



Tetrahedron Vol. 65, No. 6, 2009

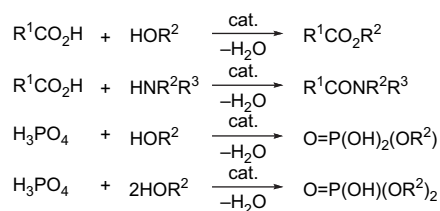
Contents

REPORT

Dehydrative condensation catalyses

pp 1085–1109

Kazuaki Ishihara*



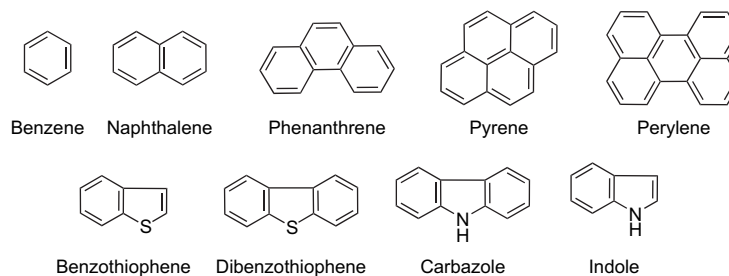
This report focuses on the catalytic dehydrative condensation reactions of carboxylic acids and phosphoric acids with alcohols and amines to give esters and amides *without the activation of acids with stoichiometric condensing agents*.

ARTICLES

The sulfonation of aromatic and heteroaromatic polycyclic compounds

pp 1111–1114

Alan R. Katritzky*, Myong Sang Kim, Dmytro Fedoseyenko, Khalid Widyen, Mike Siskin, Manuel Francisco

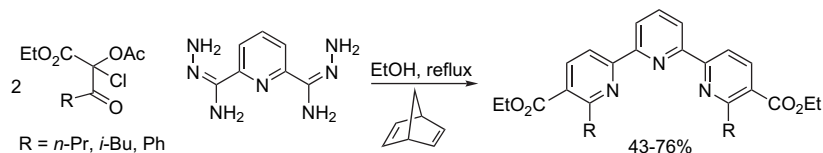


Relative reactivities of a series of polycyclic carbo- and heteroaromatic compounds to sulfonation by sulfur trioxide in nitrobenzene are measured and discussed.

A convenient synthesis of substituted 2,2':6',2''-terpyridines

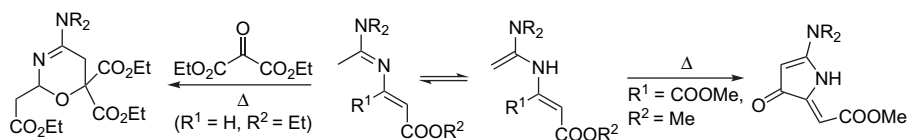
pp 1115–1118

Alexander Gehre, Stephen P. Stanforth*, Brian Tarbit

**Regioselective synthesis of pyrrolin-3-ones and 2,3,4,5-tetrahydro[1,3]-oxazines from *N*-vinylid amides**

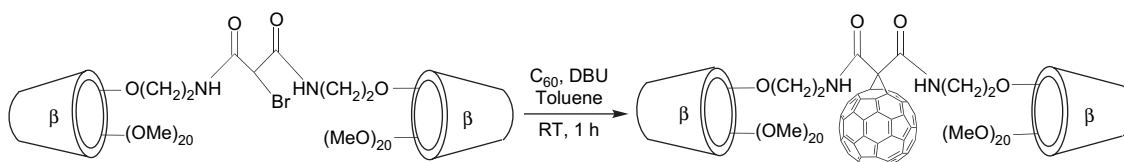
pp 1119–1124

Francisco Palacios*, Concepción Alonso, Gloria Rubiales, Maite Villegas

**Novel approach for synthesis of 2:1 permethylated β-cyclodextrin–C₆₀ conjugate**

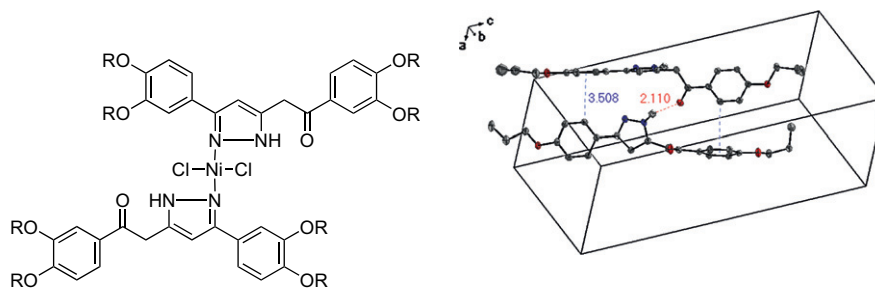
pp 1125–1129

Zhu Guan, Yali Wang, Yong Chen, Lihe Zhang, Yongmin Zhang*

**Columnar metallomesogens derived from unsymmetrical pyrazoles**

pp 1130–1139

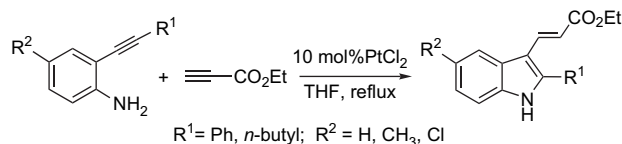
Shih-Yu Chou, Chun-Jung Chen, Shao-Ling Tsai, Hwo-Shuenn Sheu, Gene-Hsiang Lee, Chung K. Lai*



PtCl₂-catalyzed reactions of *o*-alkynylanilines with ethyl propiolate and dimethyl acetylenedicarboxylate

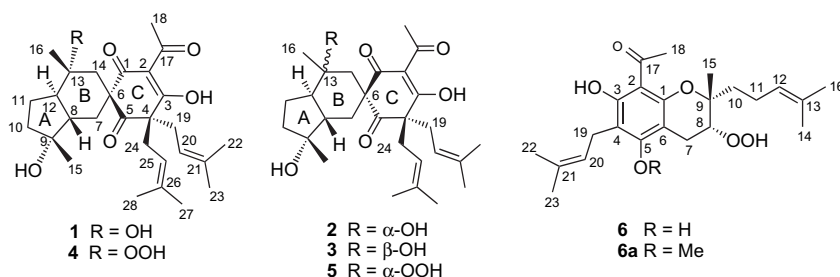
pp 1140–1146

Xun Li, Jun-Yan Wang, Wei Yu*, Long-Min Wu

**Harrisotones A–E, five novel prenylated polyketides with a rare spirocyclic skeleton from *Harrisonia perforata***

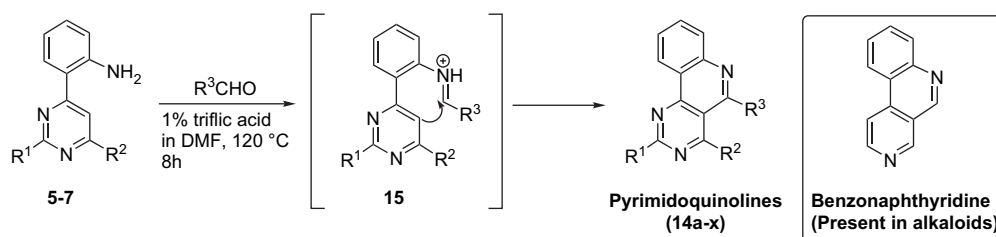
pp 1147–1152

Sheng Yin, Xin Chen, Zu-Shang Su, Sheng-Ping Yang, Cheng-Qi Fan, Jian Ding, Jian-Min Yue*

**Application of the Pictet–Spengler reaction to aryl amine-based substrates having pyrimidine as a π-nucleophile: synthesis of pyrimidoquinolines with structural analogy to benzonaphthyridines present in alkaloids**

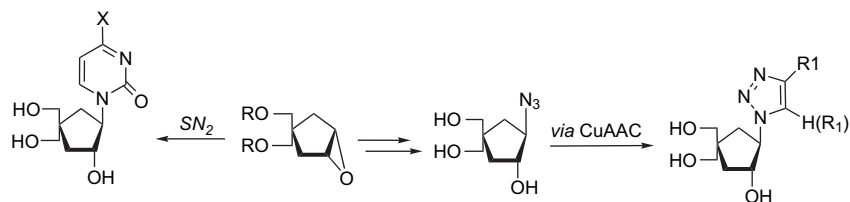
pp 1153–1161

Piyush K. Agarwal, Sudhir K. Sharma, Devesh Sawant, Bijoy Kundu*

**Synthesis of (±)-1,2,3-triazolo-3'-deoxy-4'-hydroxymethyl carbanucleosides via 'click' cycloaddition**

pp 1162–1170

Julie Broggi, Nicolas Joubert, Silvia Díez-González, Sabine Berteina-Raboin, Thomas Zevaco, Steven P. Nolan, Luigi A. Agrofoglio*

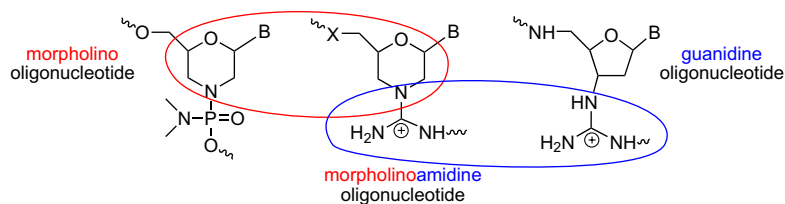


The synthesis of 1,2,3-triazolo-3'-deoxy-4'-hydroxymethyl carbanucleosides with different reaction conditions and diverse modulations on the heterocycle residues was developed. Heterocycle moieties were efficiently introduced on the pseudo-sugar either via nucleophilic substitution or via Huisgen cycloaddition between the corresponding azide and various terminal or internal alkynes.

Novel oligonucleotide analogues containing a morpholinoamidine unit

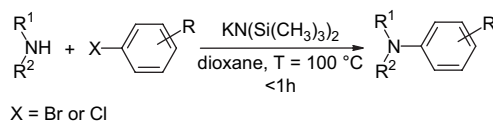
pp 1171–1179

Sonia Pérez-Rentero, Javier Alguacil, Jordi Robles*

**Transition metal-free amination of aryl halides—A simple and reliable method for the efficient and high-yielding synthesis of *N*-arylated amines**

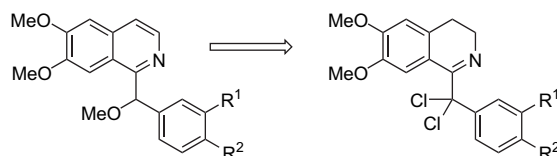
pp 1180–1187

Jeanne L. Bolliger, Christian M. Frech*

**New synthesis of 1-[(3,4-dimethoxyphenyl)methoxymethyl]-6,7-dimethoxyisoquinoline (setigerine), a naturally occurring alkaloid, and some derivatives of papaverine**

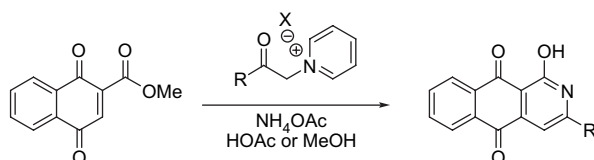
pp 1188–1192

Jan Jacobs, Nguyen van Tuyen, Peter Markusse, Christian V. Stevens, Leendert Maat, Norbert De Kimpe*

**New and highly efficient synthesis of 3-substituted 1-hydroxybenz[*g*]isoquinoline-5,10-diones**

pp 1193–1199

Jan Jacobs, Sven Claessens, Blaise Mavinga Mbala, Kris Huygen, Norbert De Kimpe*



pp 1200–1206

$$\begin{array}{c}
 \begin{array}{c} \text{H} \\ | \\ \text{Ph}-\text{C}-\text{CONHNH}_2 \\ | \\ \text{NHR}^1 \end{array} \xrightarrow{\text{R}^2\text{C}(\text{OC}_2\text{H}_5)_3} \begin{array}{c} \text{H} \\ | \\ \text{Ph}-\text{C}-\text{C}(\text{NHR}^1)=\text{N}-\text{N}=\text{C}(\text{R}^2) \\ | \\ \text{NHR}^1 \end{array} \longrightarrow \begin{array}{c} \text{H} \\ | \\ \text{Ph}-\text{C}-\text{C}(\text{N}^+\text{H}_3)=\text{N}-\text{N}=\text{C}(\text{R}^2) \\ | \\ \text{NHR}^1 \end{array} \\
 \begin{array}{l} \text{R}^1 = \text{Ac, BOC} \\ \text{R}^2 = \text{H, CH}_3, \text{C}_2\text{H}_5, \text{Ph} \end{array} \\
 \begin{array}{c} \text{H} \\ | \\ \text{Ph}-\text{C}-\text{CONHNH}_2 \\ | \\ \text{NH}_2^+\text{HCl} \end{array} \quad \begin{array}{c} \text{H} \\ | \\ \text{Ph}-\text{C}-\text{C}(\text{NHR}^1)=\text{N}-\text{N}=\text{C}(\text{Ph}) \\ | \\ \text{NH}_2^+\text{HCl} \end{array} \quad \begin{array}{c} \text{H} \\ | \\ \text{H}-\text{N}^+-\text{C}(\text{H})=\text{N}-\text{N}=\text{C}(\text{R}^2) \\ | \\ \text{CF}_3\text{SO}_3^- \end{array}
 \end{array}$$

Calendar

p l

(i)⁺ Supplementary data available via ScienceDirect



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®



ELSEVIER

ISSN 0040-4020