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Publisher's Announcement—New Chairman of the Executive Board of Editors for Tetrahedron Publications

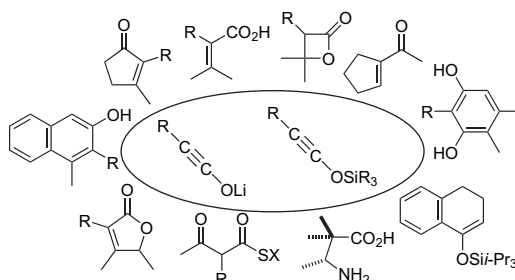
p 9

REPORT

Synthetic uses of ynolates

Mitsuru Shindo

pp 10–36



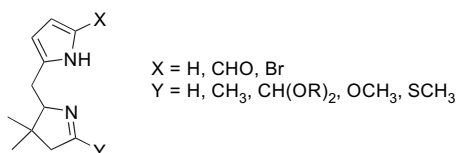
Generation and synthetic uses of ynolates including ynolate anions and silyl ynol ethers are reviewed.

ARTICLES

Synthesis of hydrodipyrins tailored for reactivity at the 1- and 9-positions

Han-Je Kim, Dilek Kiper Dogutan, Marcin Ptaszek and Jonathan S. Lindsey*

pp 37–55

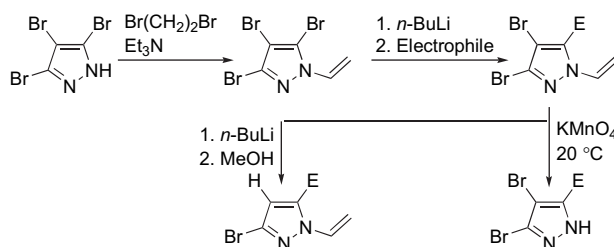


Thirty-three hydrodipyrins containing diverse functional groups at the α -positions have been synthesized for use in routes to hdroporphyrins.

The *N*-vinyl group as a protection group of the preparation of 3(5)-substituted pyrazoles via bromine–lithium exchange

Brian Iddon, Janne Ejrnæs Tønder, Masood Hosseini and Mikael Begtrup*

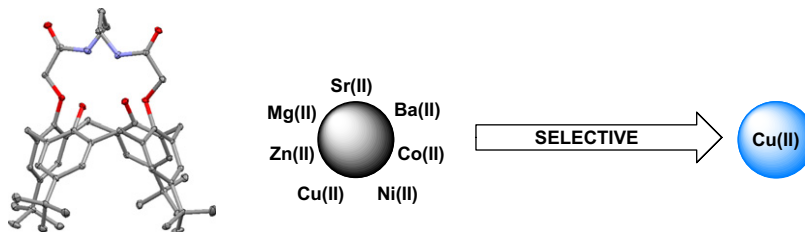
pp 56–61



Calix[4]azacrowns: self-assembly and effect of chain length and *O*-alkylation on their metal ion-binding properties

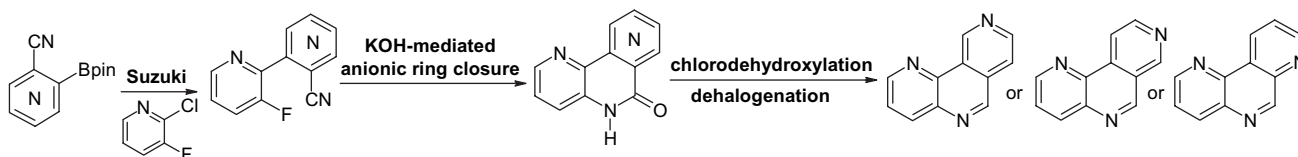
pp 62–70

Issam Oueslati,* Pierre Thuéry, Oleksandr Shkurenko, Kinga Suwinska, Jack M. Harrowfield, Rym Abidi and Jacques Vicens*


The synthesis of three new heterocycles: the pyrido[4,3 or 3,4 or 2,3-*c*]-1,5-naphthyridines

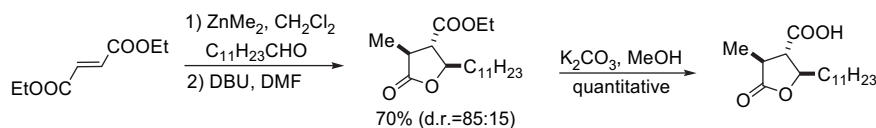
pp 71–76

Thomas Cailly, Frédéric Fabis, Rémi Legay, Hassan Oulyadi and Sylvain Rault*


 α,β -Unsaturated diesters: radical acceptors in dialkylzinc-mediated tandem radical addition/aldol condensation. A straightforward synthesis of *rac*-nephrosteranic acid

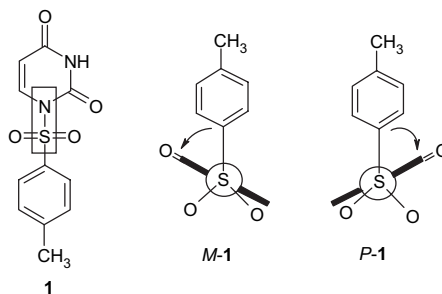
pp 77–85

Samantha Bazin, Laurence Feray, Nicolas Vanthuyne, Didier Siri and Michèle P. Bertrand*


Conformational chirality and chiral crystallization of *N*-sulfonylpyrimidine derivatives

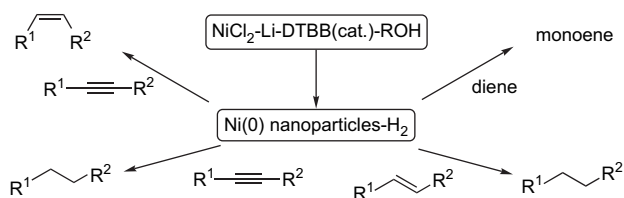
pp 86–92

Aleksandar Višnjevac, Mladen Žinić, Marija Luić, Dinko Žiher, Tanja Kajfež Novak and Biserka Žinić*



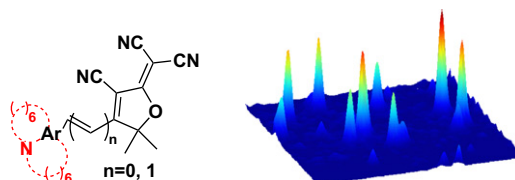
Highly selective hydrogenation of multiple carbon–carbon bonds promoted by nickel(0) nanoparticles pp 93–102

Francisco Alonso,* Iñaki Osante and Miguel Yus*



The influence of tetrahydroquinoline rings in dicyanomethylenedihydrofuran (DCDHF) single-molecule fluorophores pp 103–114

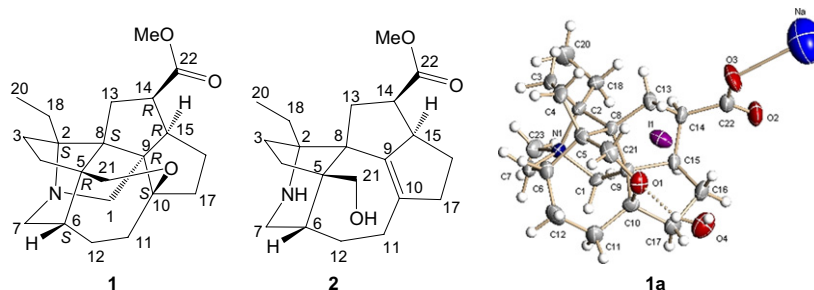
Hui Wang, Zhikuan Lu, Samuel J. Lord, Katherine A. Willets, Jeffrey A. Bertke, Scott D. Bunge, W. E. Moerner and Robert J. Twieg*



The general structure of a DCDHF fluorophore and epifluorescence image of single copies in a PMMA film.

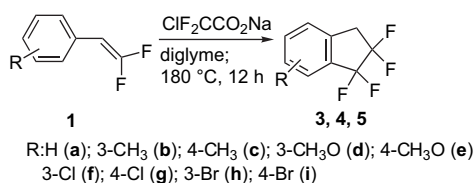
Novel alkaloids, paxdaphnines A and B with unprecedented skeletons from the seeds of *Daphniphyllum paxianum* pp 115–119

Cheng-Qi Fan, Sheng Yin, Jun-Juan Xue and Jian-Min Yue*



One-pot process to prepare 1,1,2,2-tetrafluoroindane from substituted 2,2-difluorostyrene and sodium chlorodifluoroacetate pp 120–125

Chuan-Chen Lee, Shaw-Tao Lin* and Shun-Ying Ke

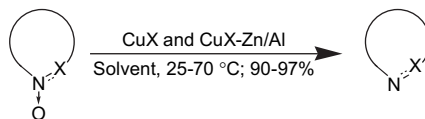


1,1,2,2-Tetrafluoroindanes were prepared by the reaction of difluorostyrene and chlorodifluoroacetate in diglyme at 180 °C for 12 h in good yields.

Cu(I)-mediated deoxygenation of *N*-oxides to amines

pp 126–130

Sunil Kumar Singh,* M. Srinivasa Reddy, Mangesh Mangle and K. Ravi Ganesh

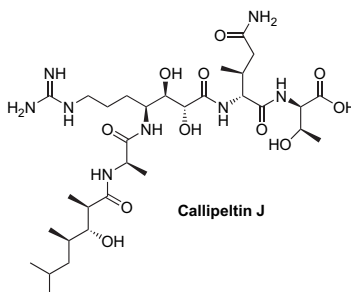


Mild and efficient deoxygenation of variety of *N*-oxides using CuX (Cl, I), CuX–Zn and CuX–Al under an ordinary laboratory condition is described.

Isolation and structural elucidation of callipeltins J–M: antifungal peptides from the marine sponge *Latrunculia* sp.

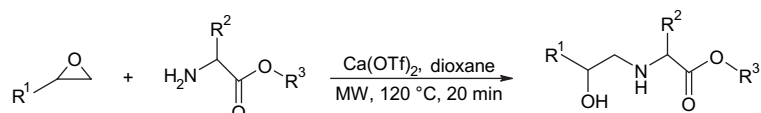
pp 131–140

Maria Valeria D'Auria, Valentina Sepe, Rosa D'Orsi, Filomena Bellotta, Cécile Debitus and Angela Zampella*

**Microwave-assisted synthesis of hydroxyethylamine dipeptide isosteres**

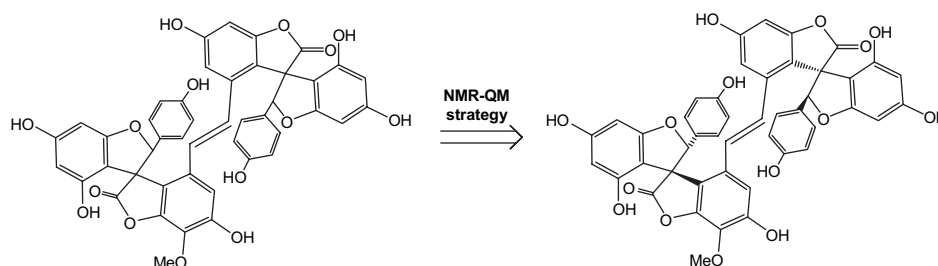
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Matej Sova, Andrej Babič, Slavko Pečar* and Stanislav Gobec*

**Gloriosaols A and B, two novel phenolics from *Yucca gloriosa*: structural characterization and configurational assignment by a combined NMR-quantum mechanical strategy**

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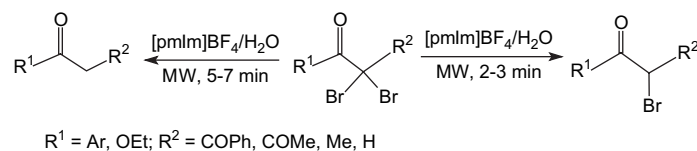
Carla Bassarello, Giuseppe Bifulco,* Paola Montoro, Alexandre Skhirtladze, Ether Kemertelidze, Cosimo Pizza and Sonia Piacente*



Ionic liquid promoted selective debromination of α -bromoketones under microwave irradiation

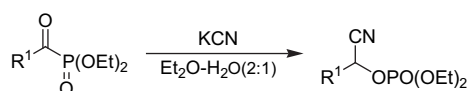
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Brindaban C. Ranu,* Kalicharan Chattopadhyay and Ranjan Jana

**Protonation of acyl anion equivalents generated from acylphosphonates: nonhydride access to the aldehyde oxidation state from the carboxylic acid oxidation state**

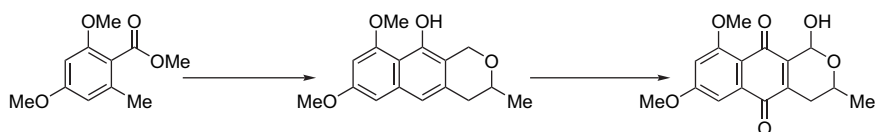
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Ayhan S. Demir,* Ömer Reis, Ilker Esiringü, Barbaros Reis and Sehriban Baris

**Simple and efficient synthesis of thysanone methyl ether**

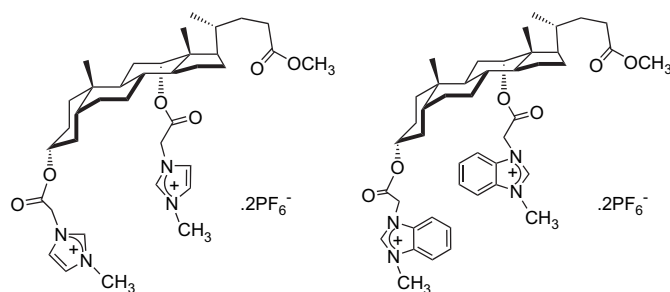
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Vivek J. Bulbule,* Priti S. Koranne, Vishnu H. Deshpande and Hanumant B. Borate

**Anion recognition by bisimidazolium and bisbenzimidazolium cholapods**

pp 171–176

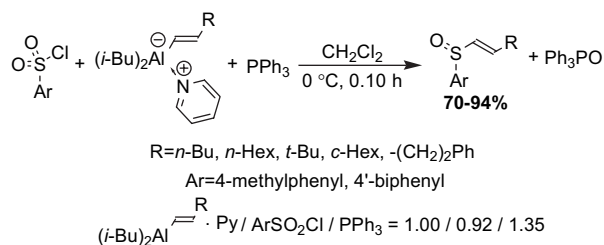
Mamta Chahar, Shailesh Upreti and Pramod S. Pandey*



Alkenyl alane–pyridine complexes in a new synthesis of aryl alk-1-enyl sulfoxides

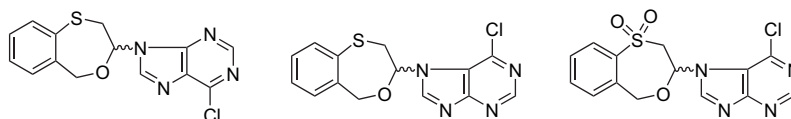
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G. Signore, M. Calderisi, C. Malanga and R. Menicagli*

**6'-Chloro-7- or 9-(2,3-dihydro-5H-4,1-benzoxathiepin-3-yl)-7H- or 9H-purines and their corresponding sulfones as a new family of cytotoxic drugs**

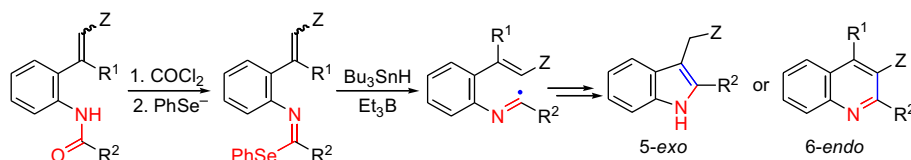
pp 183–190

María C. Núñez, Fernando Rodríguez-Serrano, Juan A. Marchal, Octavio Caba, Antonia Aránega, Miguel A. Gallo, Antonio Espinosa and Joaquín M. Campos*

**Amides as precursors of imidoyl radicals in cyclisation reactions**

pp 191–203

W. Russell Bowman,* Anthony J. Fletcher, Jan M. Pedersen, Peter J. Lovell, Mark R. J. Elsegood, Elena Hernández López, Vickie McKee and Graeme B. S. Potts

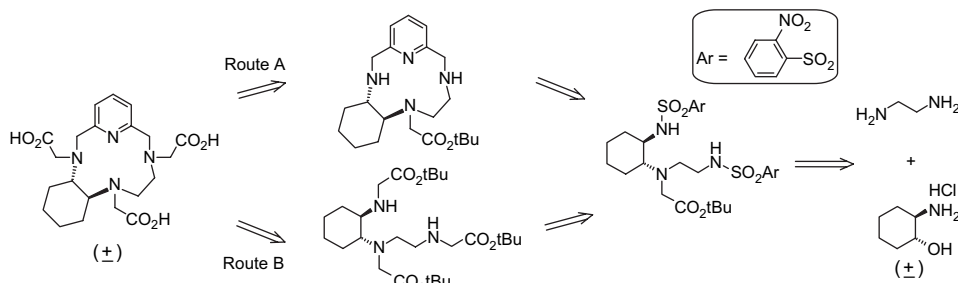


Imidoyl radicals have been generated from secondary amides via imidoyl selenides and used in radical cyclisations onto alkenes and heteroarenes.

**Synthesis of a tricyclic tetraazatriacetic ligand for gadolinium(III) as potential contrast agent for MRI**

pp 204–214

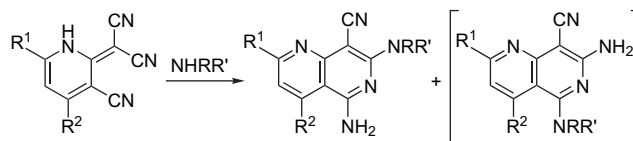
Fabienne Dioury, Sophie Sambou, Emmanuelle Guéné, Monique Sabatou, Clotilde Ferroud,* Alain Guy and Marc Port



Cyclization of 2-dicyanomethylene-1,2-dihydropyridine-3-carbonitriles with amines: a mechanistic rationalization

pp 215–223

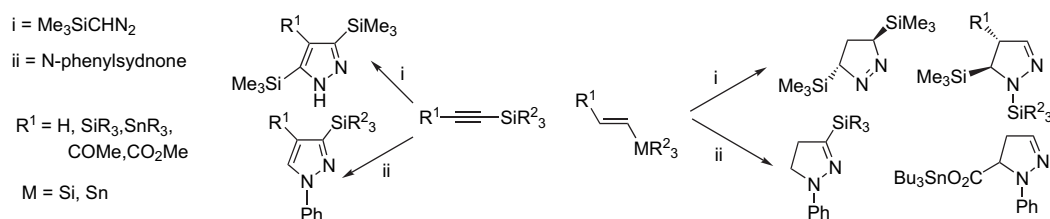
Francisco Carrión, Núria Mont, Xavier Batllori, José I. Borrell and Jordi Teixidó*



1,3-Dipolar cycloadditions of silicon and tin alkynes and alkenes. Regiospecific synthesis of silyl and stannylpyrazoles and pyrazolines

pp 224–231

Ana M. González-Nogal,* Mariola Calle, Purificación Cuadrado and Raquel Valero

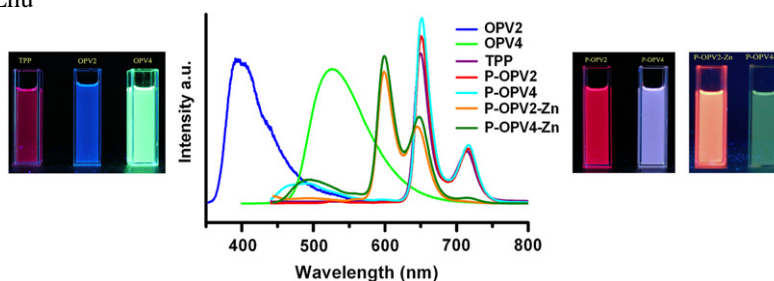


Synthesis of oligo(*p*-phenylene vinylene)-porphyrin-oligo(*p*-phenylene vinylene) triads as antenna molecules for energy transfer

pp 232–240

Tonggang Jiu, Yongjun Li, Haiyang Gan, Yuliang Li,* Huibiao Liu, Shu Wang, Weidong Zhou, Chunru Wang, Xiaofang Li, Xiaofeng Liu and Daoben Zhu*

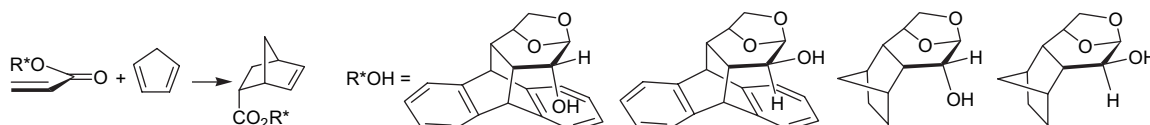
The oligo(*p*-phenylene vinylene)-porphyrin-oligo(*p*-phenylene vinylene) (P-OPV n , $n=2, 4$) and the complex with Zn²⁺ based on P-OPV n were synthesized. The detailed studies of photophysical properties of the triads indicate that OPV group can act as an antenna unit for effective intramolecular energy transfer.



Exploring structural effects of levoglucosenone derived chiral auxiliaries in asymmetric Diels–Alder cycloadditions

pp 241–251

Ariel M. Sarotti, Rolando A. Spanevello, Carine Duhayon, Jean-Pierre Tuchagues and Alejandra G. Suárez*



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*Corresponding author

 *Supplementary data available via ScienceDirect

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