Rapid Communications

858 Synthetic studies on tetrastilbenylmethane dendrimers: preparation and optical properties of a second generation dendron

A second generation tristilbenymethylstyrene dendron is prepared from New Fuchsir. Heck reaction of arenediazonium salts with vinyl trimethylsilane is strategically used to construct the focal styrene unit.

Papers

Synthesis of optically active benzocyclobutene and biphenylene-based unusual $\alpha$-amino acid derivatives

Optically active benzocyclobutene and biphenylene based unusual $\alpha$-amino acid derivatives have been prepared via a six step sequence using Schöllkopf chiral auxiliary in a very high diastereoselective manner.
873 Molecular complexity from aromatics: Synthesis of embellished endo tricyclo[5.2.2.0\(^2\cdot6\)]undecanes

![Chemical structure](image)

Vishwakarma Singh* & Dilip K Tosh

876 Tetralone acids as intermediates for the synthesis of podophyllotoxin analogues

Tetralone acids have been synthesised as intermediates for the synthesis of podophyllotoxin analogues

Y B Basavaraju* & C Anjanamurthy

881 Synthesis and characterization of triorganotin esters of heteroaromatic carboxylic acid and crystal structure of \( \text{Bu}_3\text{SnO}_2\text{CCH}_2\text{C}_8\text{H}_6\text{N} \) and \( \text{(PhCH}_2\text{)}_3\text{SnO}_2\text{CC}_5\text{H}_4\text{N} \)

Fifteen triorganotin esters of heteroaromatic carboxylic acid have been synthesized. Crystal structures of \( \text{Bu}_3\text{SnO}_2\text{CCH}_2\text{C}_8\text{H}_6\text{N} \) and \( \text{(PhCH}_2\text{)}_3\text{SnO}_2\text{CC}_5\text{H}_4\text{N} \) have been determined.

Handong Yin*, Chuanhua Wang, Yong Wang, Chunlin Ma & Daqi Wang

889 Synthesis of [dibenzyl(heteroaromaticcarboxylato)tin(IV)] oxides and crystal structure of [dibenzyl (2-furanylcarboxylato)tin(IV)] oxide

Ten [dibenzyl(heteroaromaticcarboxylato)tin(IV)] oxides have been synthesized by the reaction of heteroaromatic carboxylic acids with the dibenzyltin oxide and characterized by elemental analysis, IR, and NMR spectra. The compounds have been tested against two human tumor cell lines: MCF-7 and WiDr. The results show that some compounds have higher activities in vitro. The molecular structure of [dibenzyl(2-furanylcarboxylato)tin(IV)] oxide is determined by X-ray single crystal diffraction.

Handong Yin*, Chunlin Ma, Yong Wang & Rufen Zhang

INDIAN J CHEM, 42B (4) 2003
Effect of aqueous solutions of various alcohols on kinetics of aromatic nucleophilic substitution reaction of 1-fluoro-2,4-dinitrobenzene with piperidine

A Habibi Yangjeh* & M R Gholami

In an attempt to prepare compounds incorporating both the coumarin and oxadiazole moieties, three of them having oxadiazole unit directly attached to 3 position of the coumarin, and two having oxadiazole system attached at 7 position through an ether linkage to 4- methyl umbelliferone have been synthesized. All these compounds show good antiinflammatory and analgesic activity. The highest activity is observed in compound carrying p-chlorophenyl substituent. These compounds have been tested for their antimicrobial activity also.

M S Y Khan* & M Akhtar

2,6,7-Trisubstituted-2H-3,4-dihydro-1,4-benzoxazin-3-one derivatives have been prepared and subjected to antimicrobial activity against different gram-positive and gram-negative bacteria and the fungus C. albicans.

Ismail Yalcin*, Betul P Tekiner, Ilkay Yildiz Oren, Ozlem Temiz Arpaci, Esin Aki-Sener & Nurten Altanlar

Uracil derivatives are condensed with ethyl bromoacetate to give N7-ethoxycarbonyl derivatives. The hydrazide derivatives of these compounds subsequently react with 1,2-diketones to give corresponding pyrimido pyridazine derivatives.

A K Padhy, M Bardhan & C S Panda*

INdIAN J CHEM, 42B (4) 2003
Optimization of protocols for solid-phase synthesis on a flexible crosslinked support: Synthesis of [Leu\(^5\)]enkephalin

I M Krishna Kumar & Beena Mathew*

OsO\(_4\)-catalyzed synthesis of \(\alpha\)-amino ketones: improvement of yield and enantioselectivity

Prodeep Phukan

Microwave-enhanced Knoevenagel reaction catalyzed by calcium oxide

Yanqing Peng & Gonghua Song*

Synthesis of isoxazolyloxadiazolines and thiazolidinones

E Rajanarendar*, Md Afzal & K Ramu
931 Studies on syntheses of 1-alkyl-2-substituted-thiazolylbenzimidazoles
The reaction of 1-alkyl-2-(α-bromoacetyl-benzimidazoles with substituted thioureas in DMF at RT gives 1-alkyl-2-substitutedthiazolylbenzimidazoles. Alternative syntheses of the title compounds are also described.

P K Dubey*, A Naidu & C Ravi Kumar

935 An efficient chemoselective production of amines from azides using AlCl3/NaBH4
A practical reagent system AlCl3/NaBH4 is used for the preparation of amines from azides under mild reaction conditions, in excellent yields.

S Raja Ram, K Purushothama Chary, S Salahuddin & D S Iyengar*

938 The effect of Lewis acidity in carbonyl coupling reactions
Higher Lewis acidity of the catalyst predicts better yield.

Biswajit Purkayastha, Krishna S Deka (née Krishna Sen) & Dibakar C Deka*

941 Syntheses and biological activities of 2-(3-methylbenzoylamino)-5-aryloxymethyl-1,3,4-oxadiazoles
1-Aryloxyacetyl-4-(3-methylbenzoyl)thiosemicarbazides 3a-h are synthesized under phase transfer catalysis. Compounds 3a-h on cyclization with mercuric acetate in glacial acetic acid furnish 2-(3-methylbenzoylamino)-5-aryloxymethyl-1,3,4-oxadiazoles 4a-h. The preliminary activities of 4 on promoting wheat growth are tested.

Zheng Li, Xicun Wang* & Xiuchun Wang

INDIAN J CHEM, 42B (4) 2003
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<td>Pentahydroxycholestenone derivative from Eastern Himalayan yew</td>
<td>Vaishali Chakraborty &amp; Manobjyoti Bordoloi*</td>
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<td>946</td>
<td>Three new apianen lactones from <em>Dioscorea bulbifera</em> L.</td>
<td>Shangzhen Zheng*, Zhen Guo, Tong Shen, Xudong Zhen &amp; Xuwei Shen</td>
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<td>Two new O- and C-glycosylxanthones from <em>Gentiana lizuensis</em> Franch</td>
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<td>1, 5-Dihydroxy-3, 8-dimethoxyxanthone from <em>Swertia cuneata</em></td>
<td>K S Khetwal*, P S Rajput, Kunal Sajwan, Shachindra Pathak &amp; Alka Adhikari</td>
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A new pentahydroxycholestenone derivative has been isolated from *Texas baccata* from Arunachal Pradesh, India and its structure has been established by extensive use of 1D and 2D NMR spectroscopy.

Three new diterpenic apianen lactones have been isolated from the root of *Dioscorea bulbifera* L. and their structures established.

Two new xanthone glycosides, 3-O-β-D-glucopyranosyl-1,6-dihydroxy xanthone 1 and 3-C-β-D-glucopyranosyl-1-hydroxy-7-methoxyxanthone 2 have been isolated. Their structures have been established by spectroscopic data.

A new 1, 5-dihydroxy-3, 8-dimethoxyxanthone 1 has been isolated from *Swertia cuneata* (Gentianaceae) and identified by means of chemical and UV, 1H NMR, 13C NMR and mass spectral data.
A rare flavon glycoside from *Aerva tomentosa* has been isolated which has shown marked antimicrobial and hepatoprotective activities.

From the perianth lobes of *A. tomentosa*, kaempferide 3-0-(6'-O-acetyl-4''-O-α-methylsianaplyl)neohesperidoside has been isolated which has shown marked antimicrobial and hepatoprotective activities.

![Chemical structure](image)

### Authors
B Jaswant, V Ragunathan* & N Sulochana

Authors for correspondence are indicated by (*)