Recent Advances in the Synthetic Chemistry of Bicyclo[1.1.1]pentane

J. Kanazawa
M. Uchiyama
Japan Tobacco Inc., Japan
RIKEN, Japan
The University of Tokyo, Japan

Manganese-Catalyzed Direct Olefination via an Acceptorless Dehydrogenative Coupling of Methyl Heteroarenes with Primary Alcohols

M. K. Barman
S. Waiba
B. Maji
Indian Institute of Science Education and Research Kolkata, India
Recent Applications of α-Carbonyl Sulfoxonium Ylides in Rhodium- and Iridium-Catalyzed C–H Functionalizations

X. Wu
S. Sun
J.-T. Yu
J. Cheng*
Changzhou University, P. R. of China

Synthesis of Functional Carbo-benzenes with Functional Properties: The C₂ Tether Key

K. Cocq
C. Barthes
A. Rives
V. Maraval*
R. Chauvin*
CNRS, LCC (Laboratoire de Chimie de Coordination), France
Université de Toulouse, France

def versatile effects on stability, solubility, magnetic anisotropy, molecular conductance, columnar mesogenicity, one-photon and two-photon absorption, π-cooperative surface photosensitization

Structural Identification of Products from the Chloromethylation of Salicylaldehyde

E. Kadwa
H. B. Friedrich
M. D. Bala*
University of KwaZulu-Natal, South Africa

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Direct Asymmetric α-Hydroxylation of Cyclic α-Branched Ketones through Enol Catalysis

G. A. Shevchenko*
G. Pupo*
B. List*
Max-Planck-Institut für Kohlenforschung, Germany

Synthesis and Optoelectronic Properties of Iptycene–Naphthazarin Dyes

C. Dengiz
Y.-C. M. Wu
T. M. Swager*
Massachusetts Institute of Technology, USA

Synthesis of Conformationally Locked and C-Linked Analogues of Imidazole-Based Ketene Dithioacetal Fungicides

J. Gagnepain
S. Jeanmart
D. Bonvalot
O. Jacob
C. Lamberth*
Syngenta Crop Protection AG, Switzerland
One-Pot Approach to Pyrido-4-phenanthridinones by Palladium-Catalyzed Annulation of 4-Quinolones with 2-Bromobenzyl Bromides

T. Arasakumar
S. Shyamsivappan
S. Gopalan
A. Ata*
P. S. Mohan*
Bharathiar University, India
The University of Winnipeg, Canada

Enantioselective Synthesis of 1- and 4-Hydroxytetrahydrocarbazoles through Asymmetric Transfer Hydrogenation

Ö. Dilek
S. Patir
E. Ertürk*
TÜBİTAK Marmara Research Center, Turkey

Cesium Carbonate-Promoted P-Alkylation of Phosphinecarboxamides

X.-G. Chen
Q.-L. Wu
F. Hou
X.-C. Wang
Z.-J. Quan*
Northwest Normal University, P. R. of China
Gansu International Scientific and Technological Cooperation Base of Water-Retention Chemical Functional Materials, P. R. of China
Synthesis of the Deacetoxytubuvaline Fragment of Pretubulysin and its Lipophilic Analogues for Enhanced Permeability in Cancer Cell Lines

R. B. Reddy
P. Dudhe
V. Chelvam*
Indian Institute of Technology Indore, India

Regio- and Stereoselective Synthesis of Spirooxindoles via Mizoroki–Heck Coupling of Aryl Iodides

A. Adeyemi
A. Wetzel
J. Bergman
J. Brånalt
M. Larhed*
Uppsala University, Sweden

One-Pot Three-Component Synthesis of 2,4,5-Triaryl-1H-imidazoles in the Presence of a Molecular Sieve Supported Titanium Catalyst under Mild Basic Conditions

Á. Magyar
Z. Hell*
Budapest University of Technology and Economics, Hungary
Toluene and its Derivatives as Atom-Efficient Benzylating Agents for Secondary Amines

D. Schönbauer
F. Lukas
M. Schnürch
TU Wien, Austria

C–Te Cross-Coupling of Diaryl Ditellurides with Arylboronic Acids by Using Copper(I) Thiophene-2-carboxylate under Mild Conditions

S. Koguchi
Y. Shibuya
Y. Igarashi
H. Takemura
Tokai University, Japan

Synthesis of Naphthoic Acids as Potential Anticancer Agents

L. M. Deck
J. A. Greenberg
L. J. Whalen
D. L. Vander Jagt
R. E. Royer
University of New Mexico, USA
Copper-Catalyzed C(sp³)–H Azidation of 1,3-Dihydro-2H-indol-2-ones Under Mild Conditions

W.-H. Bao
L.-H. Gao
W.-W. Ying
W.-T. Chen
G.-P. Chen
W.-T. Wei*
Y.-Y. Liu*
Q. Li
Ningbo University, P. R. of China
Huaihua University, P. R. of China

Copper(II) acetate (20 mol%) + TMSN₃ → C(sp³)–H azidation

R¹ = H, OMe, Me, Cl, Br
R² = H, Me, Ph, 4-Tol
R³ = H, Me, Bn, Ph, Boc

DDQ-Mediated Cross-Dehydrogenative-Coupling Reaction of Secondary Amines with Dialkyl Phosphonates

M.-X. Cheng*
J.-W. Lei
C.-X. Xie
Henan University of Chinese Medicine, P. R. of China

DDQ + dialkyl phosphonates → C–P bond formation

25 examples
up to 92% yield

Metal free
Mild reaction condition
C–P bond formation
A gram-scale synthesis