Conformation driven complexation of two analogous benzimidazole based tripodal ligands with Ag(I) resulting in a trigonal prism and a coordination polymer

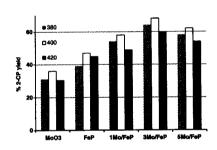
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Complexation of silver(I) tetrafluoroborate with two analogous benzimidazole based tripodal ligands namely 1-Et and 1-OMe, led to the formation of a zero dimensional trigonal prism in case of the former, whereas a one dimensional coordination polymeric ladder in case of the latter. The complexation reactions in respective cases were found to depend on the conformation of the ligating center of the two ligands.

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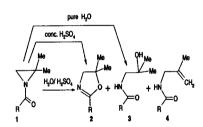
One-pot four component synthesis of novel 3-furyl coumarin derivatives

Synthesis of 3-furyl coumarin derivatives have been achieved by reaction of 4-chloro-3-formylcoumarin, secondary amines, dialkyl acetylenedicarboxylates and diversely substituted isocyanides using four component, one-pot reaction.



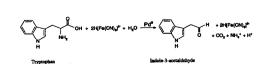
Ammoxidation of 2-methyl pyrazine to 2-cyano pyrazine on $MoO_3/$ $FePO_4$ catalysts

The influence of a small amount of Mo=O (1, 3 and 5 wt.% MoO₃) impregnated on FePO₄ and its resultant effect on the acidity was studied for the ammoxidation of 2-methyl pyrazine (2-MP) to 2-cyano pyrazine (2-CP) in the temperature range of 380-420°C.



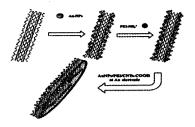
Experimental and theoretical rearrangement of N-acyl-2,2-dimethylaziridines in acidic medium

The acidic aqueous solutions of the N-acyl-2,2-dimethylaziridines 1 lead to a mixture of oxazolines 2, amidoalcohols 3 and methallylamides 4. The mechanism proposed to explain the formation of products 2-4 have been confirmed by the quantum chemical calculations using the DFT/B3LYP method and 6-311++G(2d,2p) basis set.



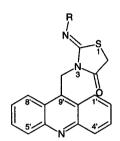
Palladium(II)-catalyzed oxidation of L-tryptophan by hexacyanoferrate(III) in perchloric acid medium: a kinetic and mechanistic approach

Palladium(II)-catalyzed oxidation of L-tryptophan by hexacyanoferrate(III) in aqueous perchloric acid medium has been investigated. The effect of temperature on the reaction rate has been studied and the activation parameters have been evaluated and discussed. The final oxidation products are identified as indole-3-acetaldehyde, ammonium ion and carbon dioxide.



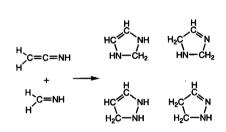
Acriflavine immobilized onto polyethyleneimine-wrapped carbon nanotubes/gold nanoparticles as an eletrochemical sensing platform

Polyethyleneimine wrapped, multi-walled carbon nanotubes functionalized with a carboxylic acid group and gold nanoparticles has been utilized as a platform to immobilize poly(acriflavine) and used as electrochemical sensor for H_2O_2 .



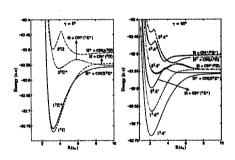
Unexpected regiospecific formation and DNA binding of new 3-(acridin-9-yl)methyl-2-iminothiazolidin-4-ones

New DNA-binders 3-(acridin-9-yl)methyl-2-R-imino-1,3-thiazolid-in-4-ones were regiospecifically synthesized from unstable (acridin-9-yl)methyl thioureas and methyl bromoacetate (MBA) or bromoacetyl bromide (BAB) by a mechanism involving a transient spiro 9,10-dihydroacridine intermediate.



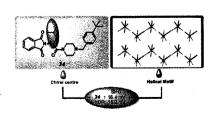
Theoretical insights into the cycloaddition reaction mechanism between ketenimine and methyleneimine: An alternative approach to the formation of pyrazole and imidazole

The cycloaddition reaction mechanism between interstellar molecules, ketenimine and methyleneimine, has been systematically investigated theoretically. The products of this reaction are pyrazole and imidazole compounds, respectively.



Ab initio adiabatic and quasidiabatic potential energy surfaces of H++ CN system

We present *ab initio* three dimensional potential energy surfaces for H⁺+ CN system. The calculations were performed at the internally contracted multi-reference configuration interaction (*ic*MRCI) level of theory using Dunning's correlation consistent polarized valence triple zeta (*cc*-pVTZ) basis set. Adiabatic and quasidiabatic surfaces were computed for ground and first excited electronic states for the collinear and perpendicular approaches of H⁺. Nonadiabatic effects arising from radial coupling have been analyzed in terms of nonadiabatic coupling matrix elements (NACME) and coupling potentials.



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Functionalized organic frameworks explored as second order NLO agents

New chiral phthalimides possessing terminal arylpiperazines have been studied for their solid-state properties. The second order NLO response of all the listed phthalimides was substantiated with the aid of computational study and crystal engineering approach.

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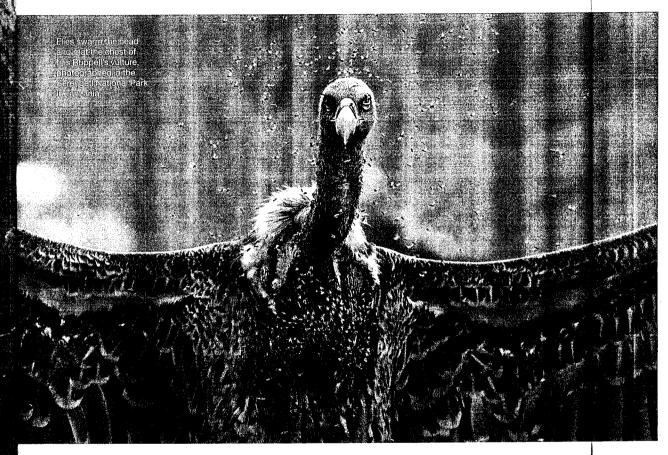
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^{*}Accepted under the editorship of Stephanie L. Knight, Gwendolyn M. Lloyd, and Fran Arbaugh along with associate editors David A. Gamson, James Nolan Jr., Scott P. McDonald, and Anne Elrod Whitney.

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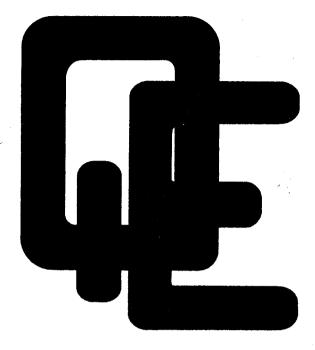
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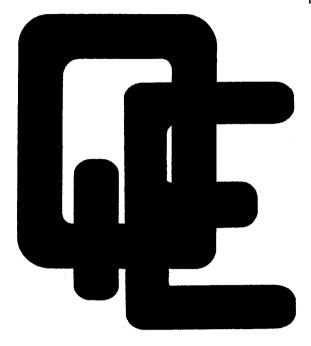
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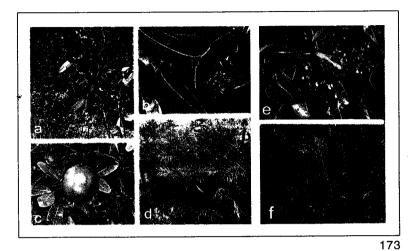


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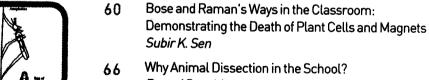
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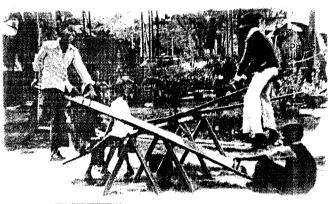
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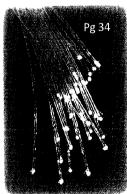
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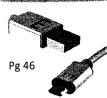
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Chief Editor : Deepika Kachhal Senior Editor: Shyamala M. Iyer Sub Editor : Vatica Chandra



Vol 60

: Sanjeev Kumar, Gajanan P. Ohone

Joint Director (Production) : V.K. Meena Cover Design

E-mail (Editorial)

E-mail (Circulation) Website

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Let noble thoughts come to us from all sides

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Chief Editor's Office: Room No. 660, Soochna Bhawan, CGO Complex, Lodi Road New Delhi 110 003 Ph: 24362971. Yojana (English): Room No. 647, Soochna Bhavan, C.G.O. Complex, Lodi Road, New Delhi - 110 003. Business Manager (Hqs.): Ph: 24367260, 24365609, 24365610

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YOJANA February 2016

February 2016

Chief Editor : Deepika Kachhal Senior Editor: Shyamala M. Iyer Sub Editor : Vatica Chandra



Vol 60

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Joint Director (Production): V.K. Meena Cover Design

E-mail (Editorial)

: pdjucir@gmail.com E-mail (Circulation) Website : www.vojana.gov.in

Facebook

: https://www.facebook.com/pages/Yojana-Journal

: volanace@gmail.com

Let noble thoughts come to us from all sides

Rig Veda

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YOJANA February 2016



/February 2016 ₹ 15/-

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Triplicane, Chennai 600 005
Ph: (044) 2844 0042
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DESIGN & LAYOUT COMPUPRINT Ph: 044 28116768 www.compuprint.in

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Published and Printed by L. Madhavan on behalf of Vivekananda Kendra from 5, Singarachari Street, Triplicane, Chennai 600005, at M/s. RNR Printers and Publishers, 8, Thandavarayan Street, Triplicane, Chennai 600005.

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