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temperature. The catalyst was reused up to seven runs without appreciable loss of catalytic activity.

Synthesis of water-soluble subphthalocyanines

Łukasz Łapok, Christian G. Claessens, D. Wöhrle^{*}, T. Torres^{*}



Synthesis of 1-deoxy-L-gulonojirimycin and 1-deoxy-L-talonojirimycin

Annalisa Guaragna, Daniele D'Alonzo^{*}, Concetta Paolella, Giovanni Palumbo



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Total synthesis of verbalactone: an efficient, carbohydrate-based approach

Ganesh B. Salunke, I. Shivakumar^{*}, Mukund K. Gurjar^{*}

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Facile reaction of thiols and amines with alkyl 4-hydroxy-2-alkynoates in water under neutral conditions and ultrasound irradiation

Antonio Arcadi^{*}, Maria Alfonsi, Fabio Marinelli



A facile and regioselective synthesis of 1,4-disubstituted 1,2,3-triazoles using click chemistry Dalip Kumar^{*}, V.Buchi Reddy, Rajender S. Varma



Improved synthesis of V-PYRRO/NO, a liver-selective nitric oxide prodrug, and analogues Sam Y. Hong, Joseph E. Saavedra, Larry K. Keefer, Harinath Chakrapani



An improved synthesis of V-PYRRO/NO is reported and applied to the preparation of additional O²-vinylated diazeniumdiolates.

Mild and practical stereoselective synthesis of (Z)- and (E)-allyl bromides from Baylis-Hillman adducts using Appel agents (PPh₃/CBr₄): a facile synthesis of semiplenamides C and E Biswanath Das^{*}, Kongara Damodar, Nisith Bhunia, Boddu Shashikanth



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Platinum-catalyzed consecutive C-N bond formation-[1,3] shift of carbamoyl and ester groups Itaru Nakamura^{*}, Yusuke Sato, Sayaka Konta, Masahiro Terada



Efficient synthesis of phosphorus-containing dendrimers capped with isosteric functions of amino-bismethylene pp 2078-2082 phosphonic acids

Olivier Rolland, Cédric-Olivier Turrin^{*}, Gérard Bacquet, Remy Poupot, Mary Poupot, Anne-Marie Caminade^{*}, Jean-Pierre Majoral

The synthesis and characterization of phosphorus-containing dendrimers capped with isosteric N-bismethylene carboxylic and sulfonic acids derived from tyramine is described, allowing the preparation of compounds that are strict analogs of the corresponding N-bismethylene phosphonic acid functions derived from tyramine.

Influencing the regioselectivity of lipase-catalyzed hydrolysis with [bmim]PF₆ Cédric Gervaise, Richard Daniellou^{*}, Caroline Nugier-Chauvin^{*}, Vincent Ferrières



An easy preparation of ethyl 2,3,4-tri-O-acetyl-1-thio-β-D-glucopyranoside or ethyl 2,3,6-tri-O-acetyl-1-thio-β-D-glucopyranoside via a selective Candica cylindracea lipasecatalyzed mono-deprotection of a peracetylated precursor is described. The influence of the ratio of [bmim]PF₆/buffer toward the regioselectivity and the acyl migration is discussed.

An expeditious protocol for sesquiterpene-cored functionalized arenes from S-(-)-citronellal Atul Goel^{*}, Deepti Verma

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One-pot and catalyst-free synthesis of thiosemicarbazones via multicomponent coupling reactions Silvio Cunha^{*}, Tiago Lima da Silva

 $\begin{array}{c}
 S \\
 R^{1} \\
 R^{2} \\
 H^{2} \\
 H \\
 H
\end{array}$ $\begin{array}{c}
 S \\
 R^{1} \\
 R^{1} \\
 R^{2} \\
 H \\
 H
\end{array}$ $\begin{array}{c}
 S \\
 R^{2} \\
 R^{2} \\
 H \\
 H
\end{array}$

Novel and efficient synthesis of 4-sulfonyl-2-pyridones

Martha L. Minich^{*}, Isa D. Watson, Kevin J. Filipski, Jeffrey A. Pfefferkorn



Palladium-catalyzed carbonylative cyclization of 2-bromobenzaldehyde with primary amines leading to isoindolin-1-ones

Chan Sik Cho^{*}, Wen Xiu Ren



An improved synthesis of a fluorescent gabapentin–choline conjugate for single molecule detection Haitao Wu, Gurpreet Kaur, Gary L. Griffiths ^{*}



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Palladium-catalyzed direct arylation of 4-hydroxycoumarins with arylboronic acids via C-OH bond activation Yong Luo, Jie Wu

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+ R²-B(OH)₂ + R²-B(OH)₂ + THF-H₂O, Na₂CO₃ R^{1_||}

Syntheses of shuttlecock- and bowl-equipped phenylazopyridines and photomodulation of their coordination pp 2106-2108 ability to Zn-porphyrin

Kazuya Suwa, Joe Otsuki^{*}, Kei Goto

A rigid GABA analog from a [4+3]-cycloaddition

Paitoon Rashatasakhon, Michael Harmata



Molecular sieve 4 Å generates nitrile oxides from hydroximoyl chlorides. Development of catalyzed enantioselective nitrile oxide cycloadditions to monosubstituted alkenes

Fumiyasu Ono, Yasuaki Ohta, Masayuki Hasegawa, Shuji Kanemasa



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Synthesis of the core ring system of awajanomycin from N-Boc-3-methoxycarbonyl-2-pyridinone

Kou Hiroya^{*}, Kei Kawamoto, Kiyofumi Inamoto, Takao Sakamoto, Takayuki Doi



Synthesis of the core ring system of awajanomycin is described.

Radical additions to allyl bromides. A synthetically useful, 'Tin-Free' method for carbon-carbon bond formation pp 2119-2120 John A. Struss^{*}, Mitra Sadeghipour, James M. Tanko



The scope and limitations of a novel free radical chain process involving the addition of benzyl radicals to substituted allyl bromides were examined and extended to explore the effect of α -substitution on the allyl bromide (R'), and the use of pyrrolidine amides and oxazolidinone as activating substituents (Z) as the first steps toward the development of a stereoselective, radical-based C-C bond-forming reaction which is environmentally benign.

Synthesis of haginin E, equol, daidzein, and formononetin from resorcinol via an isoflavene intermediate

Sie-Rong Li, Po-Yuan Chen, Liang-Yeu Chen, Yi-Fang Lo, Ian-Lih Tsai, Eng-Chi Wang



An aqueous medium synthesis and tautomerism study of 3(5)-amino-1,2,4-triazoles Anton V. Dolzhenko^{*}, Giorgia Pastorin, Anna V. Dolzhenko, Wai Keung Chui



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Divergent synthesis of isoindolo[2,1-*a*]**indole and indolo**[1,2-*a*]**indole through copper-catalysed C- and N-arylations** pp 2129–2131 Nekane Barbero, Raul SanMartin^{*}, Esther Domínguez^{*}

The key steps of the strategy are based on copper-catalysed C_{aryl} -C (the first reported copper-mediated intramolecular C-H functionalisation of an indole) and C_{aryl} -N bond formation reactions, respectively.

Trichilin B, a novel limonoid with highly rearranged ring system from *Trichilia connaroides*

Zhao-Liang Geng, Xin Fang, Ying-Tong Di, Qiang Zhang, Ying Zeng, Yue-Mao Shen, Xiao-Jiang Hao

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Push-pull alkenes by reacting *N*,*N*-dimethyl cyclic ketene *N*,*N*-acetals with isocyanates: synthesis, structures, and reactivities

Guozhong Ye, William P. Henry, Chunlong Chen, Aihua Zhou, Charles U. Pittman Jr.

Chemically-enabled synthesis of 1,2,3,4-tetrahydroisoquinolin-1-ones

Paul S. Humphries^{*}, Gayatri Balan, Bruce M. Bechle, Edward L. Conn, Kenneth J. Dirico, Yu Hui, Robert M. Oliver, James A. Southers, Xiaojing Yang

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Carboalumination/Ni-catalyzed couplings. A short synthesis of verticipyrone

Bruce H. Lipshutz^{*}, Benjamin Amorelli

Verticipyrone has been synthesized in six overall steps from commercially available ethyl 2-methylacetoacetate. This represents the first successful application of a modified Negishi carboalumination/nickel-catalyzed cross-coupling reaction to a chloromethylated γ -pyrone.

Synthesis and self-assembly of a triphenylene-containing amphiphilic conjugated macrocycle

Degang Wang, Jeffrey Fu H
su, Mahuya Bagui, Vladimir Dusevich, Yong Wang, Yi Liu, Andrew J. Holder, Zhong
hua Peng *

Enzymatic formation of unnatural novel polyketide scaffolds by plant-specific type III polyketide synthase She-Po Shi, Hiroyuki Morita, Kiyofumi Wanibuchi, Hiroshi Noguchi, Ikuro Abe^{*}

Six novel unnatural polyketides have been produced by plant-specific type III polyketide synthase.

Direct synthesis of 1,6-anhydro sugars from unprotected glycopyranoses by using 2-chloro-1,3-dimethylimidazolinium chloride

Tomonari Tanaka, Wei Chun Huang, Masato Noguchi, Atsushi Kobayashi, Shin-ichiro Shoda *

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 ${}_{igodol}^+$ Supplementary data available via ScienceDirect

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