

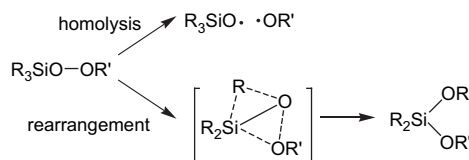
Contents

REPORT

Organosilicon peroxides: radicals and rearrangements

Alwyn G. Davies

pp 10385–10405



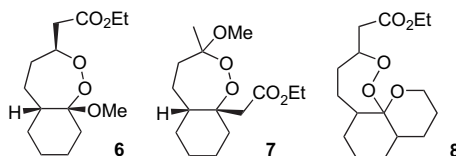
The peroxide bond is weak, and the most characteristic reactions of organic peroxides involve O–O homolysis to give two oxygen-centred radicals. In organosilicon peroxides, the competing factor of the strength of the Si–O bond puts simple homolysis in competition with rearrangements forming new Si–O bonds, by mechanisms which have both homolytic and heterolytic characteristics. The review analyses the current picture of the preparation, structures, and reactions of these peroxides.

ARTICLES

Simplified analogues of qinghaosu (artemisinin)

Qi Zhang and Yikang Wu*

pp 10407–10414

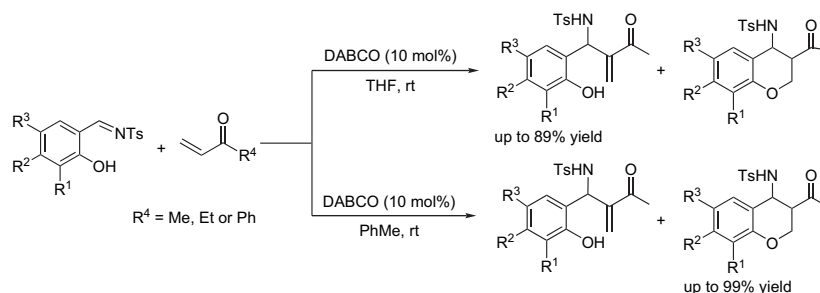


Aza-Baylis–Hillman reaction of salicyl *N*-tosylimines with methyl vinyl ketone, ethyl vinyl ketone or phenyl vinyl ketone

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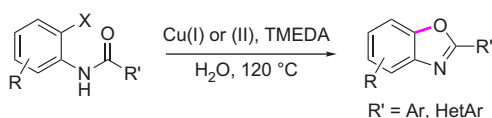
Ming-Juan Qi and Min Shi*

Reactions of salicyl *N*-tosylimines with methyl vinyl ketone, ethyl vinyl ketone or phenyl vinyl ketone proceeded smoothly under mild conditions to give the corresponding chromanes or aza-Baylis–Hillman adducts in moderate to excellent yields.



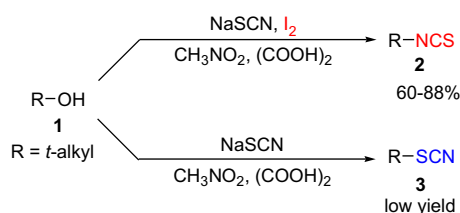
Copper-catalysed intramolecular O-arylation of aryl chlorides and bromides: a straightforward approach to benzo[*d*]oxazoles in water pp 10425–10432

Nekane Barbero, Mónica Carril, Raul SanMartin* and Esther Domínguez*



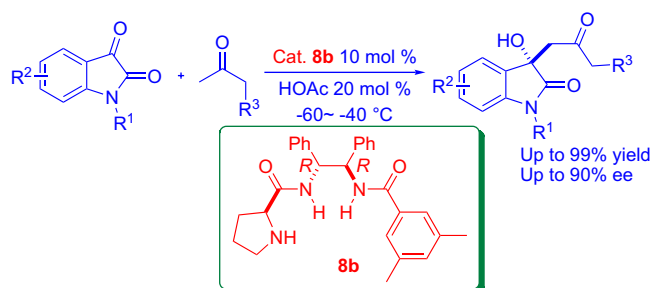
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Hideyoshi Miyake,* Yuichi Nakao and Mitsuru Sasaki



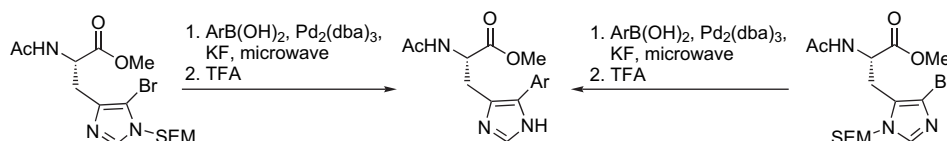
Organocatalytic asymmetric aldol reaction of ketones with isatins: straightforward stereoselective synthesis of 3-alkyl-3-hydroxyindolin-2-ones pp 10437–10444

Jia-Rong Chen, Xiao-Peng Liu, Xiao-Yu Zhu, Liang Li, Yong-Feng Qiao, Jian-Ming Zhang and Wen-Jing Xiao*



Synthesis of 5-arylhistidines via a Suzuki–Miyaura cross-coupling pp 10445–10453

Vanessa Cerezo, Ana Afonso, Marta Planas and Lidia Felíu*

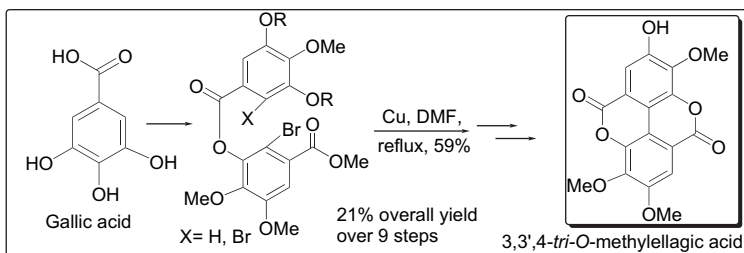


Total synthesis of 3,3',4-tri-*O*-methyllellagic acid from gallic acid

pp 10454–10465

Ashrafal Alam and Sadao Tsuboi*

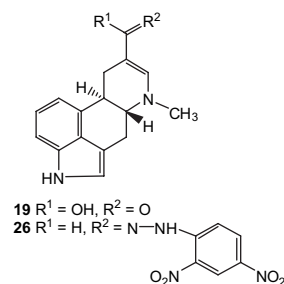
Total synthesis of 3,3',4-tri-*O*-methyllellagic acid has been achieved from gallic acid. Construction of crucial unsymmetric Ar–Ar bond was tried in various ways such as Ullmann cross-coupling, Suzuki cross-coupling, intramolecular Heck coupling, etc. But all the attempts were unsuccessful and finally it has been achieved by the intramolecular Ullmann coupling.

**Studies on oxidation of ergot alkaloids: oxidation and desaturation of dihydrolysergol— stereochemical requirements**

pp 10466–10478

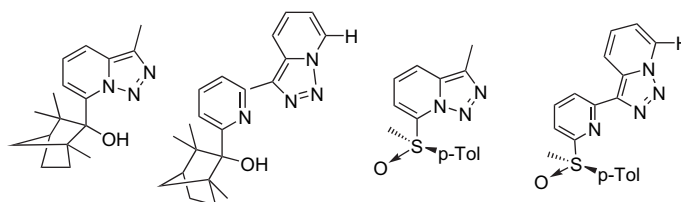
Radek Gažák, Vladimír Křen,* Petr Sedmera, Daniele Passarella, Michaela Novotná and Bruno Danieli

A new method for the oxidation of ergoline alcohols to aldehydes was found (TFFA–DMSO) and structural features of ergolines required for successful C7–C8 double bond introduction via Polonovski–Potier reaction were established.

**Triazolopyridines. Part 25: Synthesis of new chiral ligands from [1,2,3]triazolo[1,5-*a*]pyridines**

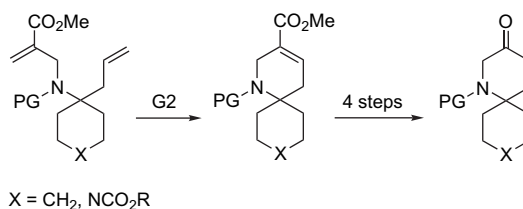
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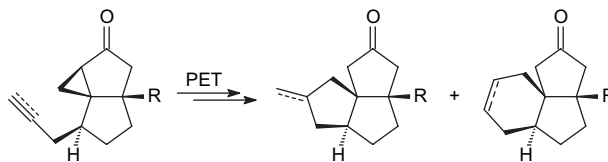
Evgeny Prusov and Martin E. Maier*



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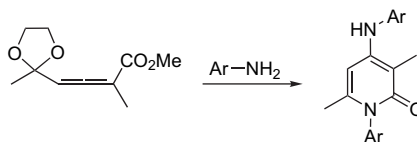
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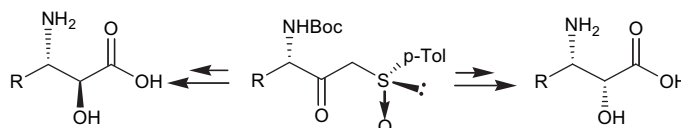

From dicarbonyllallene to 1-aryl-3,6-dimethyl-4-aminoaryl-2-pyridones: a one-pot versatile and uncatalyzed synthesis

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Thomas Boisse, Benoît Rigo,* Régis Millet and Jean-Pierre Hénichart

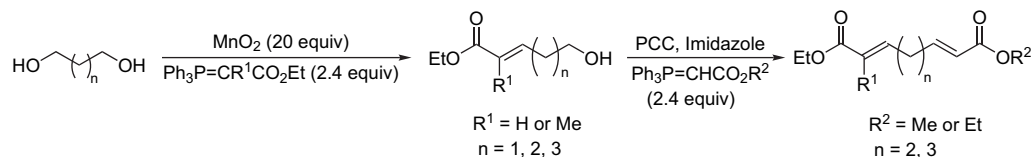

Enantioselective synthesis of α -hydroxy- β -amino acids from α -amino acids mediated by sulfoxides

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David J. Phillips, Kathryn S. Pillinger, Wei Li, Angela E. Taylor and Andrew E. Graham*

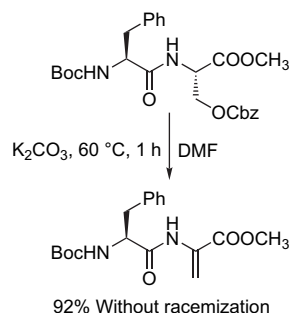


An efficient synthesis of dehydroamino acids and dehydropeptides from *O*-Cbz and *O*-Eoc derivatives of serine and threonine

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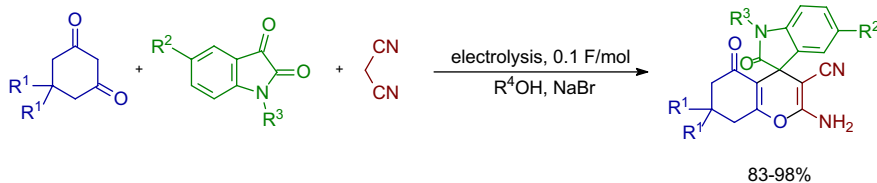
Ramapanicker Ramesh, Kavita De and Srinivasan Chandrasekaran*

A very mild and efficient procedure for the synthesis of dehydroamino acids and dehydropeptides through an *anti*-selective E₂ elimination of *O*-Cbz and *O*-Eoc derivatives of serine and threonine using K₂CO₃ in DMF is reported.

**Electrocatalytic multicomponent transformation of cyclic 1,3-diketones, isatins, and malononitrile: facile and convenient way to functionalized spirocyclic (5,6,7,8-tetrahydro-4*H*-chromene)-4,3'-oxindole system**

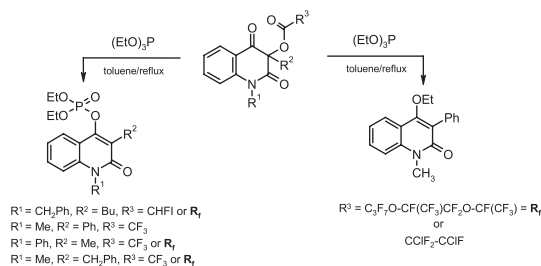
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Karel Pomeisl,* Jaroslav Kvíčala, Oldřich Paleta, Antonín Klásek, Stanislav Kafka, Vladislav Kubelka, Jaroslav Havlíček and Jan Čejka



*Corresponding author

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