*-Bu  
Ar = Ph substituted with 4-F, 4-Cl, 4-Me, 4-OEt, 2,6-Me<sub>2</sub>

- 977 B. Eftekhari-Sis\*  
S. V. Khajeh  
O. Büyükgüngör

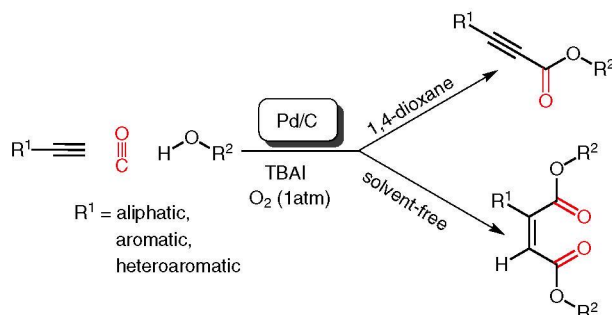
**Synthesis of  $\alpha$ -Ketothioamides via Willgerodt–Kindler Reaction of Aryl glyoxals with Amines and Sulfur under Solvent-Free Conditions**



X = H, 4-Br, 4-Cl, 3-OMe, 4-OMe, 3,4-(OMe)<sub>2</sub>, 4-NO<sub>2</sub>, 4-Ph  
R<sub>2</sub>NH = NH, NH, NH

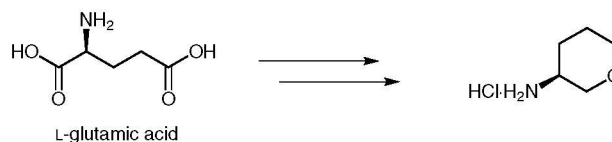
- 981 S. T. Gadge  
B. M. Bhanage\*

**Synthesis of  $\alpha,\beta$ -Alkynyl Esters and Unsymmetrical Maleate Esters Catalyzed by Pd/C: An Efficient Phosphine-Free Catalytic System for Oxidative Alkoxy carbonylation of Terminal Alkynes**



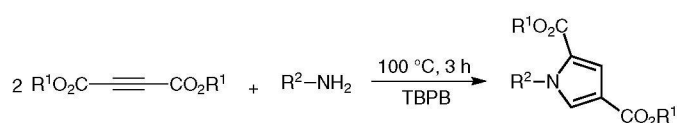
- 987 S. Savage\*  
S. Babu  
M. Zak  
Z. Mao  
J. Cao  
Y. Ge  
D. Ma  
G. Jiang

### Kilogram Synthesis of (S)-3-Aminopyran from L-Glutamic Acid



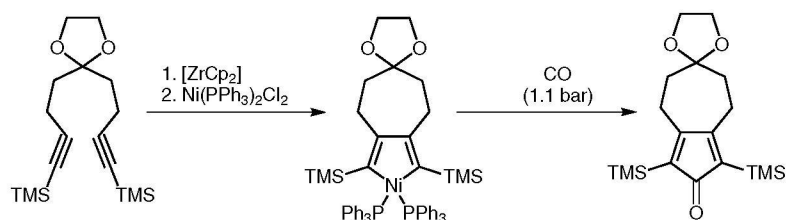
- 991 W. Liu\*  
L. Tan  
P. Zhou  
C. Chen  
Q. Zhang

### Approach to Trisubstituted 1H-Pyrroles from Alkynoates and Amines Mediated by *tert*-Butyl Perbenzoate



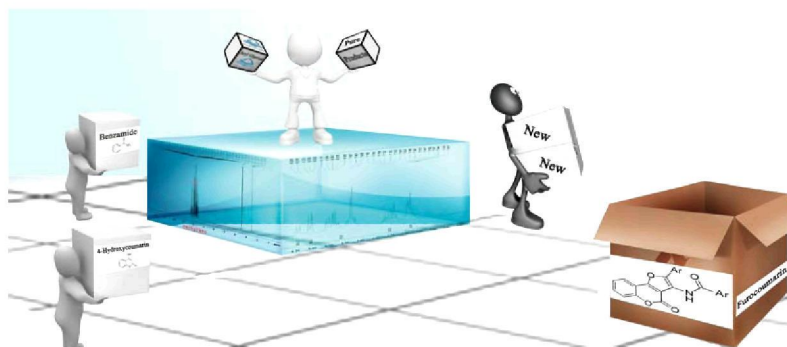
- 995 V. Raev  
P. G. Jones  
H. Hopf\*

### Zirconium-Induced Cyclizations of Long-Chain $\alpha,\omega$ -Diyne Derivatives – The Surprising One-Pot Formation of Dimeric Structures



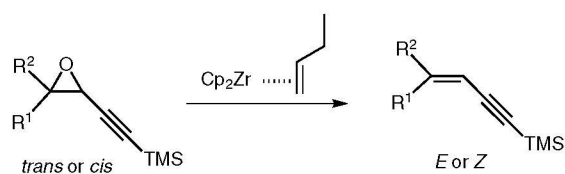
- 998 B. Karami\*  
S. Khodabakhshi  
K. Eskandari

### Regiospecific Synthesis of Novel Furo[4,5-c]coumarins in a One-Pot Reaction



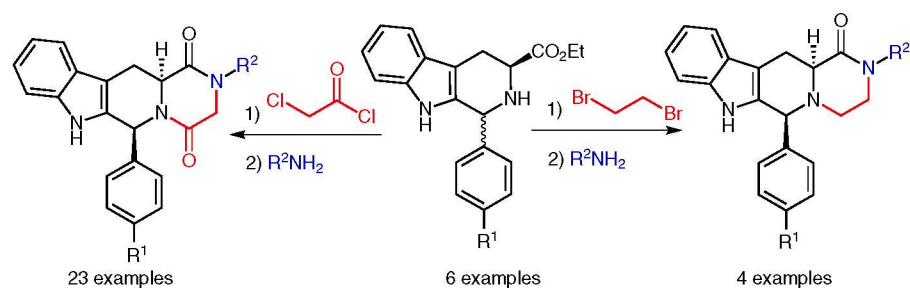
- 1001 A. Denichoux  
M. Cyklinsky  
F. Chemla\*  
F. Ferreira\*  
A. Pérez-Luna

**Conjugated Enyne Synthesis by Rearrangement of Acetylenic Epoxides Mediated by Low-Valence Organotitanium and Organozirconium Reagents**



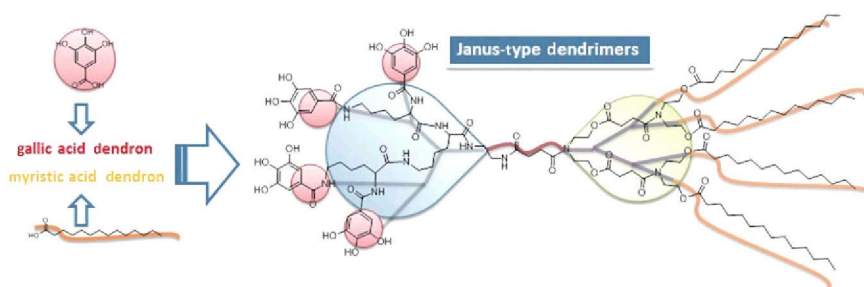
- 1006 T. Nguyen Van  
P. Claes  
N. De Kimpe\*

**Synthesis of Functionalized Diketopiperazines as Cyclotryprostatin and Tryprostatin Analogues**



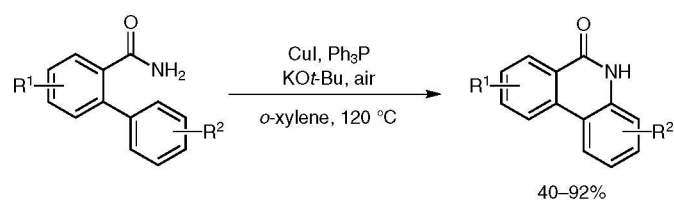
- 1011 J. Pan  
L. Ma  
Y. Zhao  
J. Zhao  
L. Ouyang  
L. Guo\*

**Design and Synthesis of Novel Janus Dendrimers as Lipophilized Antioxidants**



- 1016 Q. Gui  
Z. Yang  
X. Chen  
J. Liu  
Z. Tan\*  
R. Guo  
W. Yu\*

**Synthesis of Phenanthridin-6(5H)-ones via Copper-Catalyzed Cyclization of 2-Phenylbenzamides**







## Author Index

---

- Babu, S. 987  
 Baumgartner, T. 920  
 Bhanage, B. M. 981  
 Bharadwaj, S. K. 963  
 Bieniek, M. 903  
 Bräse, S. 951  
 Büyükgüngör, O. 977  
  
 Cao, J. 987  
 Chemla, F. 1001  
 Chen, C. 991  
 Chen, X. 1016  
 Christoffers, J. 959  
 Claes, P. 1006  
 Cmoch, P. 973  
 Crosta, N. 951  
 Cyklinsky, M. 1001  
  
 D'Auria, M. 943  
 De Kimpe, N. 1006  
 Denichoux, A. 1001  
  
 Eftekhari-Sis, B. 977  
 Eskandari, K. 998  
  
 Ferreira, F. 1001  
 Freitas, J. C. 1023  
 Fujita, K.-i. 947  
  
 Gadge, S. T. 981  
 Gaugele, D. 955  
 Ge, Y. 987  
 Gillingham, D. 893  
 Gopi Krishna Reddy, A. 967  
 Gradl, D. 951  
 Grell, K. 903  
 Guarnaccio, A. 943  
 Gui, Q. 1016  
 Guo, L. 1011  
 Guo, R. 1016  
  
 Hopf, H. 995  
  
 Jiang, G. 987  
 Jones, P. G. 995  
  
 Karami, B. 998  
 Khajeh, S. V. 977  
 Khodabakhshi, S. 998  
 Krishna, J. 967  
 Królikiewicz, M. 973  
 Kumar, A. S. 938  
  
 Liu, J. 1016  
 Liu, W. 991  
  
 Ma, D. 987  
  
 Ma, L. 1011  
 Maier, M. E. 955  
 Mao, Z. 987  
 Masters, K.-S. 951  
 Müller, S. 951  
 Muesmann, T. W. T. 959  
  
 Nguyen Van, T. 1006  
  
 Olszewski, T. K. 903  
 Ouyang, L. 1011  
  
 Pan, J. 1011  
 Pérez-Luna, A. 1001  
 Plunkett, K. N. 898  
  
 Racioppi, R. 943  
 Raev, V. 995  
 Ramani, T. 938  
 Romero-Nieto, C. 920  
  
 Santagata, A. 943  
 Satyanarayana, G. 967  
 Savage, S. 987  
 Sharma, K. 963  
 Skowerski, K. 903  
 Sreedhar, B. 938  
  
 Talukdar, D. 963  
 Tan, L. 991  
 Tan, Z. 1016  
 Teghil, R. 943  
 Thakur, A. J. 963  
 Tishinov, K. 893  
  
 Umeki, S. 947  
  
 Verma, G. K. 1021  
  
 Wickleder, M. S. 959  
 Wróbel, Z. 973  
  
 Yang, Z. 1016  
 Yasuda, H. 947  
 Yu, W. 1016  
  
 Zak, M. 987  
 Zhang, Q. 991  
 Zhao, J. 1011  
 Zhao, Y. 1011  
 Zhou, P. 991  
 Zitzer, C. 959