

Nanostructured Catalysts

Solid Supported Nano Structured Cu-Catalyst for Solvent/
Ligand Free C₂ Amination of AzolesPratap Kumar Dutta,^[a] Subhadrata Sen,^[a] Debasree Saha,^[a,b] and Basabbijayi Dhar^[a]

Abstract Ligand- and solvent-free catalytic conditions that harness a nanostructured-Cu catalyst encapsulated in TiO₂ has been reported for C₂-amination of azoles (benzothiazole, benzoxazole and thiazole). The reaction is highly regioselective.

The catalyst is robust, inexpensive and can be recycled up to four times. This strategy was further used for the synthesis of a small molecule with anti-tiv and anti-tumor properties.

Introduction

By virtue of imparting therapeutic modulations and physical ailments on disease, natural products and drug candidates play a significant role in modern day society. The extent of their utility depends on the ease with which they can be accessed.^[1] As a significant portion of these biologically active compounds comprise a rational mix of carbon and nitrogen atom, C-N bond forming reactions enact a crucial role in generating these molecules.

Among these compounds, 2-aminoazoles, has recently garnered considerable attention among medicinal and synthetic organic chemists. These compounds have displayed immense therapeutic potential and, as a consequence, are coveted synthetic targets. There are a number of strategies to access these compounds. For example (a) cyclo-condensation reaction between two functionalized precursors, such as Hantzsch amino thiazole,^[2a] (b) transition metal catalyzed C₂-amination reactions, which includes palladium-catalyzed Buchwald-Hartwig amination and copper catalyzed Ullmann-Goldberg reactions^[2b-d], (c) metal-free C-N bond-*vs* coupling method through oxidative aromatization pathways,^[3a-c] (d) copper-catalyzed electrophilic amination reaction of organometallic reagents with functionalized amines as electrophilic source.^[3d-f] Among these, the catalytic pathways have always been most effective. Interestingly these catalytic systems are plagued with disadvantages, such as difficulty in isolation of final products from trace metal impurities, recyclability and high price of the catalysts and moisture and air sensitivity, which in turn reduces the efficiency of the catalyst. Hence, the identification of a suitable catalyst that can alleviate these disadvantages is highly desirable.

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As a result of continuous ever-increasing exploitation by human civilization, our environment is under steady decay. To prevent its further degeneration, awareness for environment preservation and subsequent "green initiatives" has started to evolve in the last few decades. As a part of such initiatives, metal nano-structured catalysts (nano catalysts) with their own environmental compatibility and better reusability (relative to their homogeneous and other heterogeneous counterparts) has emerged as a more attractive alternative.^[4] These nanocatalysts are attractive candidates as heterogeneous catalysts for various C-N bond-forming reactions.^[5]

Recently we have been investigating nano-catalysts that can facilitate C₂ amination of azoles. Copper is one of the most versatile metal catalysts after palladium that has been applied in diverse C-N bond-forming reactions.^[6,7] Hence, we surmised that development of a nanostructured copper catalyst for this reaction will be extremely beneficial and will definitely add immense value to the existing repertoire of nano-catalysts in organic synthesis.

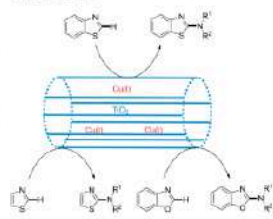


Figure 1. Solid-supported nanostructured TiO₂-encapsulated Cu catalyst. A versatile catalyst for the C₂ amination of benzothiazole, benzoxazole and thiazole.

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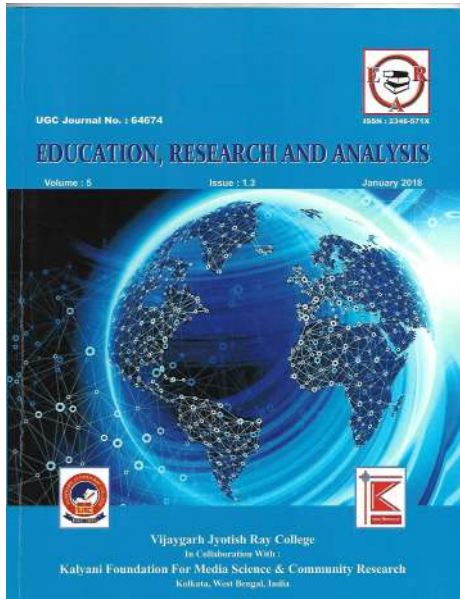
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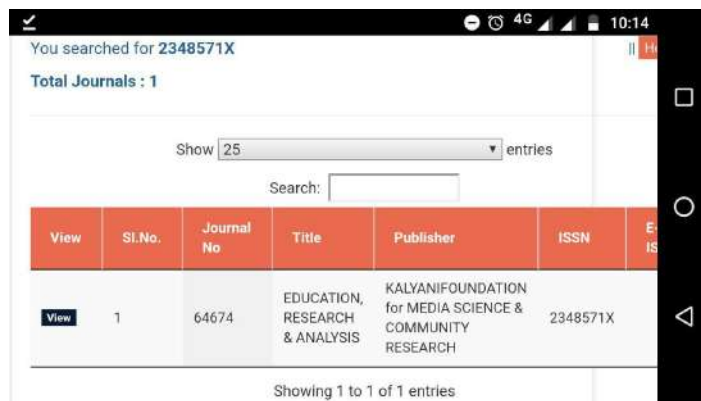
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Interdisciplinary Study and Research: A Review

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Abstract: Presently interdisciplinary research and study (IDRS) has been widely accepted globally because of its several advantages. Through IDRS, we can approach a problem from different angle or perspective and ultimately can have a better solution at hand. It also opens up several avenues of related research work or study. Considering Indian Education system it has got a few drawbacks as well. Since, many researchers have pointed to the University Structure as a strong barrier to IDRS method. Keeping in mind the current global issues like global warming, climate friendly sustainable agriculture, social and economic issues directly or indirectly associated to industrial development in developing countries like us etc are more conveniently can be resolved through IDRS compared to conventional disciplinary approach. Funding agencies in many countries are encouraging collaborative proposals involving IDRS. Critically assessing the drawbacks and broadening the applicability areas, IDRS surely can enlighten us about the best possible outcomes of the complex issues.

Introduction

Eminent academicians from various fields have defined 'discipline' in many forms. Since the of Aristotle the structure of discipline is reconstructed enormously. As civilization proceeded advancement of communication, industrialization, science, technology, research and development is now at an era of learning where the boundaries of the typical disciplines are gradually fading away. Disciplines are diverged, perturbed, integrated and sometimes merged to form new disciplines or to study and research. According to Wagner et al multidisciplinary approach uses perspectives from all disciplines while the disciplines retain their original identity. Interdisciplinary research and study is integrated effort from the multiple disciplines whereas transdisciplinary approach goes beyond the of the disciplines in such an integrative way that the individual discipline loses relevance. No Academic defined interdisciplinary research as "A mode of research by teams or individuals that use information, data, techniques, tools, perspectives, concepts, and/or theories from two or more distinct or bodies of specialized knowledge to advance fundamental understanding or to solve problems or relations are beyond the scope of a single discipline or area of research practice."

Benefiting through integration

Multidisciplinary or Interdisciplinary or transdisciplinary approach obviously has got several advantages over disciplinary mode. Valerie Gayraud explained strength and opportunities of multidisciplinary as it enables us to have a) different approach and perspective of a problem b) access or insight in disciplines c) new networks of knowledge sharing d) increased motivation as application areas are e) a platform for setting and exploring new ideas f) a pool of disciplinary experts g) an indispensability for tackling complex issues h) more rapidly converged areas i) bridged fundamental and applied research j) augmented return k) new areas of research etc. According to Kabis et al both diversity and complexity are high in interdisciplinary approach compared to multidisciplinary approach. "With its concerns over food safety, security, agriculture, fuel, energy, environment and sociocultural changes are more inclined to overall sustainable growth and development. The key issues and challenges are critical in nature, demanding contributions from multiple disciplines in a concerted way. We have no option other than interdisciplinary or transdisciplinarity where disciplinary experts will have the last word. Accountability of interdisciplinary or transdisciplinary research works are measured through visibility by estimating the results of the collaborative efforts on publications."

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Identification of Contextual Problems of Land Utilization and its Planning Through Land Capability Classification on Purba Medinipur District, W.B.

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Abstract

"Land as a geographical space that utilized for the satisfaction, which the farm population derives from the type of agricultural developed, provision for future production and socio economic development" (J.L.Buck,1951). That way land uses are the most significant and functional variable for socio-economic development of a geographical space Purba Medinipur district. Comparatively population growth and unscientific land utilization process are most prominent indicators for land degradation with reducing agricultural productivity of this region over the day by day. In consequently, to needs the study with land capability classification for proper land use planning in different regional sector of study area. That way "Land capability classification is an exercise for interpretative grouping and grading of soil according to their potentialities and limitations, it helps to organize significant soil factors for conservation" (Stallings, 1975). To promote optimum agricultural growth, carryout the balance of regional development and also land utilized related sustainable development are the fundamental objective and planning of that study.

Key words: Land Utilization, Agricultural Productivity, Land Capability Index (LIC), Optimum Agricultural Growth, Sustainable Development.

Introduction: Land is a complex and dynamic combination factors of geology, topography, hydrology, soil, micro-climates, communities of plants and animals with also vital interacting by peoples activities (Shaxson, T.F., Hudson, N.W., Sanders, D.W., Roose E., Moldenhauer, W.C., 1989). Land use means the use of land in a certain area. Land use

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ECONOMIC BOTANY


A pilot study of honey samples from different mangrove plants of Sundarban forest: Making a case for *Aegiceras corniculatum* (khalsi) honey as a potential therapeutic agent

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Keywords: Sundarban, mangrove, honey, therapeutic, antioxidant, antimicrobial

Abstract
West Bengal has a unique ecosystem which is rich in bio-diversity and natural resources. Prominent features include a part of the world's largest ecosystem including the Sundarban mangrove forests. Although many reports have emphasized the immense value of this mangrove ecosystem, many of its natural products, like the 'Sundarban Honey', have not been characterized systematically and scientifically. Commercially available 'Sundarban honey' is not a single source product, but usually a blended sample. This pilot work presents preliminary results obtained from four mangrove floral sources that show significant anti-oxidant potential based on standard tests like estimation of their polyphenol and flavonoid content, FRAP value, DPPH assay. The average total polyphenol content of uni-floral honey samples varied from 26.5 ± 1.0 mg (for khalsi) to 15.2 ± 1.2 mg (for gewa) while that of blended multi-floral honey was around 18 ± 3 mg of gallic acid equivalent. Flavonoid content of uni-floral honey ranged from 18.55 ± 0.79 mg (for khalsi) to 9.6 ± 1.05 mg (for gewa) while that of blended multi-floral honey was around 13-14 mg of quercetin per 100 g of honey. FRAP (ferric reducing ability of plasma) values ranged from 375 to 475 µM Fe (II) which is highly significant

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The autosomal ribosopathy SBDS with inherited bone marrow failure is regulated by essential 60S Ribosome Biogenesis Factor eIF6

Author: ARUNIMA BISWAS?

Category: Engineering, Science and Mathematics

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Abstract:

Recently, a number of congenital diseases, resulting from defects in ribosome biogenesis and maturation, have been discovered. Shwachman-Bodian-Diamond syndrome (SBDS) is one such ribosopathy, caused by deficiency of the highly conserved SBDS protein involved in 60S ribosome biogenesis. Characteristic clinical features include exocrine pancreatic insufficiency, neuro-cognitive dysfunction, bone marrow dysfunction and failure, leukemia predisposition. Studies in yeast show evidence of genetic interaction between the yeast SBDS protein (called Sdo1p) and eukaryotic Initiation Factor 6 (eIF6). eIF6 is an essential, conserved 60S ribosome biogenesis factor, required for pre-rRNA processing in the nucleus. It also escorts pre-60S particles from nucleus to cytoplasm for final maturation. Sdo1p, with the cytoplasmic GTPase elongation factor-like 1 protein, facilitates the release of yeast eIF6 from the pre-60S ribosomes in the cytoplasm which is crucial for final maturation of 60S subunits and for recycling of eIF6 to the nucleus. Nucleo-cytoplasmic shuttling of eIF6 is also regulated by its phosphorylation and dephosphorylation, mediated by casein kinase 1 and Ca^{++} -dependent calcineurin phosphatase, respectively. Thus, eIF6 release and recycling seem to be due to concerted actions of SBDS protein and eIF6 phosphorylation-dephosphorylation events. Inhibition of this process leads to defects in ribosome biogenesis and maturation and associated pathophysiology.

Keywords: Shwachman-Bodian-Diamond syndrome; ribosopathy; eukaryotic Initiation Factor 6; Nucleo-cytoplasmic shuttling; phosphorylation-dephosphorylation.

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PAPER

Magnetic field induced electrochemical performance enhancement in reduced graphene oxide anchored Fe₃O₄ nanoparticle hybrid based supercapacitor

Shreyasi Pal^{4,5,1,2}, Sumit Majumder^{4,2}, Shibsankar Dutta^{4,3}, Sangam Banerjee², Biswarup Satpati² and Sukanta De^{5,3}

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Abstract

We have prepared Fe₃O₄/reduced graphene oxide (rGO) hybrid materials via a simple, cost-effective hydrothermal technique in ambient conditions by combining with growth of Fe₃O₄ NPs with the reduction of graphene oxide in a one-pot synthesis. This hybrid material has been used to fabricate the electrodes of an electrochemical double layer supercapacitor having a specific capacitance of 451 F g⁻¹ at a scan rate of 5 mV s⁻¹. The external magnetic fields have a huge impact on the electrochemical processes which enhance the supercapacitor performance of the magnetic samples. The as-synthesized Fe₃O₄/rGO hybrid possesses high surface area, and an external magnetic field (0.125 T) allows electrolyte ions to penetrate deeper into the orifices of the electrode surface—i.e. ions can reach extra electrode surface—and thus improves the capacitance. As a result, the hybrid

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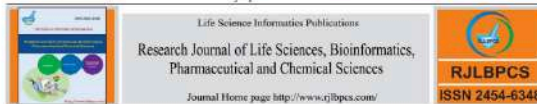
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COMPREHENSIVE STUDY OF COMPOSITE tRNA GENES IN ARCHAEL GENOME

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ABSTRACT: The analysis of archaean tRNA genes is gradually becoming more important in the field of bioinformatics for its essential role in evaluating the origin and evolution of tRNA molecule. tRNA genes in archaea often have introns intervening between exon sequences. The structural motif at the boundary between exon and intron is the bulge-helix-bulge. Precise insilico identification of the splice-sites on the bulges at the exon-intron boundaries conduce us to infer that a single intron-containing composite tRNA gene can give rise to more than one gene product. A thorough search of different tRNA molecules in archaean genomes revealed that tRNA^{Ala} (TGC) and tRNA^{Met} (GCG), and tRNA^{Gln} (TTG) and tRNA^{Pro} (TGG) in *Aciduliprofundum boonei* and tRNA^{Asp} (CTT) and tRNA^{Gln} (TTG) in *Acidilobus Saccharovorans* were co-located. Thus, assuming alternate splicing mechanism we speculated a number of composite tRNA genes giving rise to tRNA isodecoders in archaean genomes which required another layer of gene arrangement to settle their tRNA gene repertoires.

KEYWORDS: tRNA gene, bulge-helix-bulge, alternate splicing, overlapping tRNA, canonical intron.

Corresponding Author: Uttam Roy Mandal* M.Sc, M.Tech

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Comparative Analysis of miRNA-Target Prediction Algorithms with Experimentally Positive Data in *C. elegans* and *R. norvegicus* Genomes

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REVIEW ARTICLE

Metal Nanoparticles: An Efficient Tool for Heterocycles Synthesis and Their Functionalization via C-H Activation

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Abstract: **Background:** Metal nanoparticles have been extensively used in the synthesis of organic molecules during the last few decades especially due to their high catalytic activity. Organic reactions involving C-H functionalizations are very much in demand as they provide a direct method of derivatization of organic molecules, thus making the process economical. In the recent years, metal nanoparticles catalyzed C-H activation reactions have led to the design of useful molecules especially heterocyclic motifs which form the core structure of drugs and thus have high biological and industrial importance.

ARTICLE HISTORY

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Methods: In this review, we present a collection of reactions where metal nanoparticles are instrumental in the synthesis and functionalization of heterocycles via C-H activation. The review consists of three units namely, Ni(n)-copper catalyzed C-H activation reactions, nano-palladium catalyzed C-H activation reactions and other nano-metal catalyzed C-H activation reactions.

Results: The discussion reflects the scope of nano-metals as effective catalysts for the synthesis and functionalization of heterocycles as well as the efficiency of nano-metals towards catalysing economic and environmentally viable reaction protocols.

Conclusion: The theme of this review is to correlate nanometal catalysis, heterocyclic synthesis and C-H activation, each of which in itself forms an integral part of modern day chemical research. Thus, the review will hopefully highlight the need for future development and research in this area and be instrumental in guiding researchers towards fulfilling that goal.

Keywords: Heterocycles, C-H activation, nanometals, catalysis, organometallic, recycle

1. INTRODUCTION

The synthesis and functionalization of heterocycles occupies a significant position in synthetic chemistry and calls for special attention owing to the important physiological and biological activities of heterocycles [1]. Activation of C-H bonds is one of the most desired reactions towards synthesis of heterocycles due to its potential economical factor [2]. This results in the introduction of useful and easily transformable functionalities into carbon framework, thus facilitating synthesis of useful motifs.

Concern for the environment gradually led to synthetic chemists developing strategies involving use of reusable catalysts with minimum involvement of toxic additives and ligands. Homogeneous catalysis have high reactivity and turnover numbers. However serious disadvantages like metal contamination in the product and lack of catalyst reusability

restricts their use. Heterogeneous catalysis, on the other hand provides an alternative to homogeneous ones by minimizing the above disadvantages. However, the heterogeneous catalysis often have low reactivity due to limited number of 'active sites' thus leading to the application of harsh reaction conditions. Nanometal catalysis bridges the gap between homogeneous and heterogeneous catalysis by providing a semi-heterogeneous platform. In the last decade we have seen the emergence of nanometal catalysis for the synthesis of useful organic motifs [3].

Nanoparticle is defined as a small object that behaves as a whole unit and is sized between 1 and 100 nanometers. Scheme 1 shows the TEM (Transmission electron microscopy) image of a typical palladium nanoparticle system. Usually the metal nanoparticles can be generated by (i) chemical reduction of a metal salt (ii) thermal, photochemical, or sonochemical decomposition of a metal (0) complex (iii) hydrogenation of a coordinating olefinic moiety (iv) electrochemical reduction of higher valent species of the metal and (v) vapour phase deposition.

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সাগরদ্বীপের ভূগোল ও ভূগোলের সাগরদ্বীপ

সনৎকুমার পুরকাইত

ভূমিকা

‘সব দ্বীপ বারবার/গঙ্গাসাগর একবার’ এই প্রবাদ প্রচলন বাংলা ব্যাকরণ ছাড়াই দেশ কাল পার্থক্যের সীমানাকে ছুঁয়ে ফেলেছে। তেউষা বলে পৌরাণিক নিক থেকে গঙ্গাসাগরের মাথাঘা বিচার করে একবার প্রচলন আবার কেউ বা বলে দ্বীপদ্বীপের কটোর পরিমাণ মাথায় রেখে এই কথা ছড়িয়ে দেওয়া হয়েছে। নামের মধ্য দিয়ে কোথা যাচ্ছে যে এখানে সাগর ও গঙ্গা অর্থাৎ নদীর সাথে সমুদ্রে মেলবন্ধনহল। একটি নদীর মোহনায় যেহেতম অস্থিরতা থাকে আত্মবিক বিবেক করে ভারতীয় উপমহাদেশের কোন নদী যখন দক্ষিণ দিকের কোন সাগরে গিয়ে দেশে তার প্রাকৃতিক অস্থিরতা একটি নিচির প্রকৃতির হয়ে থাকে। তাই আমরা যারা সমাজবিজ্ঞানের চর্চা করে থাকি তাঁদের কাছে অবশ্য ভৌগোলিক প্রতিবন্ধকতাই প্রধান কারণ বলে বসে নেই। আনন্দ হিমালয় বিস্তৃত এই ভারতবর্ষের বিভিন্ন জায়গার ভূপ্রকৃতি বিভিন্ন রকম। হিমালয়ের পঙ্কজতার সাথে সাথে দ্বীপাঞ্চলের যোগাযোগ ব্যবস্থার অভাব একটা সমস্যা মানুষের প্রয়োজন অন্তরায় হয়ে নীড়াত। কিন্তু সময়ের সাথে সাথে সজ্ঞাতর বিকাশ ও যোগাযোগ ব্যবস্থায় আমূল পরিবর্তন এই ব্যবস্থার পরিবর্তন ঘটায়। যে সাগরে সন্তান বিসর্জনের কথা আমরা রবীন্দ্রনাথ ঠাকুরের ‘দেবতার প্রস’ কবিতায় পেয়েছি, সেই গঙ্গাসাগরে বর্তমানে সেই প্রতিবন্ধকতামূলক অনেকাংশে হ্রাস করা গেছে। তাই এই প্রবাদ প্রচলন আজ ইতিহাসের পাতায় জায়গা পেয়েছে। গঙ্গাসাগরের পৌরাণিক পূণ্যগাথার কথা মাথায় রেখে মানুষ একবার নয়, এখন বারবার যাচ্ছে পূণ্যভোগ্য গঙ্গাসাগরের কপিলমুনির সান্নিধ্য।

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Extended centromere and chromosomal mosaicism in some varieties of grass pea, *Lathyrus sativus* L.

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Kalyan Kumar De, Tuhin Pal, Animesh Mondal, Madhumita Majumder & Animesh Ghorai

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Abstract

An abnormal mitotic behavior revealing chromosomal mosaicism was observed in two among the three studied cultivars (cv. Nirmal, cv. Prateek and cv. Ratan) of *Lathyrus sativus*. Several numerical variants of chromosome complement were detected in the different cells coexisted with normal diploid cells in the somatic tissue of the same root-tip. Somatic chromosome number $2n = 14$ were found with the greatest frequency (67%); however, a spectrum of quite low percentage of discordant and variable chromosome numbers especially of aneuploidy mode, ranging from $2n = 11$ (9.6%), $2n = 12$ (8.7%), $2n = 13$ (4.7%) and $2n = 15$ (10.3%) in Nirmal cultivar were observed. In Prateek cultivar, the most

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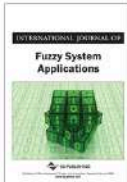
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579	Journal of Radiation Research and Applied Sciences	Taylor and Francis	NA	1687-8507	Astronomy
580	Journal of Rajasthan Academy of Physical Sciences	Rajasthan Academy of Physical Sciences	0972-6306	NA	Astronomy
581	Journal of Scientific Research	Faculty of Sciences, Rajshahi University	2070-0237	2070-0245	Astronomy
582	Karbala International Journal of Modern Science	University of Karbala	2405-609X	2405-6103	Astronomy
583	Nanosystems: Physics, Chemistry, Mathematics	St. Petersburg National Research University of Information Technologies, Mechanics and Optics	2220-8054	2305-7971	Astronomy
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586	The Nucleus	Pakistan Institute of Nuclear Science and Technology	0029-5698	2306-6539	Astronomy
587	AIMS Molecular Science	AIMS Press	NA	2372-0301	Bio chemistry
588	Applied Biological Research	Centre for Advancement of Applied Science	0972-0979	0974-4517	Bio chemistry
589	Bharatiya Vaigyanik evam Audyogik Anusandhan Patrika	National Institute of Science Communication and Information Resources	0771-7706	0975-2412	Bio chemistry
590	Biochemistry Insights	Sage Publications	1178-6264	1178-6264	Bio chemistry
591	Biotechnology Research and Innovation	Elsevier	2452-0721	NA	Bio chemistry
592	Defence Life Science Journal	Defence Scientific Information and Documentation Centre	2456-379X	2456-0537	Bio chemistry
593	Entomon	Association for Advancement of Entomology	0377-9335	NA	Bio chemistry



Role of Distance Metric in Goal Geometric Programming Problem (G² P²) Under Imprecise Environment

Payel Ghosh, Tapan Kumar Roy
 Source Title: International Journal of Fuzzy System Applications (IJFSA) 8(2)
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Abstract

The objective of this article is to tie a knot between distance measure and fuzzy and intuitionistic fuzzy optimization through goal programming. Firstly, a distance measure for an intuitionistic fuzzy number is developed, and then it is implemented into an intuitionistic fuzzy nonlinear goal programming. Then using some conditions, the distance measure of intuitionistic fuzzy number is converted into distance measure of fuzzy number and a comparative study using a numerical example is shown for highest applicability of distance measure based intuitionistic fuzzy goal programming than distance measure based fuzzy goal programming.

Article Preview

1. Introduction

Fuzzy means vague, imprecise. Intuitionistic fuzzy is the vagueness which comes from intuition. Real life situations which depend on human perception are better represented by intuitionistic fuzzy set (IFS). Intuitionistic fuzzy set theory was first introduced by Atanassov (1986). There are many progresses on intuitionistic fuzzy set inclusion, arithmetic operations and distance measures of intuitionistic fuzzy numbers (IFN) (Li 2014, Zhu & Li, 2015). However, intuitionistic fuzzy optimization is a new field for researcher. Moreover, it will be better if we can join mathematical development of intuitionistic fuzzy number such as distance measure of intuitionistic fuzzy number with intuitionistic fuzzy optimization.

Most of the researchers have developed distance measures and have shown their applications taking arbitrary IFNs. They have compared their results with some existing approaches and claimed that their proposed approach is better under certain angle. Atanassov (1999), Gzgorzewski (2004), Szmidt and Kacprzyk (1997), Wang et al. (2005) have given different point of views regarding distance measure of intuitionistic fuzzy sets. Grzegorzewski (2003), Esmalzaideh et al. (2013) are few researchers who have described distance measure for IFN. Xu and Chen (2006) have described some continuous distance measure for IFS and then extend this in generalized IFS. On the other hand, there are few developments on intuitionistic fuzzy optimization. Pavathi et al. (2012, 2012) have described an algorithm for solving intuitionistic fuzzy linear programming problem (IFLPP), Nachtermer et al. (2012) have brought the variation in IFLPP by using generalized IFN. Nagpoo et al. (2012) have proposed division of triangular intuitionistic fuzzy number (TIFN) and also applied it to solve IFLPP with intuitionistic fuzzy variable. So, this is all about linear programming problem in intuitionistic fuzzy environment. However, the combination of distance measure and intuitionistic fuzzy optimization is rare. Also, few literatures are available considering nonlinearity in intuitionistic fuzzy optimization. It is a challenging issue to link between distance measure and intuitionistic fuzzy optimization. Once it is done, then its application in real world is also a difficult task.

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4	Citaliste: the Scientific Journal on Theory and Practice of Librarianship	The City Library of Panevo and Faculty of Philosophy of the University of Novi Sad	2217-5563	NA	Library and Information Science
5	College Libraries	West Bengal College Librarians Association	0972-1975	NA	Library and Information Science
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9	Journal of Indian Library Association	Indian Library Association	2277-5145	2456-513X	Library and Information Science
10	Journal of Library and Information Studies	Department of Library and Information Science, National Taiwan University	1606-7509	NA	Library and Information Science
11	Journal of the Canadian Health Libraries Association	Canadian Health Libraries Association	1708-6892	NA	Library and Information Science
12	Journal of University Librarians Association of Sri Lanka	University Librarians Association of Sri Lanka	NA	2579-2253	Library and Information Science
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16	RBU Journal of Library and Information Science	Department of Library and Information Science, Rabindra Bharati University	0972-2750	NA	Library and Information Science

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From the journal:
New Journal of Chemistry

Mixed solvent exfoliated transition metal oxides nanosheets based flexible solid state supercapacitor devices endowed with high energy density†

Shibankar Dutta,^a Shreyasi Pal^b and Sukamta De^{a*}

[Author affiliations](#)

Abstract

Among different nanostructures, two dimensional nanosheets of transition metal oxides (TMOs) are promising pseudocapacitive materials for constructing thin flexible supercapacitors. High surface area and abundant electrochemical sites in 2D TMO nanosheets make them appropriate for high energy density supercapacitors. Here we report large scale production of TMO nanosheets by exfoliation in ethanol-water mixed solvent instead of using highly toxic organic solvents. After optimization, this method gives high concentration (0.42 mg ml⁻¹, 0.47 mg ml⁻¹ and 0.40 mg ml⁻¹ for MoO₃, MnO₂ and RuO₂ respectively) stable dispersions of TMOs nanosheets. The TMOs nanosheets/SWCNT composite based thin film electrodes in a three electrode system display a specific capacitance as high as 1205.08 F g⁻¹, 1168.69 F g⁻¹ and 1308.45 F g⁻¹ at 5 mV s⁻¹ scan rate for MoO₃/SWCNT, MnO₂/SWCNT, and RuO₂/SWCNT in Na₂SO₄ aqueous electrolyte. In contrast, the symmetric supercapacitors with the same composite thin films using a gel electrolyte exhibit a specific capacitance of 717 F g⁻¹ (MoO₃/SWCNT), 540 F g⁻¹ (MnO₂/SWCNT) and 676 F g⁻¹ (RuO₂/SWCNT) at the same scan rate and high energy density (24.89 W h kg⁻¹ at 1.61 kW kg⁻¹, 18.73 W h kg⁻¹ at 1.21 kW kg⁻¹ and 23.48 W h kg⁻¹ at 1.52 kW kg⁻¹). These solid state symmetric supercapacitors having high energy density their specific capacitance values under different bending

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Quantitative Analysis of Nutrients in the Gum Exudates of *Acacia nilotica*

Rukshana Irani¹, Kazi Layla Khaled²

¹Assistant Professor, Department of Food & Nutrition, Raidighi College, Raidighi, West Bengal, India and Research Scholar, Department of Home Science, University of Calcutta; ²Assistant Professor, Department of Home Science, University of Calcutta, Kolkata- 700027 (West Bengal), India.

ABSTRACT

Acacia nilotica is an evergreen tree found throughout India and it belongs to the *leguminosae* family. The gum of this tree has been used in some parts of the country for its salutary therapeutic benefits. The gum was obtained from *Acacia nilotica* trees of West Bengal, India and was investigated for macronutrients and micro nutrients. The results of the present study showed that some essential minerals like calcium, iron, sodium, potassium, phosphorus were present in significant quantities which were 366.37, 25.41, 11.91, 124.87, 2.96 mg per 100 gram of pulverised gum respectively. The quantity of minerals like chromium, zinc, selenium, copper, magnesium, manganese was 0.67, 10.28, 0.54, 0.65, 22.81, 5.73 mg/kg gum respectively. It was found to be an energy dense gum containing 87.05 per cent of carbohydrate with substantially low fat, protein and vitamin content. The outcome of proximate analysis and high mineral content may account for the wide spectrum of medicinal and pharmaceutical properties of gum of *Acacia nilotica* which has been claimed in the pertinent literature.

Key Words: *Acacia nilotica*, Minerals, Nutrients, Vitamins, Medicinal, Properties

INTRODUCTION

Plants have been a major source of medicines in all cultures since the beginning of human civilisation. In the traditional system, various indigenous plants are used in the diagnosis, prevention and treatment of many ailments. In this modern era, there is a growing demand of plant based medicines, health products, pharmaceuticals, food supplements, cosmetics etc. *Acacia nilotica* is a pioneer species, relatively high in bioactive secondary compounds and can exert a variety of functions [1,2].

Plant Details:

Table 1: Taxonomical classification^{bl}

Kingdom	Plantae
Subkingdom	Tracheobionta
Super division	Spermatophyta
Division	Magnoliophyta
Class	Magnoliopsida
Subclass	Rosidae

Kingdom	Plantae
Order	Fabales
Family	Fabaceae
Subfamily	Mimosoideae
Genus	<i>Acacia</i>
Species	<i>Nilotica</i>

The plant parts of *Acacia nilotica* has been reported to have therapeutic uses arising from its wide spread folkloric and customary uses³. Ethnobotanical studies suggested the usage of *Acacia nilotica* gum for the treatment of skin irritation and soothing of the inflamed membranes of the pharynx, alimentary canal and genito-urinary tracts^{4,5}. The bark or gum of the plant *Acacia nilotica* is used in West Africa to treat cancers and tumours of ear, eye or testicles⁶. The gum of the babul (*Acacia nilotica*) has also been used by the Bhils of Rajasthan to fill the dental cavities and to maintain oral health⁶. The beneficial role *Acacia nilotica* Gum for promoting health of women after parturition has been revealed in a project titled Biomedical Studies and IPR (Intellectual Property Rights) where medicinal plants which were used in the

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Rukshana Irani¹, Kazi Layla Khaled²

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Key Words: *Acacia nilotica*, Minerals, Nutrients, Vitamins, Medicinal, Properties

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Light-weight flexible solid-state supercapacitor based on highly crystalline 2D BiOCl nanoplates/ MWCNT nanocomposites

Shibsonkar Dutta^a, Shreyasi Pal^b, Deboariva Sikder^a, Sukanta De^a

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Abstract

Two dimensional (2D) nanomaterials with high specific surface area and large electro-active sites have been promising candidate for flexible electrochemical energy storage applications. Here, we have adopted a simple, cost-effective hydrothermal approach for the synthesis of scalable amount of 2D bismuth oxychloride (BiOCl) nanoplates. Thin flexible films of BiOCl/MWCNT composites have been prepared with varying the weight percentage. A remarkable electrochemical performance has been obtained for BiOCl/MWCNT flexible solid state symmetric supercapacitor (FSSSC) with PVA/H₂SO₄ gel as solid electrolyte. Among various compositions, 60% BiOCl loaded electrodes (FSSSC₆₀) delivers a highest specific capacitance of 421 F/g at 5 mV/s. Furthermore, FSSSC₆₀ exhibits high energy density of 14.62 Wh/kg at power density 947.5 W/kg compared to

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Atomistic simulations of precipitation hardening mechanisms in Mg-Al alloys

Anitava Moitra

Department of Physics, Raidighi College, Raidighi, (S) 24 Pgs., WB

Abstract. Precipitation hardening of Mg-Al alloys primarily comes from the interaction of basal dislocations with Mg_2Al_3 precipitates. Strengthening of Mg-alloys by precipitation is much less efficient than in other metallic alloys (e.g. Al) and this behaviour has been attributed to geometrical effects, as the Mg_2Al_3 precipitates grow as thin plates/lozenges or long rod shape parallel to the basal plane. In the present study I focus on the dislocation/precipitate interaction in the athermal limit for both edge and screw type basal dislocations, carried out using molecular statics methodology. In particular, the critical resolved shear stress (CRSS) necessary to overcome the precipitates are determined as a function of the precipitate size and compared with predictions of classical continuum models. These results provide valuable information about the precipitate hardening mechanisms and suggested new avenues to improve the mechanical properties of Mg-Al alloys.

1. Introduction

Magnesium alloys have become one of the most promising materials in automotive industries due to its high specific strength (158 kN-m/kg), biodegradability, and abundance [1]. Currently further use of Mg-alloys in structural applications is restricted due to various metallurgical issues including strength, formability, limited ductility at room temperature, corrosion, creep resistance and fatigue fracture [2, 3, 4]. It is well known that the deformation mechanism of hexagonal closed pack (hcp) Mg is fundamentally different from that of their fcc (face centered cubic) counterparts, because of their anisotropy in different slip systems [5, 6]. Strengthening of Mg-alloys are typically done either by solute hardening or precipitate hardening [7, 8]. Within the traditional physical metallurgical

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Author

- Listed:
- Tanmoy Chakraborty (Techno Main Salt Lake)
 - Payel Ghosh (Raidighi College)
 - Satadal Mal (Future Institute of Technology)
 - Utpal Biswas (University of Kalyani)
- Registered:

Abstract

Adoption of renewable energy becomes essential for the sake of energy security, increasing crisis of non renewable energy, climate change etc. Global warming, exhaustion and high cost of fossil fuels dictates the practise of alternative sources of energy such as wind and solar energies. In India also, government is aiming to increase use of renewable energy. Industrial sector, domestic sector like multi-storied building, office, hospital, educational institution are the appropriate places to implement the use of renewable energy. A proper calculation of total energy consumption and subsequently, estimation of required solar energy is the first step towards installation of solar system in any place. A mathematical model has been developed in this paper to calculate energy consumption depending on different types of electronic gadgets. The estimation of total energy consumption helps to manage daily energy demand using smart energy. A case study on higher education institution is used here for better explanation of smart energy management system with proper estimation of energy consumption.

Suggested Citation

Tanmoy Chakraborty & Payel Ghosh & Satadal Mal & Utpal Biswas, 2019, "A modelling applied to active renewable energy for an existing building of higher educational institution," International Journal of System Assurance Engineering and Management, Springer, The Society for Reliability, Engineering Quality and Operations Management (SREQOM), India, and Division of Operation and Maintenance, Lulea University of Technology, Sweden, vol. 10(5), pages 1361-1368, October.

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Identified Hybrid tRNA Structure Genes in Archaeal Genome

Document Type : Research Paper

Authors

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10.29252/ijb.2254

Abstract

Background: In Archaea, previous studies have revealed the presence of multiple intron-containing tRNAs and split tRNAs. The full unexpurgated analysis of archaeal tRNA genes remains a challenging task in the field of bioinformatics, because of the presence of various types of hidden tRNA genes in archaea. Here, we suggested a computational method that searched for widely separated genes encoding tRNA halves to generate suppressive variants of missing tRNAs.

Objectives: The exploration of tRNA genes from a genome with varying hypotheses, among all three domain of life (eukaryotes, bacteria and archaea), has been rapidly identified in different ways in the field of bioinformatics. Like eukaryotic tRNA genes, it has been established that two separated regions of the coding sequence of a tRNA gene are essential and sufficient for promotion of transcription. Our objective is to find out the two essential regions in the genome sequence which comprises two halves of the tRNA genes.

Material and Methods: Considering the existence of split tRNA genes widely separated throughout the genome, we developed our tRNA search algorithm to predict such separated tRNA genes by searching both a conserved terminal 3'- and 3'-motif of tRNA in agreement with the split hypothesis on the basis of cloverleaf prediction and precise in silico determination of bulge-helix-bulge secondary structure at the splice sites.

Results: By a comprehensive search for all kinds of missing tRNA genes, we have constructed hybrid tRNA genes containing one essential region from tDNA (XYZ) and the other from tDNA (ABC), both from same species in the archaea. We have also found, this type of hybrid tRNA genes are identified in the different species of the archaea (XYZ: ASN, ARG and MET; ABC: ASP, SER, ARG and PRO). These hybrid split tRNA share a common structural motif called bulge-helix-bulge (BHB) a more relaxed bulge-helix loop (BHL) at the leader exon boundary and suggested to be evolutionary interrelated.

Conclusions: Analysis of the complete genome sequences of *Methanospirillum sedula* DSM 5348, *Desulfurococcus* *formosus* DSM 16282 and *Halomicrobium* *bovis* DSM 16282 by our algorithm revealed that a number of hybrid tRNAs

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Facets of Developments and their Impact on the Agrarian Economies of the Canning Sub-Division, Sundarbans, West Bengal, India since 2001

Sanat Kumar Purkait

Abstract

Sundarbans is well known to the world for its richest biodiversity within a fragile ecosystem. The area has its international importance for its locational extent and natural role in the developed societies of the modern civilization. The area is inhabited by more than five million people right now, even with the worst impact of natural calamities on their socio-economic activities. The indigenous people of this area are intensively dependent on primitive primary sectors of the economic development. The Study area Canning Sub-division lies at the juncture point in between the developing urban area and the retarded Sundarban. That's why, the area has a nature of dichotomy in respect of economic development. The northern part of the region is going to opt the secondary or tertiary sectors when the southern part is completely busy with their primary activities. The present paper tries to find out the impact of the continuous development on its agrarian economy. The multidimensional facets of the regions adopt the different economic sectors with the time. Since the time of Hamilton, the Sundarban is inhabited and cultivated by the deprived and exploited people of far away districts. The economy of whole Sundarban was agrarian and this economy gives support to the existence of the developed society.

Keywords: Sundarbans, Agriculture, Development, Economy

INTRODUCTION

The Sundarban Deltaic region has an important role to the developmental economy for its large scale intensive agricultural activities. The geographical location and all other favorable components for the growth and development of the agrarian economy of the study area are the triggering factors to develop the agricultural activities in this remote part of the then Sundarban. The study area includes both the developing census town area and the transitional zone of Sundarban Tiger Reserve Forests. Therefore, there is a gradual developmental scenario by interrupting the natural mangroves and its components. With the reclamation of the land the people began to stay there, cultivated the arable land since the period of Sir Daniel Hamilton, who is one of the pioneers of the agricultural system in the Sundarbans. But with the advancement of civilization, different types of developments took place in that agrarian society and that creates the dichotomy in the thought of agriculture and industrial economy. In course of time the agricultural system was implemented and partially well placed in the said block but the natural calamities like cyclones, floods, saline water intrusion in the agricultural fields and lack of fresh water irrigation are the major problems of this block. So, the people of the study area are continuously struggle in their daily life to earn money, to cultivate, to exist in the lap of the nature and to cope up with the man eater of this land of eighteen tides.

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সুন্দরবনের অর্থনীতি ও উন্নয়নের রূপরেখা : আর্থসামাজিক
 প্রেক্ষাপটে ক্যানিং মহকুমার একটি ভৌগোলিক পর্যালোচনা

সনৎ কুমার পুরকায়স্থ

সারসংক্ষেপ : সুন্দরবন বিশ্বের বৃহত্তম মান্যমত অরণ্য তথা নদী-পরিষ্কৃত উপত্যকা। জীববৈচিত্র্যে বৃহৎ এই প্রেক্ষাপটের সচেতন হওয়ার আন্দোলনের ফলে ভারতীয় সুন্দরবনের আয়তন প্রায়শঃ ক্যানিং মহকুমাকে একটি মন্যমতের হিসেবে চূড়ান্ত করা হয়েছে। এই বিস্তৃত অঞ্চলের প্রাচীন ও নবর বৈশিষ্ট্য ও তার উন্নয়নের মাঝে যে উন্নয়নের অর্থনীতি প্রায়ঃ করে হল একটি গুরুত্বপূর্ণ ভূমিকা রাখে। ক্যানিং মহকুমার অর্থনীতি ও আর্থসামাজিক উপত্যকায় সমগ্রতর আয়তন বৃহত্তম ভূমিকা রাখে। ভৌগোলিকভাবে এই অঞ্চল ও তার জীবনমতের একটি পর্যালোচনা করা হয়েছে।

ভূমিকা : সুন্দরবনের প্রাথমিক ব্যবস্থার অধিকাংশ সম্পর্কে O'Malley তার গোল্ডেনিয়ারে বসেছেন ১৮৩৬ সালের মধ্যে সুন্দরবন থেকে রাজস্ব আদায়ের কোন ব্যবস্থা ব্যবস্থাপনা করা হয়নি। ১৮১০ সাল নাগাদ ভারতে ব্রিটিশ প্রশাসনের প্রথম আইনগত রিপোর্ট জন ক্যানিং (১৮৩৮-৪২) এর রাজস্ব ও আবাদ মন্ত্রী পর্যালোচনা করে দেখে বেশি আবাদিকরণের জন্য নির্দিষ্ট মোট ৪০১৬ বর্গমাইল অঞ্চল সুন্দরবনের মধ্যে মাত্র ৭৮৭ বর্গমাইল অঞ্চল ছাড়াই ছিল। ইংরেজদের সুন্দরবন মন্ত্রীর ঘরবাড়ি শুল্ক বিলম্বী বন্যা বা ঘূর্ণিঝড়ের প্রভাবের মধ্যে নিহিত ছিল না, কিন্তু খ্যাতি অধিকারের সুবিধার ও মালিক সাহেব সোভিয়েট ইন্ডাস্ট্রিয়ার একদল কৃষকের প্রবেশের পর হ্রাসিত করার জন্য দিত ও পরে তাদের সঠিকভাবে সেই অধিকারের পায়নামা নতুন কৃষকের দিত। এইভাবে নদী-বন্য অঞ্চলের কোন উন্নয়ন ছিল না। এককমাত্র সুন্দরবনের কৃষি অর্থনীতি কোন দিকই দীর্ঘমেয়াদী ধারাবাহিকতা পায় নি।

সময়ের সাথে সাথে অনেক পরিবর্তন এসেছে; স্বাধীনতার পর নিরন্তর উন্নয়ন বা আর্থসামাজিক প্রতিপত্তিতে কঠিনে মানব জাতির অগ্রগতির পারিপার্শ্বিক সহায়তায় যে প্রচেষ্টা চালানো হয়েছে সেখানে সবকিছুর উল্লেখ উচিত মনে করে কাছে ভালো বুঝিয়ে বুঝিয়ে ও অঞ্চল বা নদীর ক্ষেত্র করে সমগ্রতর অর্থনীতি। ১৯ই ডিসেম্বর, ১৯৪৪ সালে আইনগত ব্যবস্থার অবসানের পর ব্রিটিশের মেম্বার এসেছিলেন রাজস্ব থেকে মুনাফা করতে, তেমনটি আদায় করার ক্ষমতা থেকে বঞ্চিত এখানে হুটু এসেছিলেন

শক্তি হয়ে, মজুর হয়ে, বাণিজ্য হয়ে, আবাদ করে নিজেদের সোটের ক্যানিংপুত্রের উপায় খুঁজে পেতে।

সুন্দরবনে ক্যানিং প্রথম আর্থনিক শহর। একথা সত্যি। ১৮৪৮ সালে ক্যানিং ভারতের অন্যতম বৃহৎ বন্দর শহর হবার যে স্বপ্ন দেখেছিল তা মফস্বল নদীর গভীরতা প্রসারের সঙ্গে সঙ্গে কয়েক দশকের মধ্যে অবসান ঘটে। তবু ১৮৬২ সাল থেকে রেল যোগাযোগ সংগঠিত করার কল্পনা ক্যানিকে একটি স্বপ্নবর্তী অঙ্কন পত্রিত করেছিল।

আজকের ক্যানিং মহকুমা সত্যি সত্যি উন্নয়নের উদ্যোগ হলেও অনেকটাই শিথিলে রয়েছে সুন্দর বন্যারী ও যোগাযোগ প্রসারের উন্নয়ন। এখনও পর্যন্ত ৭৪% এর বেশি মানুষ এই স্থানের সুবিধার নিরর্থক। কিছু মানুষ জলাশয়ে সাপ, কুমড়ি ও বাঘের আক্রমণ উপেক্ষা করে মনুষ্য-বন্যারী, মাছ বা কার্গি সংগ্রহ করেন, আবার বেশ কিছু মানুষ সম্রতের সাথে সাথে আক্রমণের ভারতের পরিবর্তী শক্তি হয়ে ভারতের বিভিন্ন প্রান্তে পড়ে আসেন। ক্যানিং-১ ও ২ শহর ও পরগণারী নামে রেল ও সড়ক যোগাযোগ কৃষির পাশাপাশি অন্য অনেককর্ম কাজে নিয়োজিত হয়ে আজ রাসে বেশি আর করতে পারেনে নিজেদের সারাব্যয়ের অধিকার একটি নিশ্চিত ও নিশ্চিত উন্নয়ন খুঁজে পেয়েছেন। মাংসা বা যোগ্য সেতু নির্মাণের পরে সেই স্বপ্নবর্তী বাসন্তী রেলের জন্য উত্তর হলেও সঠিক বিধান ব্যবস্থা ও দুর্ভাগ্যের কারণে ধীরে ধীরে আশানুরূপ ফল পাননি। বর্তমান প্রবন্ধের মধ্য দিয়ে আমরা উপস্থাপন করতে পারি যে উন্নয়নের ধারাবাহিক কল্পনাধারার কারণে স্বাধীন মনুষ্যের মতামত না নেওয়ার কিংবা সেই উন্নয়নক্ষেত্র স্বাধীন

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8	Ebang Mushayera (print only)	Ebang Mushayera	0976-0307	NA	from January - 2020 to Present	View



Introduction of Digital Education can make the Sundarbans a part of the Digital India- A Geographical Appraisal

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ABSTRACT

Sundarbans is one of the most familiar part of the country located at the southern part of the vast deltaic tract of the Ganga in West Bengal which is full of rich biodiversity with the largest mangrove tidal forest. The forest was mainly the abode of the man-eater, but most of the area is occupied by the human civilization right now. It is well known for its natural beauty. Presently the Sundarbans is inhabited by more than five million people. Sundarban has an interesting lifestyle with its primitive agrarian economy and collective economic practices. The indigenous people of this area are continuously trying to do their best for the upgradation of their lifestyle and future generation. But due to lack of sufficient physical infrastructure and mismanagement in the development of communication and telecom development in the study area. The situation of long-time lockdown in this pandemic situation due to sudden outbreak of Covid-19, the world faced a terrific problematic situation in the regular daily lifestyle of the human being. But the education is an ongoing process. After a certain interval the Govt decided to continue the education system through the online platform. The covid-19 did not affected so much in Sundarban but the universal decision is also applicable for the entire country. That's why, Sundarbans is compelled to adopt the online education and it is all of a sudden introduction in the backward Sundarbans. The present paper tries to identify the exact impact of online education in the under developed part of rural Bengal including Sundarbans. To get a thoughtful output throughout the analytical study of the ground reality, a pilot survey is done among more than 250 samples (students, teachers, guardians and academicians of different sections of this area). Now it is to be highlighted whether the introduction of digital education can make the Sundarbans a part of the Digital India or not.

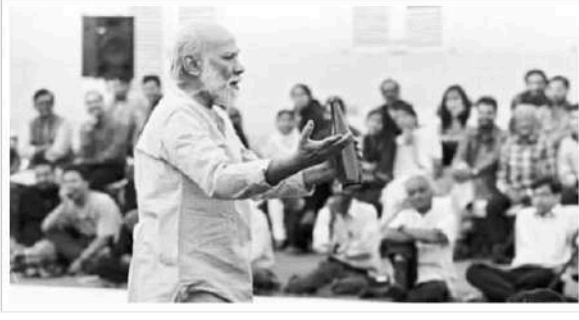
Key Words: Digital Education, Sundarban, Communication, Development, Pandemic.

I. INTRODUCTION

Sudden outbreak of Covid-19 has changed the whole world. The developed country lost their motion and the under developed nations are facing economic crisis with several types of new circulars as published by the Govt. time to time. The economy is locked down but the education cannot be stopped for a long time. So, the alternative mode of teaching learning changed the previous education systems. Now, Pathsala became e-Pathsala by the pandemic situation of Covid-19 outbreak throughout the world. Before the introduction new technology, online communication was not possible. Once, the student cum disciple went and stay at the house or ashrama of their guru to learn their lessons of life. From that time, the teaching learning processes were executed through physical interaction between teacher and learners. Brahmacharya of Chanurashrama was the period of taking lessons from their Guru. Then, the institutional framework like pathsala, school, college and university were introduced in the educational system. The great poet Rabindranath Tagore has started to teach his students with nature. In the latest past, the world has adopted the computer literacy including the Information and Communication Technology (ICT) in the teaching learning processes and the teachers used to use the digital platform rarely. But, the pandemic situation after the outbreak of COVID-19, everything got changes.

The world faced three to five phases lock down and after certain period of lock down, the govt decided to continue the ongoing processes of education through digital platform. Both the teachers and students started to be adopted with the system. But the ground reality of rural India is quite different from the urban one. The rural Bengal is still in the dark from the light of Digital India. Some of the private institutes used online education before the lock down, they are habituated. But most of the rural institutes have no minimum physical infrastructure. There the concept of online education is far away from the implementation. It has the good output with some of the limitations. Sundarbans being the part of primary sectors of economy, most of the part of the study area are in the dark of the telecom and communication development. With these barriers, the Sundarbans have adopted online education and are trying to be habituated with the systems.

বাদল সরকারের খার্ড থিয়েটার



শুভঙ্কর বৈশ্য চৌধুরী (November 26, 2022)

বা

দল সরকারের তৃতীয় থিয়েটারের গড়ে ওঠা ছিল আর পাঁচটা মঞ্চনাটকের চাইতে একেবারে আলাদা— এই কথা বাঙালি হওয়ার সুবাদে শেষ ৫০ বছর ধরে আমরা কম শুনিনি। কিন্তু তারপর, সেই 'আলাদা'টা কেন? সে-বিষয়ে আমাদের কোন গৌরব কবলে দিবে?

সংখ্যা

- সংখ্যা ১৫৬: ফাল্গুন ১৪৩০/ ১৬ ফেব্রুয়ারি ২০২৪
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34 2	Translation Today	National Transmission Mission	0972-8740	0972-8090	View
34 3	Transnational Literature	Humanities Research Centre, Flinders University	1836-4845	NA	Discontinued from Oct. 2020
34 4	Tribal Studies: A Journal of Coats (print only)	Council of Analytical Tribal Studies	2321-3396	NA	View
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34 7	Tulsi Prajna	Jain Vishva Bharati Institute	0974-8857	NA	View
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34 9	Unmilan (print only)	Darshan Pratishthan	0974-0053	NA	View
35 0	Urdu Book Review (print only)	Mohammad Arif Iqbal	0971-9288	NA	View

35 1	Ushati (print only)	Rashtriya Sanskrit Sansthan	2277-680X	NA	View
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আরল সাগর : নিয়ন্ত্রণবাদ বনাম নবনিয়ন্ত্রণবাদ

সনৎকুমার পুরকহিত*

সারাংশ : আরল সাগর ও মহাদেশীয় জলসমৃদ্ধির মধ্য 'উপেক্ষিত সমুদ্র'। আর ২০০০ বর্ষ বিহীন একেবারে পৃথিবীর চতুর্থ বৃহৎ প্রায় ১১০০ হেক্টরীয় ঝাঁপ ছিল; মধ্য এশিয়ার ভৌগোলিক দিবস অতুল সাগর। ২০১০ সালের এপ্রিলে উজবেকিস্তানের রাষ্ট্রপতির নিয়ে আরল সাগর পরিবর্তনের পর রাষ্ট্রপুঞ্জের মতসিদ্ধি খন-কি-মুদ্রা বলেছিলেন, "It is clearly one of the worst environmental disasters of the world. It was a vivid testament to what [...] happens [...] when we waste our common natural resources, when we neglect our environment, when we mismanage our civilization." এই আবেদনের উদ্দেশ্য হল আরল সাগরের ভৌগোলিক বৈশিষ্ট্য, পরিবেশগত ক্ষয়ের বিশ্লেষণ ও মানুষের দায়বদ্ধতার একটি স্মারক বিজ্ঞানীর দৃষ্টিতে উপস্থাপন করা।

ভূমিকা :

বিগত শতাব্দী থেকেই জলবায়ু পরিবর্তনের কারণে সভ্যতার সংকট নাকি মানব সভ্যতার অনিবার্য বিকাশের কারণে জলবায়ু পরিবর্তন—এই প্রশ্ন বিতর্কিত করা শুরু হয়ে গিয়েছে। জলবায়ু পরিবর্তন ও জলবায়ু পরিবর্তনের ফলে মানবজীবনে তার প্রভাব নিয়ে আমাদের ভৌগোলিক ও পরিবেশবিদদের বর্তমান দিনে এক চর্চিতচর্চিত আলোচনা। কিন্তু সন্মতন সাথে সাথে আমরা একেবারে পর্যালোচনা করে দেখি না, যে প্রাকৃতিক উপাদানের পরিবর্তনের কারণে মানবজীবনে যেমন প্রভাব পড়ে, তেমন মানবীয় কার্যক্রমে প্রাকৃতিক বৈশিষ্ট্যের পরিবর্তন ঘটে থাকে, চলেছেও। আবার জলবায়ু চক্র বস্তু বাহ্যে থেকে আমরা জেনেছি যাচের গ্রাম আছে, ঠিক তেমনি জাবে আমরা অনুস্থাপন করলে সেখানে পান, গাছ সেন সমগ্র এই বিশ্ব প্রণালীর অন্যতম কনোতে যে সকল প্রাকৃতিক উপাদান পড়ে রয়েছে তাদের এক অংশিক প্রতিনিধি। তাহলে আমাদের উচিত মানুষ প্রকৃতি সম্পর্ক বজায় রেখে প্রকৃতিকে মানবসভ্যতার গ্রাম থেকে রক্ষা করে তার মতো করে তাকে চলতে দেওয়া। কারণ বর্তমানে বিজ্ঞানীরা একটিকে নিশ্চয় নিয়মিত বিশ্ব উন্নয়নের কারণগুলি মধ্যে অন্যতম হল কার্বন-ডাই-অক্সাইডের পরিমাণ বৃদ্ধি; কিন্তু তারা বিশ্ব উন্নয়ন সংক্রান্ত সেমিনার করার সময় ঠাণ্ডা ঘরে বসতে বিরত থাকতে পারেন না। বিশ্বের বৃহত্তম জলবায়ু চক্রগুলির মধ্যে মধ্য এশিয়ার কারণে এন-উজবেকিস্তানে অবস্থিত আরল সাগর চতুর্থ



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Antioxidant Activity and Anti-Nutritional Factors in *Acacia Nilotica* Gum

Kazi Layla Khaled¹ and Rukshana Irani²

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Abstract: The rapidly growing civilization and economy need the judicious usage of floral and faunal heritage. *Acacia nilotica* (Family: Fabaceae) is a beneficial plant species and each part of it exhibits numerous biological and pharmacological effects. The gum exudates of *Acacia nilotica* trees are underutilized plant products that can be explored for their potential as a therapeutic and curative agent. Its nutritional composition, interaction with anti-nutritional factors and antioxidants can determine its utility as a food. The present investigation was aimed to estimate the anti-nutritional factors and antioxidant activity of *Acacia nilotica* gum. It also focused on establishing a relationship of the obtained data with the ethnomedicinal and pharmacological properties claimed in the literature. The analysis was carried out using standard methods and protocol involving spectrophotometric and gravimetric principles. The anti-nutritional components like tannin, trypsin inhibitor, phytate, oxalate, total saponin, steroidal saponins, alkaloid content of *Acacia nilotica* gum was found to be 0.2369±0.0354 g tannic acid equivalent/100 g, 0.0108±0.0037 TIU/mg, 156.333±9.4516 mg/100 g, 132.5±28.152mg/100 g, 12.7183±6.7788 mg diosgenin equivalent /g, 0.0705±0.01 mg diosgenin equivalent /g, 0.1339±0.0577 g/100 g respectively. The amounts of total phenols and flavonoids was determined to be 8.0033±2.7211 mg of gallic acid equivalent/g sample, 0.0458±0.0186 mg quercetin equivalent /g sample respectively with a significant DPPH Scavenging activity. The results indicate that the quantity of anti-nutritional factors in gum is within the range of the contents of anti-nutritional factors found in commonly consumed foods. The substantial presence of phenol, flavonoids and DPPH activity in the gum indicates the presence of high antioxidant properties. The presence of anti-nutritional factors and antioxidants in favourable levels can impart diverse physiological responses. The present study concluded that *Acacia nilotica* gum can be used as a nutritious food commodity with a plethora of recuperative activities.

Keywords: Antinutrients, Antioxidants, Gum, *Acacia nilotica*, nutrients.

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Int J Life Sci Pharma Res, Volume 11, No 6 (NOVEMBER) 2021, pp 142-51

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Recent developments in C-C bond formation catalyzed by solid supported palladium: a greener perspective

Debasree Saha and Chhanda Mukhopadhyay

From the journal *Physical Sciences Reviews*
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Abstract

The world today is struggling to achieve sustainable means for synthetic processes. Standing at this juncture, we need to develop and implement greener and reusable approaches towards organic synthesis. Transition metals especially palladium is a wonder element which has the ability to catalyze a range of useful organic syntheses. However, the expensive nature of palladium has urged synthetic chemists to search for protocols where a single palladium source may be used repeatedly in successive reactions, thus making the overall process cost effective. Palladium when anchored to solid supports leads to catalytic systems which can be easily separated from the organic phase post reaction and can be reused in successive cycles. Not only does this make the process economically viable but also ensures that no metal contaminates the purity of the final organic product. In this review we will highlight the recent developments in C-C bond formation (which is by far the most fundamental mode of bond making in organic synthesis) via the use of solid supported palladium catalytic systems. We will use this opportunity to illustrate the synthetic processes from a greener

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Abstract

Cellulosic ethanol has been the most promising second-generation biofuel in terms of raw material availability. The production process mandates efficient removal of lignin followed by a three-step sequential enzymatic conversion of cellulose to glucose, Cellobiase [E.C. 3.2.1.21], a β -glucosidase (BGL), obtained preferably from filamentous fungi catalyzes the final rate limiting step of this reaction,



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Edible Mushroom: A Potent Producer of Industrial Enzymes

Shakuntala Choral¹
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Abstract: Edible mushrooms are highly appreciated in every part of the world because of their nutritive value, ease of production as well as non-toxicity. In recent years we are getting more inquisitive about these culinary wonders as they are showcasing a wide array of secondary metabolites with numerous potential applications. These nutritionally rich food supplements are capable of producing a number of enzymes having prospects in industries like brewery, dairy, food & feed processing, textile, paper, leather, agrochemical, photography and pharmaceuticals etc. This article reviews quite a few of the reported enzymes available from wild and cultured edible mushrooms for their production media, production rates and functional attributes. Recent reports of parameters affecting their production are noted as well. The article has also discussed application prospects and current omics approaches exploring intricate roles of mushroom enzymes in development and metabolic pathways of these edible fruiting bodies. Cumulative treatment makes this article one uniquely up-to-date and comprehensive narrative of edible mushroom enzymes.

Index Terms: cellulytic edible mushroom, industrial enzymes, ligninolytic, peroxidase

I. INTRODUCTION

Edible mushrooms are the delicious fruiting bodies of filamentous fungi from Ascomycota and Basidiomycota phylum. Mushrooms are good source of carbohydrates, proteins, fats, vitamins, minerals, enzymes and other bioactive compounds with considerable amount of water and fiber but low in calories (Tripathy & Gupta, 2016). Nutrient content of any edible mushroom depends on the substrate on which they grow, environmental condition and their age. Carbohydrates in mushrooms are mainly polysaccharides in form of glycogen and other indigestible forms like dietary fiber, cellulose, chitin, mannin and glucans. Hesse and Hesse glucans with β (1 → 3),

glucans, arginine, glycine, histidine, glutamic acid, aspartic acid, proline and serine (Cruz & Pintado, 2016). As mushroom proteins are rich in lysine, they can better supplement cereal-based diets which are poor in lysine (Ghosh, 2020).

Fat content of edible mushroom is fortunately low and 70% of fatty acids are unsaturated in nature. Mushrooms are very rich in minerals like copper, iron, potassium, magnesium, calcium, phosphorous, zinc and sodium (Ghosh, 2020). In addition to them, some mushrooms also possess iodine, fluorine, mercury, manganese and sulphur etc. These edible varieties possess abundant group B vitamins like thiamine, riboflavin, pyridoxine, pantothenic acid, nicotinic acid, nicotinamide, folic acid and cobalamin (Ho & Tan, 2020; Ghosh, 2020). Other than B vitamins, ergosterols, biotin, phytylcholine acid isoprenols are also present in mushrooms. Characteristic flavor and aroma of mushroom dishes comes from a wide range of octanoid carbenate alcohols and carbonyl compounds like 1-octanol, 3-octanol, 3-octanone, 1-capryl-3-ol, 1-octenyl-3-ol, 2-octenyl-3-ol and 1-carynyl-3-ol etc. (Banas & Litwiska, 2006). Nitrogenous compounds, minerals and oxidation of unsaturated fatty acids also contribute to aroma generation.

These edible creatures also possess a large group of enzymes including oxidases, lipases, cellulases, lignin degrading enzymes, invertase and proteolytic enzymes (Ghosal & Khosla, 2009; Shreef & Temraz, 2010; Manuwa & Levin, 2011; Pandey & Maheshwari, 2012; Rodrigues de Luz & Kowara, 2012; Liu & Kang, 2013; Adebayo & Martinez-Carrea, 2015; Nadim & Shazek, 2015; Majumder & Khosla, 2016; Karan & Parvanehban, 2016; Herrosilla & Diez, 2018; Mirmiri & Nurhamidah, 2018; Gomathi & Ramakrishni, 2019; Benmad & Jannak, 2019; Ding & Li, 2019; Hock & Shing, 2020; Karitapattawan & Betchawatana, 2021).

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69	Journal of Enterprising Culture	World Scientific Publishing	0218-4858	1793-6330	from June - 2019 to Present	View
88	Journal of Global Resources	Institute of Sustainable Development, Environmental and Scientific Research	2395-3160	2455-2445	from June - 2019 to January - 2020	Discontinued from Jan. 2020
166	Journal of Scientific Research	Faculty of Sciences, Rajshahi University	2070-0237	2070-0245	from June - 2019 to Present	View
167	Journal of Scientific Research	Institute of Science, Banaras Hindu University	0447-9483	NA	from September - 2019 to April - 2022	Discontinued from April 2022
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E-ISSN 2250-0480

Antioxidant Activity and Anti-Nutritional Factors in Acacia Nilotica Gum

Life Sciences-Allied Sciences

Kazi Layla Khaled

Associate Professor, Department of Home Science, University of Calcutta, Kolkata-700027, West Bengal, India

Rukshana Irani

Assistant Professor, Department of Food & Nutrition, Raidighi College (Affiliated under University of Calcutta), Raidighi, West Bengal, India & PhD Scholar, Department of Home Science, University of Calcutta

DOI: <https://doi.org/10.22376/ijlpr.2021.11.6.1.42-51>

Keywords: Antinutrients, Antioxidants, Gum, Acacia nilotica, nutrients.

ABSTRACT

The rapidly growing civilization and economy need the judicious usage of floral and faunal heritage. *Acacia nilotica* (Family: Fabaceae) is a beneficial plant and each part of it exhibits numerous biological and pharmacological

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20	Journal of Advanced Scientific Research	Sciencage	NA	0976-9596	from June - 2019 to January - 2022	Discontinued from Jan. 2022
90	Journal of Indian Intellectual Traditions (print only)	Centre of Advanced Study in Sanskrit, Savitribai Phule Pune University	2249-7129	NA	from June - 2019 to Present	View

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Home / Pesquisa / The Impact of Nutrients on Coronavirus (Covid-19): A Review

The Impact of Nutrients on Coronavirus (Covid-19): A Review

Dhara, J.; Saha, M.; Das, D.; Chakraborty, R.

Research Journal of Pharmacy and Technology; 15(9):4270-4276, 2022.

Artigo em Inglês | EMBASE | ID: covidwho-2207038

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ABSTRACT

A properly balanced diet can improve the immunity system and also prevent various diseases including COVID-19 which is caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV2). This review mainly describes dietary guidelines or approaches to build up our immunity as well as better health and protect from corona virus. As we all know one line "Health is Wealth". So this wealth can be established or secure by optimal diet. Basic food components that are carbohydrates, protein, fat, vitamin and minerals have various important functions to fight against diseases. Most of the documents encourage to consumption of fruits, green vegetables, proteins, whole grains and fluids. Vitamins such as C, E, D, A most important to boost up our immunity. Vitamin C and E also known as natural antioxidants because they protect our body from infection



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Ano de publicação: 2022

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Journal of Cellular and Molecular Medicine

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Betelvine (*Piper betle* L.): A comprehensive insight into its ethnopharmacology, phytochemistry, and pharmacological, biomedical and therapeutic attributes

Protha Biswas, Utpal Anand, Suchismita Chatterjee Saha, Nishi Kant, Tulika Mishra, Harison Masih, Ananya Bar, Devendra Kumar Pandey, Niraj Kumar Jha, Madhumita Majumder ... See all authors

First published: 02 May 2022 | <https://doi.org/10.1111/jcmm.17323> | Citations: 18

Funding information

This research was funded by projects APOGEO (Cooperation Program INTERREG-MAC 2014–2020, with European Funds for Regional Development-FEDER, 'Agencia Canaria de Investigación, Innovación y Sociedad de la Información (ACIISI) del Gobierno de Canarias' (project ProID2020010134), and CajaCanarias (project 2019SP43).

Protha Biswas and Utpal Anand contributed equally to this study and are the first authors.

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Piper betle L. (synonym: *Piper betel* Blanco), or betel vine, an economically and medicinally important cash crop, belongs to the family Piperaceae, often known as the green gold. The plant can be found all over the world and is cultivated primarily in South East Asian countries for its beautiful glossy heart-shaped leaves, which are chewed or consumed as betelquid and widely used in Chinese and Indian folk medicine, as carminative, stimulant, astringent, against parasitic worms, conjunctivitis, rheumatism, wound, etc.,



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South African Journal of Botany

Volume 146, May 2022, Pages 127-145



Promising botanical-derived monoamine oxidase(MAO) inhibitors: pharmacological aspects and structure-activity studies

Tuyelee Das¹*, Suchismita Chatterjee Saha²*, Kumari Sunita³, Madhumita Majumder⁴, Mimosa Ghosal¹, Abhijit Bhagwan Mane⁵, Dorairaj Arvind Prasanth⁶, Prasann Kumar⁷, Devendra Kumar Pandey⁸, Abdel Rahman Al-Tawaha⁹, Gaber El-Saber Botiha¹⁰, Mahipal S. Shekhawat¹¹, Arabinda Ghosh¹², Javad Sharifi-Rad¹³, Abhijit Dey¹

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Abstract

Monoamine oxidase (MAO) is capable of catalysing the oxidative deamination of amines and neurotransmitters. MAO plays a pivotal role in maintaining neurotransmitters linked to neurological disorders viz. Alzheimer's disease (AD), Parkinson's disease (PD) etc. Therefore, inhibition of MAO can be implicated to the cure of such diseases. Synthetic MAO inhibitors are known to inhibit MAO activity. However, there are safety issues with synthetic MAO inhibitors and many of their effects are non-selective and irreversible. Contrasting synthetic drugs, plant-derived natural products have been popularized globally owing to their extensive acceptability and applicability, therapeutic potency and

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Romaan Nazir, Soyanti Mandal, Sicon Mitra, Mimosa Ghosal, Neelo Das, Niraj Kumar Jha, Madhumita Majumder, Devendra Kumar Pandey, Abhijit Dey

First published: 31 January 2022 | <https://doi.org/10.1111/ppl.13642> | Citations: 12

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The rice and wheat agricultural system is the primary source of food for billions across the world. However, the productivity and long-term sustainability of rice and wheat are threatened by a large number of abiotic stresses, especially salinity stress. Salinity has a significant impact on plant development and productivity and is one of the leading causes of crop yield losses in agricultural soils worldwide. Over the last few decades, several attempts have been undertaken to enhance salinity stress tolerance, most of which have relied on traditional or molecular breeding approaches. These approaches have so far been insufficient in addressing the issues of abiotic stress. However, due to the availability of genome sequences for cereal crops like rice and wheat and the



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<input type="checkbox"/>	3 South African Journal of Botany	5.1	79% 99/487 Plant Science	9,940	1,961	74
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101	Tripura Theatre Journal	Tripura Theatre	NA	NA	from July - 2020 to Present	View
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Human-Tiger Conflicts: Geo-ecological Challenges of the Sundarbans

Sisir Chatterjee*

Abstract : Since the early days of British East India Company, 1781, immigrating human population and consequential habitat destruction had contributed to the threatening of the ecosystem of wildlife, most particularly tiger in Sundarbans, the only mangrove forest of the world with tiger habitation. Human-tiger conflicts and associated casualties has existed here from the early years of human settlement when the mangroves brimming with wild animals were cut down for the expansion of agricultural opportunities and expansion of human habitation (Mallick, 2018). Today overcrowded human density on the forest fringes results in extremely high biotic pressures such as illicit deforestation, fishing and crab collection. Sundarbans is one of the vulnerable physiographic, climatological, ecological and cultural region of the world where a part of islands and their ecological and cultural resources disappear every year due to tidal nature of associated rivers, climatic hazards like tropical cyclones and related floods, decimated forest through bridled extractive practices (Sen, 2019). Village people living in the enclosure of Sundarbans Tiger Reserve are now aware of such issues but they have no other alternative in their unskilled, uneducated economic life except the collection and utilization of forest resources. There are various academic as well as administrative study and research to trace the nature of human-tiger conflicts and its causes in Sundarbans but the traditional knowledge base understanding of the experienced local people is an integral part of this study because their perceptual realization and associated practices are the real guidelines for a sustainable solution in Sundarbans geo-ecological challenges. This paper will analyze the nature and pattern of human-tiger conflicts as both the species suffer terribly due to the alarming susceptibility in present Sundarbans.

Key Words: Mangrove ecosystem, man-tiger conflicts, cyclones, geo-ecological changes, environmental sustainability

Introduction

The Sundarbans, considered as to be a world heritage site (UNESCO-1987) accounts for the largest mangrove ecosystem in India (<https://whc.unesco.org/>list>). Morph dynamics of fragile mangrove ecosystem is very unique in the perspective of human society and marine as well as coastal environment. It is also unique that Sundarbans ecosystem is the habitat of famous as well as endangered Royal Bengal Tiger (*Panthera tigris tigris*) which stands at the apex of the terrestrial

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Nelumbo (The Bulletin of the Botanical Survey of India)	Botanical Survey of India	0976-5069	UGC CARE
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Abstract

Sundarbans region has its own unique physiographical, ecological, economical and socio-cultural individuality. As a home of nearly nine million people the entire Sundarbans area has emerged as one of the poorest and malnourished region of the South-east Asia. Man-tiger conflict or tiger attacks in riverside settlements around the Sundarbans Reserve Forest in West Bengal, India are a continuous matter of concern. The principal objective of this research is to identify the reasons behind the increasing human-tiger conflict in Indian Sundarbans. Landsat-8 satellite image (path = 138, row = 45, 30 m spatial resolution

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Abstract

Molecular dynamics simulations are used to investigate the thermal stability of Al-Ni core-shell nanoparticles (NP) with different core sizes and shell thicknesses. Our study reveals that a distinct two-stage melting occurs during the continuous heating of bimetallic NPs. Unlike previous studies for single NP, where melting start from the outer surface and gradually encompass the core of the material, our result clearly indicates the interface dominated melting phenomena. It is evidenced in our analysis through microstructure, coordination number, and Lindemann index, that this interface dominated phenomena does not alter with decreased shell thickness. We estimate that the interfacial misfit, and bond energy orders (Ni-Al, Al-Al, and Al-Al) are the sources of such premelting phenomena to be nucleated at the interface. This study provides a fundamental perspective on the melting behavior of bimetallic nanoparticles and can be extended towards multimetallic NPs at the atomic level.

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Abstract

Strengthening of Mg-alloys by precipitation is much less efficient than in other metallic alloys (e.g. Al) as the Mg₁₇Al₁₂ precipitates grow as thin plate or lozenge shaped or long rod shape parallel to the basal plane. Recently atomistic simulations reveal that the dislocation-precipitate interaction is very weak to claim for the precipitation hardening mechanism. However, the interaction of twin-boundary with the Mg₁₇Al₁₂ precipitate remains unexplored using atomistic simulation. In the present study we focus on the twin-boundary/precipitate interaction at different temperatures, precipitate sizes and varied applied loads, carried out using classical molecular dynamics methodology. In particular, the activation energies necessary to overcome various precipitates are determined as a function of the temperature, precipitate size and applied load. The velocity profile of the twin is calibrated with these different external conditions. An attractive nature of interaction has been observed while the twin-boundary comes closer to the precipitate and a network of dislocations are observed when the twin-boundary bypass the precipitate as manifested through

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Approaches for in vitro propagation and production of plumbagin in *Plumbago* spp.

Devendra Kumar Pandey¹ · Kajal Katoch¹ · Tuyelee Das² · Madhumita Majumder³ · Kuldeep Dhama⁴ · Abhijit Bhagwan Mane⁵ · Abilash Valsala Gopalakrishnan⁶ · Abhijit Dey²

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Abstract

The genus *Plumbago* (family *Plumbaginaceae*), commonly known as leadwort, is a sub-tropical shrub that produces secondary metabolite plumbagin, which is employed by pharmaceutical companies and in clinical research. Plumbagin is a potent pharmaceutical because of its anti-microbial, anti-malarial, antifungal, anti-inflammatory, anti-carcinogenic, anti-fertility, anti-plasmodium, antioxidant, anti-diabetic, and other effects. This review documents the biotechnological innovations used to produce plumbagin. The use of modern biotechnological techniques can lead to a variety of benefits, including better yield, increased extraction efficiency, mass production of plantlets, genetic stability, increased biomass, and more. Large-scale in vitro propagation is necessary to minimize over-exploitation of the natural population and allow the use of various biotechnological techniques to improve the plant species and secondary metabolite production. During in vitro culture, optimum conditions are requisites for explant inoculation and plant regeneration. In this review, we provide information on various aspects of plumbagin, depicting its structure, biosynthesis, and biotechnological aspects (both conventional and advanced) along with the future prospects.

Key Points

- Critical assessment on in vitro biotechnology in *Plumbago* species
- In vitro propagation of *Plumbago* and elicitation of plumbagin
- Biosynthesis and sustainable production of plumbagin

Keywords Plumbagin · *Plumbago* · Micropropagation · Elicitation · In vitro propagation

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