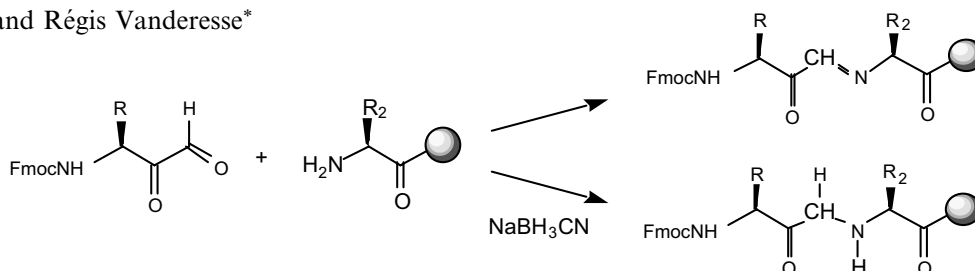


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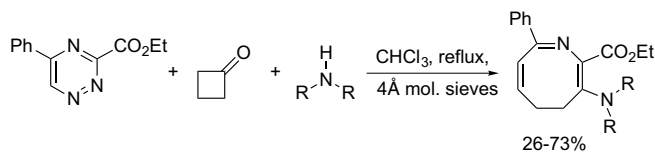
Elise Bernard and Régis Vanderesse\*



The reaction between the free amino terminus of a solid-supported peptide and a glyoxal leads to two families of pseudopeptides, the ketomethylenimino and the ketomethylenamino peptides.

**Cascade reactions of 1,2,4-triazines: direct thermochemical access to functionalized 4,5-dihydroazocines** pp 8607–8610

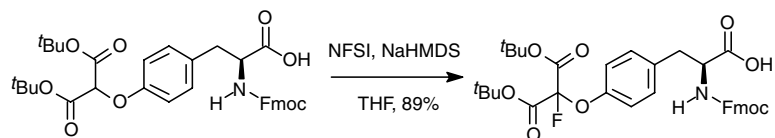
Steven A. Raw\* and Richard J. K. Taylor\*



A rapid, facile approach to functionalized 4,5-dihydroazocines has been developed, exploiting a one-pot reaction cascade from easily-prepared 3-(ethoxycarbonyl)-5-phenyl-1,2,4-triazine, cyclobutanone and secondary amines.

**A one-step synthesis of *N*<sup>α</sup>-Fmoc-4-*O*-[*O*',*O*'-di-*tert*-butyl-2-(2-fluoromalonyl)]-L-tyrosine from commercially available starting material** pp 8611–8613

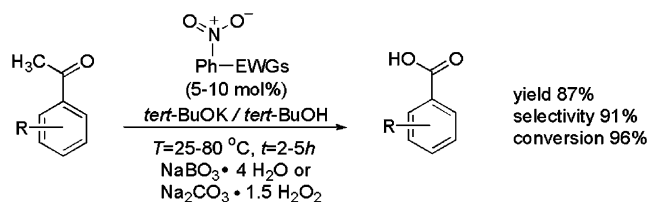
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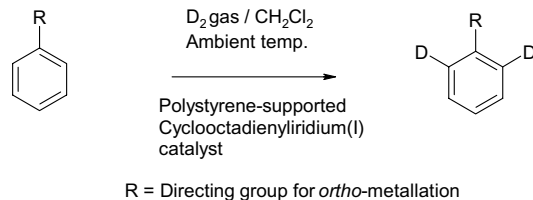
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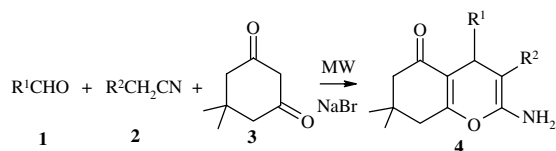
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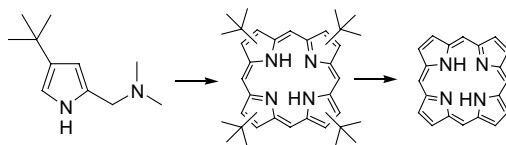
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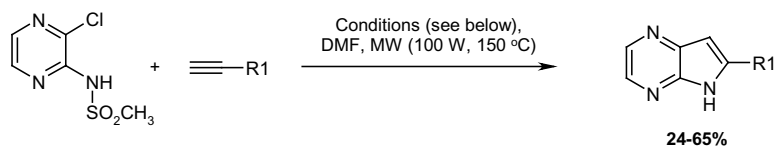
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**An improved method for the synthesis of 6-substituted-5H-pyrrolo[2,3-b]pyrazines via palladium-catalyzed heteroannulation using microwave heating**

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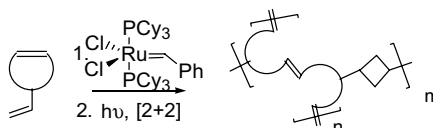
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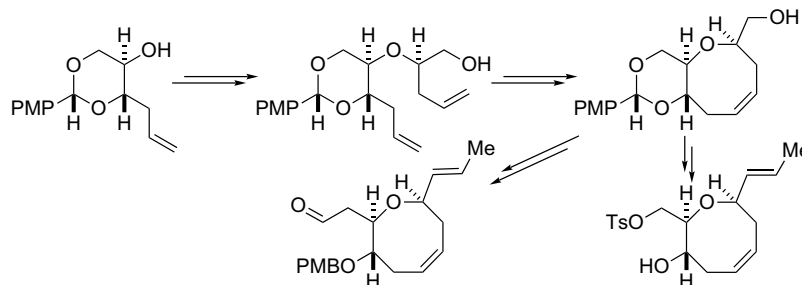
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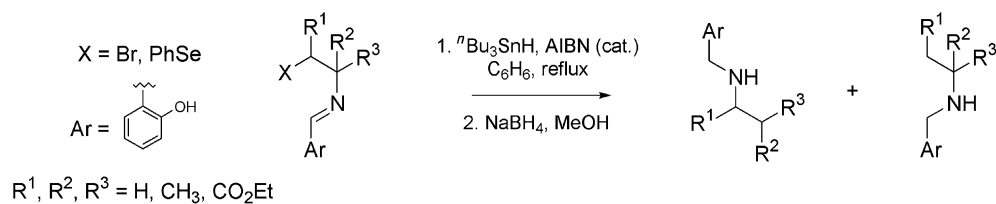
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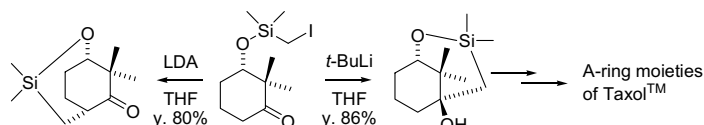
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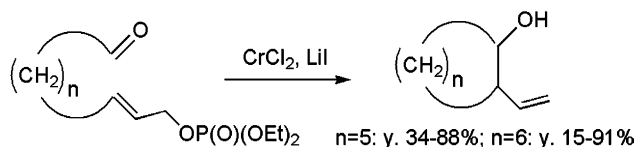
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**Synthetic studies on the seven- and eight-membered rings by the intramolecular Nozaki–Hiyama reaction of the allylic phosphates**

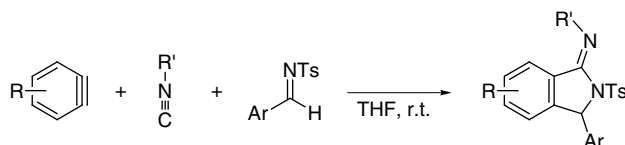
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Mitsuhiro Iwamoto, Masayuki Miyano, Masayuki Utsugi, Hatsuo Kawada and Masahisa Nakada\*


**Straightforward access to 2-iminoisoindolines via three-component coupling of arynes, isocyanides and imines**

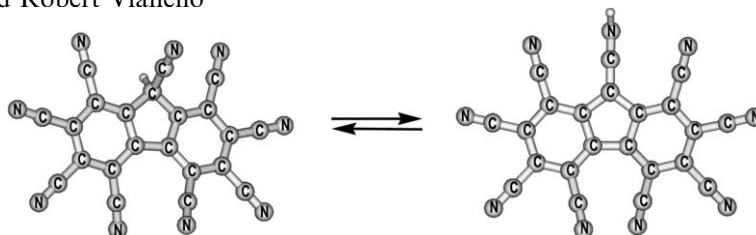
pp 8659–8662

Hiroto Yoshida,\* Hiroyuki Fukushima, Joji Ohshita and Atsutaka Kunai\*


**Extending the acidity ladder of neutral organic superacids—a DFT-B3LYP study of deprotonation of nonacyanofluorene**

pp 8663–8666

Zvonimir B. Maksić\* and Robert Vianello

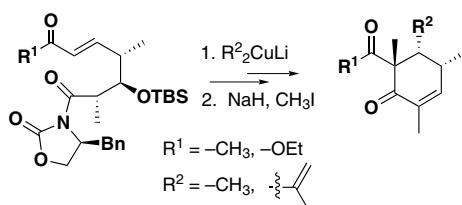


Nonacyanofluorene and its prototropic tautomer represent powerful neutral organic superacids both in the gas phase and in dimethylsulfoxide (DMSO), as revealed by the DFT-B3LYP calculations.

**Formation of highly substituted chiral cyclohexanone derivatives using a tandem conjugate addition/cyclisation**

pp 8667–8671

David W. Jeffery and Michael V. Perkins\*



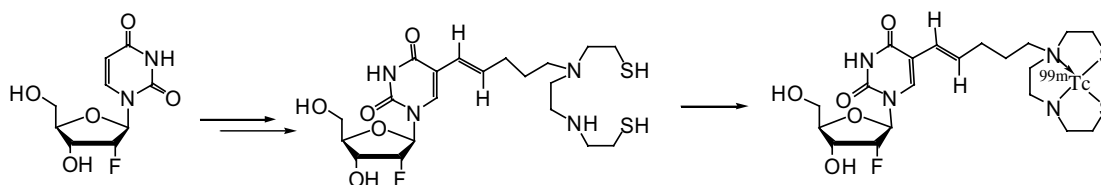
A tandem conjugate addition/cyclisation approach, that allows the synthesis of chiral highly substituted cyclohexanones and cyclohexenones, which is applicable to natural product syntheses has been developed.



**Synthesis of a technetium-99m-labeled thymidine analog: a potential HSV1-TK substrate for non-invasive reporter gene expression imaging**

pp 8673–8676

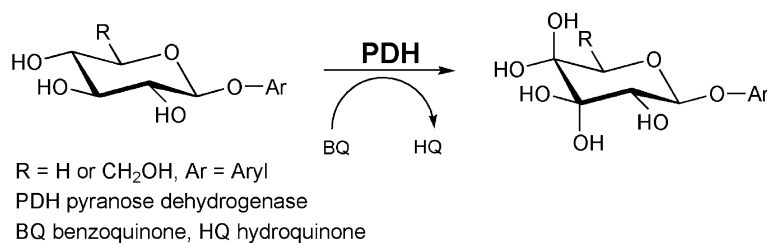
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**A new enzyme catalysis: 3,4-dioxidation of some aryl β-D-glycopyranosides by fungal pyranose dehydrogenase**

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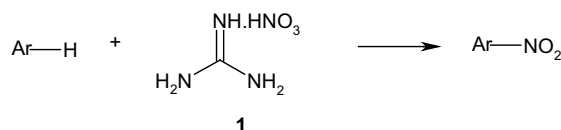
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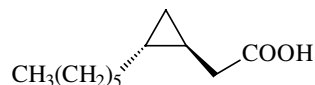
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**The absolute stereochemistry of cascarillic acid**

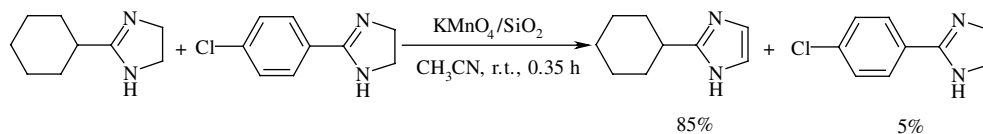
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**Novel and chemoselective dehydrogenation of 2-substituted imidazolines with potassium permanganate supported on silica gel**

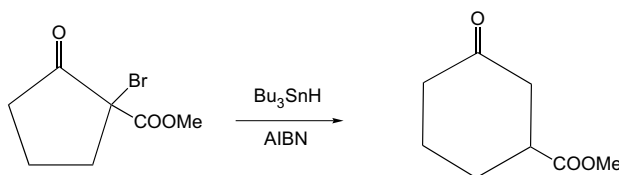
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**The Dowd–Beckwith ring expansion: a theoretical study**

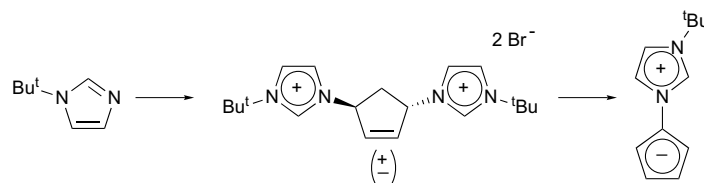
Diego Ardura and Tomás L. Sordo\*

pp 8691–8694

**Synthesis of a new zwitterionic cyclopentadienyl-imidazolium compound and isolation of the 3,3'-(trans-3,5-cyclopentenyl)di(1-tert-butylimidazolium)bromide intermediate**

Karl S. Coleman,\* Simon Turberville, Sofia I. Pascu and Malcolm L. H. Green

pp 8695–8698

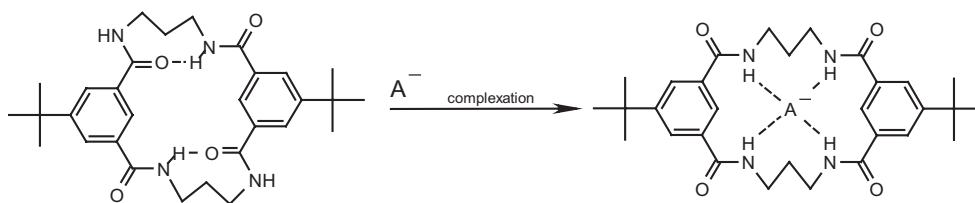


The first example of a zwitterionic cyclopentadienyl compound with a positively charged imidazolium ring directly attached to the Cp ring is prepared.

**Anion induced conformational switch of a macrocyclic amide receptor**

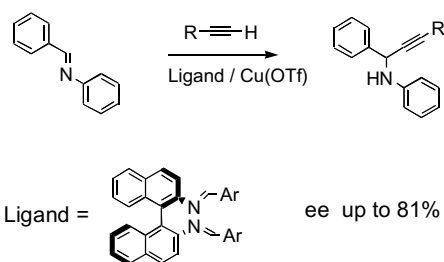
pp 8699–8703

Michał J. Chmielewski, Agnieszka Szumna and Janusz Jurczak\*

**Enantioselective addition of phenyl and alkyl acetylenes to imines catalyzed by chiral Cu(I) complexes**

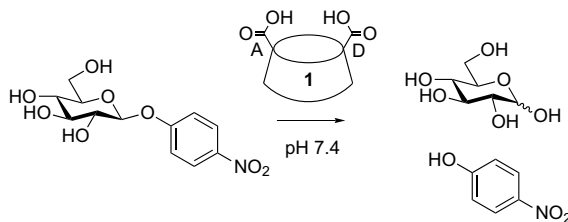
pp 8705–8708

Maurizio Benaglia,\* Diego Negri and Gianmaria Dell'Anna

**An artificial enzyme that catalyzes hydrolysis of aryl glycosides**

pp 8709–8711

Cyril Rousseau, Naja Nielsen and Mikael Bols\*

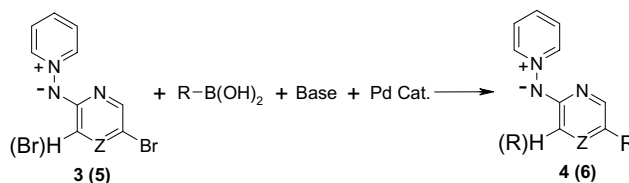


Normally enzyme catalysis is the prerogative of proteins. However the carbohydrate derivative **1** catalyzes the hydrolysis of aryl glycosides at neutral pH with a  $k_{cat}/k_{uncat}$  of up to 35 and with substrate selectivity.

**Suzuki reaction on pyridinium *N*-(5-bromoheteroar-2-yl)aminides**

pp 8713–8715

M. José Reyes, M. Luisa Izquierdo and Julio Alvarez-Builla\*

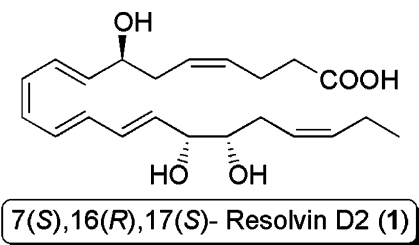


The Suzuki cross-coupling reaction takes place efficiently on bromoaminides **3 (5)** employing  $Cs_2CO_3$  as base and  $Pd(PPh_3)_4$  as catalyst, yielding mono- and di-coupled products **4 (6)**.

**First total synthesis of 7(*S*),16(*R*),17(*S*)-Resolvin D2, a potent anti-inflammatory lipid mediator**

pp 8717–8720

Ana R. Rodríguez and Bernd W. Spur\*

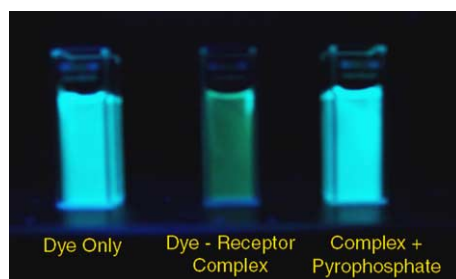


A total synthesis of a biological highly active lipid mediator derived from docosahexaenoic acid is described.

**An indicator displacement system for fluorescent detection of phosphate oxyanions under physiological conditions**

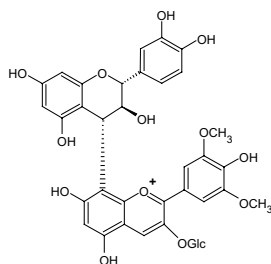
pp 8721–8724

Roger G. Hanshaw, Sarah M. Hilker, Hua Jiang and Bradley D. Smith\*

**Structure determination and colour properties of a new directly linked flavanol–anthocyanin dimer**

pp 8725–8729

Erika Salas,\* Christine Le Guernevé, Hélène Fulcrand, Céline Poncet-Legrand and Véronique Cheynier

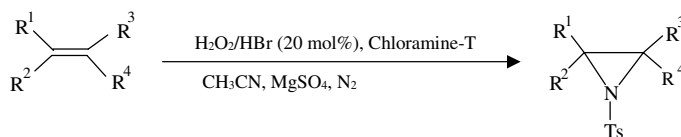


The structure and conformation of a directly linked catechin–malvidin 3-*O*-glucoside dimer were determined by spectroscopy NMR and its colour properties were studied.

**An efficient transition metal-free aziridination of alkenes with Chloramine-T using aqueous H<sub>2</sub>O<sub>2</sub>/HBr**

pp 8731–8732

Suman L. Jain, Vishal B. Sharma and Bir Sain\*

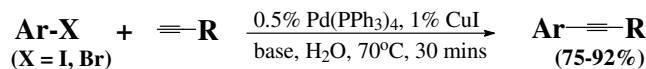




**Palladium catalyzed alkylation of aryl halides (Sonogashira reaction) in water**

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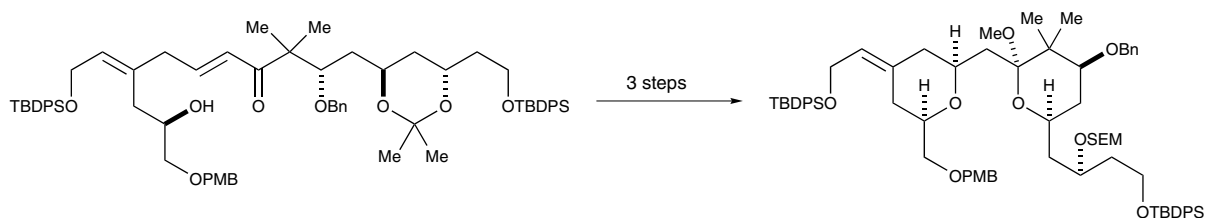
Santanu Bhattacharya\* and Saumitra Sengupta\*



**A stereoselective synthesis of the C(1)–C(16) fragment of the bryostatins**

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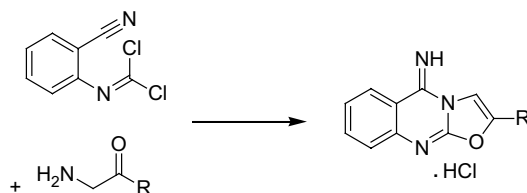
Matthew Ball, Anne Baron, Benjamin Bradshaw, Hiroki Omori, Somhairle MacCormick and Eric J. Thomas\*



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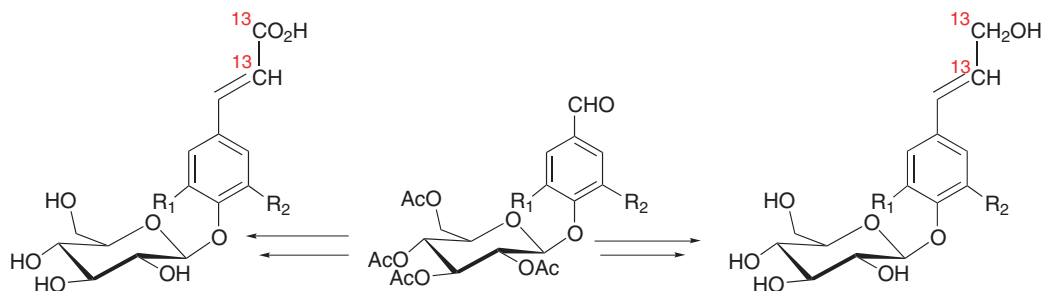
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**First synthesis of (1,2-<sup>13</sup>C<sub>2</sub>)-monoglucosides**

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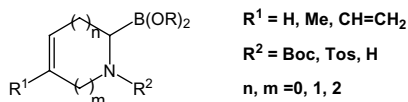
Vickram Beejmohun, Eric Grand, François Mesnard, Marc-André Fliniaux and José Kovensky\*



**Synthesis of new boron analogues of cyclic carboxylic  $\alpha$ -amino acids using ring-closing metathesis reactions**

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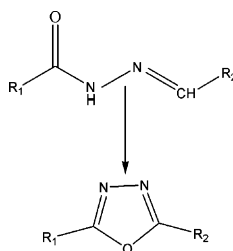
Alain Hercouet, Catherine Baudet and Bertrand Carboni\*



**Microwave assisted syntheses of 2,5-disubstituted 1,3,4-oxadiazoles**

pp 8753–8756

Shahnaz Rostamizadeh\* and S. A. Ghasem Housaini

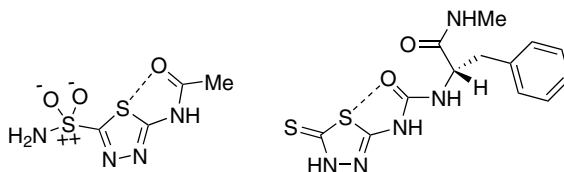


2,5-Disubstituted 1,3,4-oxadiazoles have been synthesized from the oxidation of 1-acyl-2-arylidene hydrazine with potassium permanganate on the surface of solid mineral support as well as in the mixture of acetone and water under microwave irradiation.

**Intramolecular nonbonded S...O interaction in acetazolamide and thiadiazolinethione molecules in their dimeric crystalline structures and complex crystalline structures with enzymes**

pp 8757–8761


Yoshimitsu Nagao,\* Takashi Honjo, Hitoshi Iimori, Satoru Goto, Shigeki Sano, Motoo Shiro, Kentaro Yamaguchi and Yoshihisa Sei



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\*Corresponding author

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