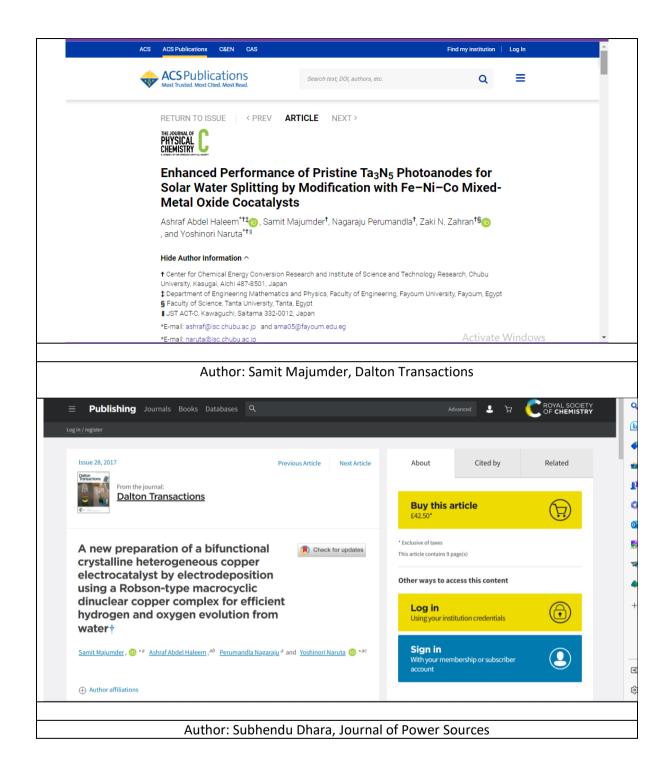
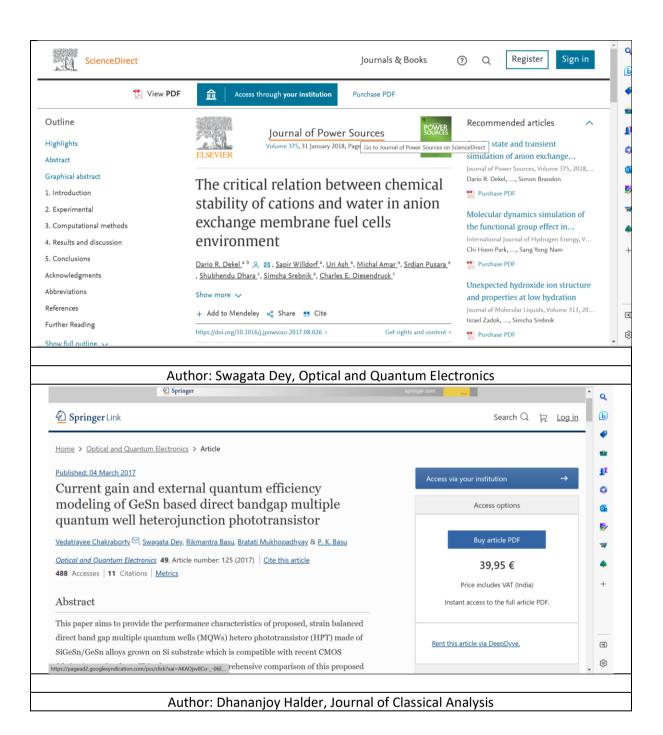
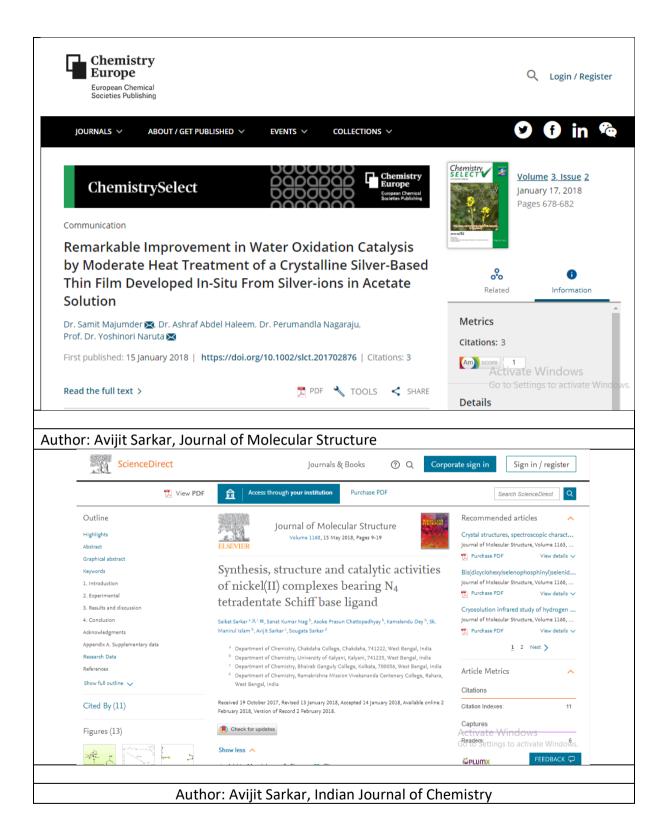
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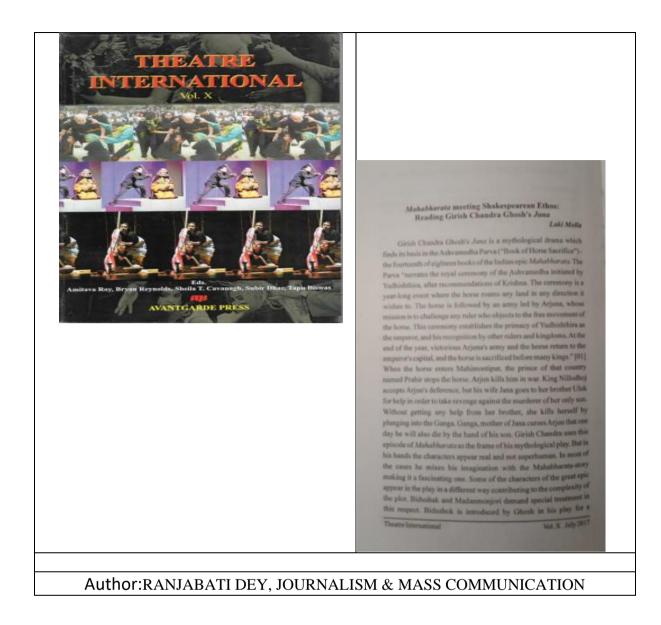




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A tricarboxylate supported binuclear metal organic hybrids of Cu(II), $[Cu_2(\mu-cit)(phen)_d]$ -9H ₂ O (1) has been synthesized using well known pyridyl based N,N' linker, 1,10-phenanthroline and has been structurally characterized. The use of the flexible hydroxyl	All		
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phenanthrolineligands and citrate (clt ⁴⁺) serves the role of a bridging ligand. Furthermore, the carboxylate molety/hydroxyl oxygen sites of citrate and the aromatic chelating ligands promote the supramolecular recognition through hydrogen bonding and other non- covalent interactions (like no interaction) and thereby results in binder dimensional architecture Along with this there are water	Browse • <u>By Issue</u> • <u>By Author</u>		
covalent interactions (like n-n interaction) and thereby results in higher dimensional architecture. Along with this, there are water molecules as water of crystallization. The oxygen atoms of the carboxylate molety involve in both inter and intra-molecular hydrogen bonding with the hydrogen atoms of the water molecules resulting in a hydrogen bonded helical supramolecular solic. Theoretical study	By Author By Title Other Journals		
is performed to analyze the structure and the role of non-covalent interactions through DFT based calculations and Hirshfeld surface analysis.			
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Contribution of Muslim Poets and the Court of Arakan in Medieval Bengal

Pivali Chakraborty

Known Lectures Mass Communication and Wideography, Widyesegar University West Letter .

Ranjabati Dey

Research Scholar, Jadavper University, West Bengal, India

Abstract : Because of her geographical prominity to the southeastern parts of Bengel, scale developed political and cultural ties with the Bangalis. The political situation depended on the fluctuation of powers of the two neighbours. Taking advantage of the weakness of ions Barbak Stah of Bengal, Bosswyru occupied Chattagram district in 1459. For a centre of remained in the hands of the Arakanese until the Mughals expelled them in 1666. The mpec of Bengali culture on the life of the peoples of Arakan had profound effects on the subseque course of Arakanese history. From the middle of the fifteenth century the culture of Benga began to percolate into Arakan not only through the officials but also through merchans and adventurers who came across the sea or hill tracts to seek their fortunes. A number of Muslem poets, under the petronage of Arakan court composed poems and ballads which are peerless in nature and diction. Their contribution is an integral part of Bengali herame. This paper eyes upon a chronological study of their contributions.

Key Words : Muslim Conquest, Rakhainepray, Court of Arakan, Medieval Bengal

Introduction

Between the 12th and 16th centuries Muslim conquest of the Indian subcontinent cast a lasting input upon the cultural and literary heritage of the land. The wave of conquest had hit Bengal when the provide came under the Delhi Sullanate in around 1204. By the 14th century the Sultanate of Bengal beau sovereign and emerged as a self determining regional power. The government adopted Bengal set principal official language though Persian and Arabian etc. remained as diplomatic languages alongith

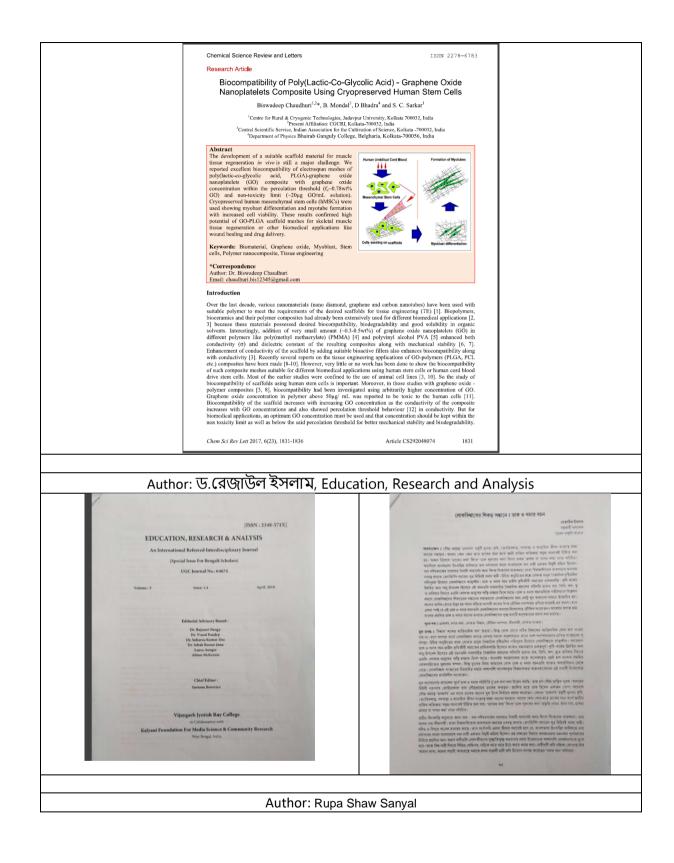
The Bengali rulers extended their kingdom over the parts of Arakan and Assam. The Sur dynam overtook the region in the 16th century for a short time. During the sultanate period, Hindu educate and aristocrat people settled into the land in large number. They occupied prominent positions in lexit administration. Various historians and scholars have recorded that long before the establishment of Muslim kingdom in the frontier region, the settlement of Bengali speaking community began in the area Since then, the influence grew steadily and was consolidated effusively by the 17th century.

The ancient name of Arakan is Rakhainepray. The word Rakhaine is probably have derived from the bankerit Raksha and the Pali Yakkha, signifying a monster or a demon. Before the dispersion of Buddhist most Arakanese were pagan or 'sanatan' nature worshippers (Hindus in modern sense).

Influence of Islam began to extend from the eastern bank of Padma (Meghna) to Arakan since Twells entury mostly by the Bengali invaders. From the writings of Verthema, Caesar Frederick, Ralph Fach and also fortuguese it appears that in the sea ports of Bengal coast there was important community for the transmission of the sea ports of Bengal coast there was important community gone to Arakan considerably before Chaitagram and had 1338. The Muslims immigrations to Chaitagram and Arakan increased after the Pathan occupations of Chaitagram in the middle of 14th century.

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Indigenous Knowledge of Ethnic Community on Usage of Kripa (Lumnitzera racemosa) and its preliminary screening

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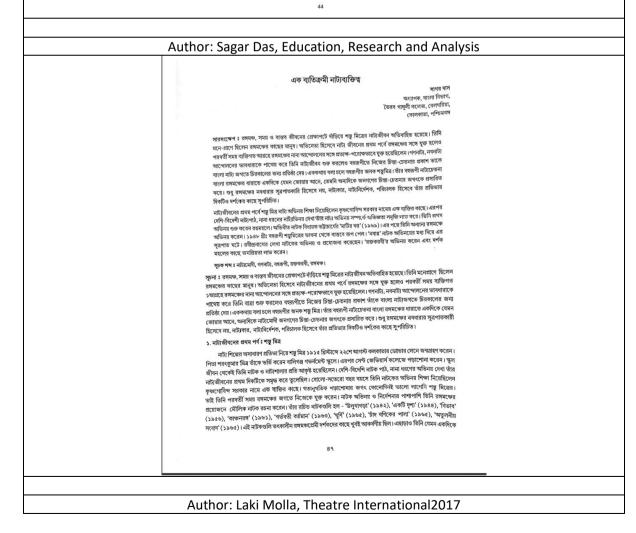
Conseptonting autori repeative/segment.com Abstrat Kripa (*Lumnitzera racemoso*) is an evergreen brached tree of medicinal value found in the mangrove areas of the Indian subcontinent and traditionally used by local rural communities to treat various aliments and their symptoms. Kripa was identified as one of the many mangrove species that occur in the Sunderbans delta that are being used for its therapeutic properties. The traditional usage of Kripa leaves and bark were learnt through interaction with the locals. The plant parts were collected from the Medicinal Plant Conservation Area (MPCA) in Bonnie Camp and a preliminary phytochemical analysis was conducted in meth neile extraction by following standard methodology. The locals reported that the most common use of the plant were to treat itches, bits (inflammation) and occasionally even symptoms of diabetes. The preliminary phytochemical screening reveals that the leaves of Kripa contains glycosides, alkaloids, phenols, tannins, flavonoids, etc. Keywords: Ethnic community, Kripa, medicinal value, phytochemical.

Introduction

Due to the important role and possibilities for treatment of human diseases, research on medicinal plants has been the focus of grate fascination during the last few decades (Pan rasonation during the last rew decades (van et al., 2010 and Boots et al., 2008). Medicinal plants or herbs are the essence of India's traditional medicine practice (Adhikari et al., 2018). Using plants to create formulations to treat various ailments and their symptoms play a vital part in the history of traditional method; editage medicine (like avundici methods of Indian medicine like Ayurveda. Ethnomedicine is a study of the traditional

medicine practiced by ethnic communities, specially by indigenous people. The combination of ethnomedicine and ethnobotany is currently of great interest, due

ethnobotany is currently of great interest, due to their important role in finding out or succeeding new medicine. Sunderban is one the most diverse areas of the nation in terms of flora and floran and the entire vegetation is mostly of mangrove type. Since, mangrove species of plants are indigenous and unique to this region (Pattanaik et al., 2008). Mangrove plants having medicinal values are traditionally used









J. Exp. Zool. India Vol. 21, No. 2, pp. 1343-1351, 2018 www.connectjournals.com/jez ISSN 0972-0030 A STUDY ON THE DIVERSITY AND ABUNDANCE OF THE BUTTERFLY AND BIRD SPECIES IN BELGHARIA TOWN OF NORTH 24 PARGANAS

DISTRICT, WEST BENGAL

Saurav Shome*, Sukanta Roy and Anulipi Aich Department of Zoology, Bhairab Ganguly College, Belgharia, Kolkata – 700 056, India. *e-mail: saurayshome48@gmail.com (Accepted 26 June 2018)

ABSTRACT : The present study emphasizes the diversity, richness and abundance of butterfly and bird species in Belgharia town situated in North 24 Parganas district in West Bengal during larger parts of 2017. 47 species of butterflies belonging 15 subfamilies and 15 families were recorded from the study area. Family Nymphalidae was the most prevalent among the five families of butterflies with 20 species followed by Lycaenidae, Pierflae and others: Regarding avian diversity, 56 birds species from 26 families and 10 orders were observed in Belgharia. The maximum number of bird species was recorded under family Ardeidae, followed by Piedka and Columbidae. The study indicates that though the town is a densely populated urban area, it has got a rich avian and butterfly fauna which needs active monitoring and protection.

Key words : Diversity, butterfly, bird, Belgharia.

INTRODUCTION

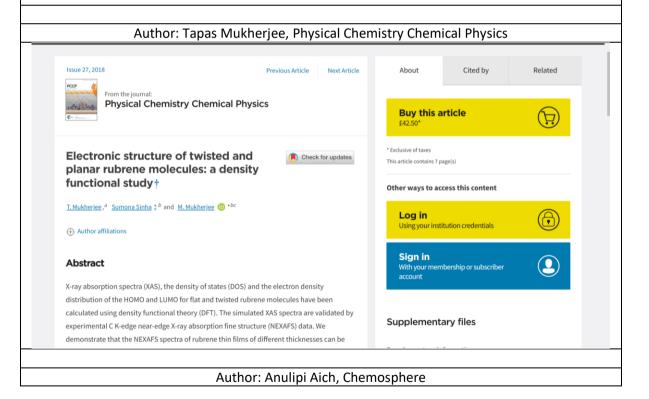
Butterflies are terrestrial lepidopteran insects having prominent roles in pollination and are important elements of the food web as they serve as prey for birds, bats and here insectivorous animals (Kunte, 2000, Butterflies have a history of long-term coevolution with plants as a check denset on enserse and endanas their food subfli adults depend on nectar and pollen as their food while the caterpillars are dependent on specific host plants for foliage (Kchimkar, 2008; Smetacek, 2016). Many species of butterflies are strictly seasonal and extremely sensitive of butterflies are strictly seasonal and extremely sensitive to disturbance and changes in the vegetation structure as well as microclimate (Blair, 1999; Menccheze et al., 2003). Minor changes in their natural habitat owing to anthropogenic activities may lead to their migration or local population extinction and for these reasons they are regarded as bioinficators of general health of any specified terrestrial ecosystem (Kocher and Williams, 2000; Bonebrake et al., 2010; Castro and Espinosa, 2015).

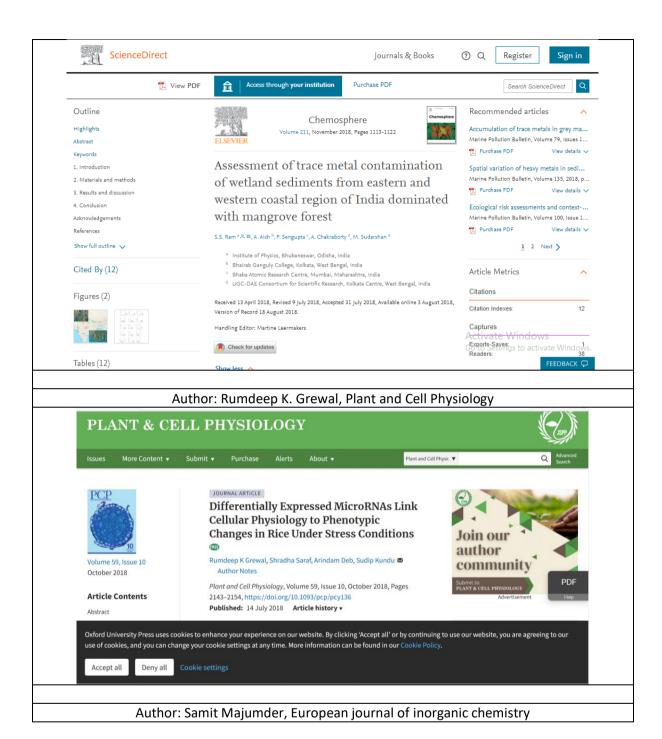
Bonebrake et al., 2010; Castro and Espinosa, 2015). Birds comprise an extremely important group of vertebrates and occupy many levels of trophic webs, from mid-level consumers to top predators and thereby help to maintain sustainable population levels of their prey and predator species (Blair, 1996; Grimmett et al., 2011). Besidos their roles in nutrient cycling, they are important in plant reproduction through their roles as pollinators and/ or seed dispersers over very wide areas (Chace and Walsh, 2006). The activities of birds can have important

consequences for the ecosystems they inhabit, making them incredibly important in the overall functioning of various ecosystems (Beissinger and Osborne, 1982; Blair, 1996). Some birds are considered keystone species as their presence in an ecosystem affects other species directly and maintains the structure and integrity of the community (Daily et al, 1993).

community (Daily et al, 1993). Both butterflies and birds are members of an extremely important group of 'model' animals used, for centuries, to investigate many areas of biological sciences, including such diverse fields as navigation, pest control, embryology, mimicry, evolution, genetics, ecology and environment, population dynamics and biodiversity conservation. They play various important roles in sustaining both terrestrial and aquatic ecosystems and therefore are good biological indicators of habitat quality as well as general environmental health (Crosby et al, 2015; Launer and Murphy, 1994).

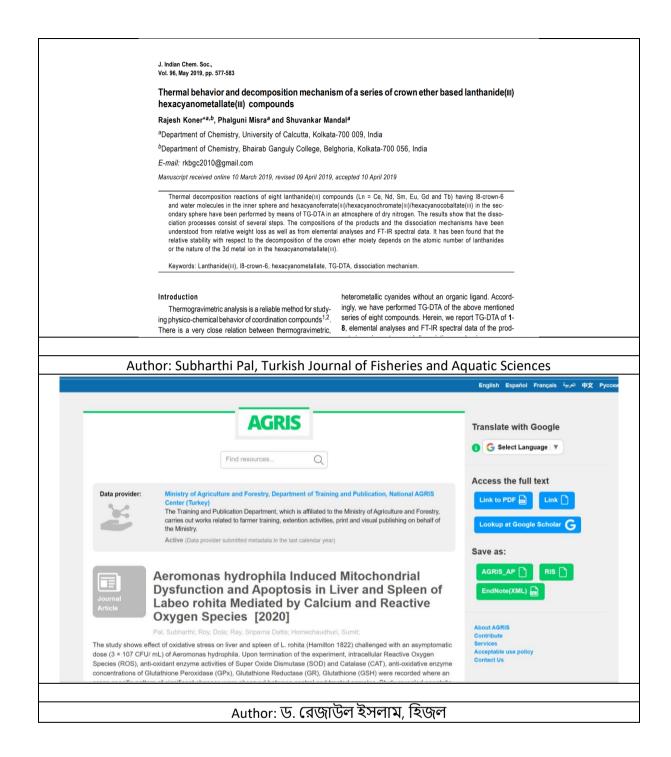
2015; Launer and Murphy, 1994). Because of their dependence on the plants, diversities of both birds and butterflies may reflect overall plant diversity in the given area (Leps and Spitzer, 1990; Launer and Murphy, 1994; Daily *et al.*, 1993). The conservation of birds and butterflies is necessary to sustain varied kinds of ecosystem services for human well-being. Both of these animal groups have been widely used by ecologists as model organisms to study the impact of habitat loss and fragmentation, climate change and

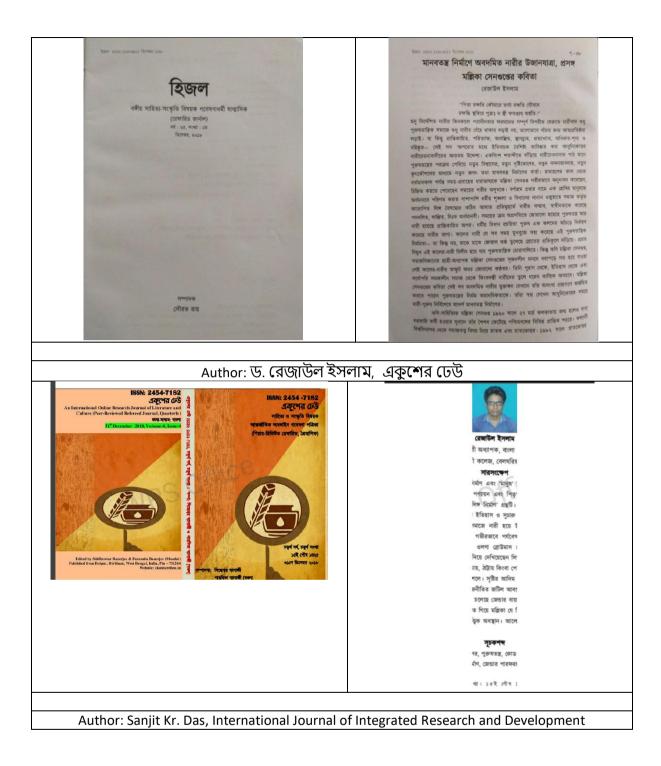






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जोधवात्रः अर्दैतवेदालविभागः

राष्ट्रियसंस्कृतविश्वविद्यालयः तिरुपति

अर्णवधोषालः

प्रमाणेषु नव्यन्यायस्य प्रभावः

अर्णवघोषालः

लक्षणप्रमाणाभ्यां हि वस्तुसिद्धिरिति नियमः। तत्र लक्षणस्वरूपं लक्षतावच्छेदकसमनियत-असाधारणः धर्म इति नैयायिकमतम्। तच्च लक्षणं यावल्लक्ष्यभावि व्यावर्तकं स्वरूपलक्षणम्। अयावल्लक्ष्यभावि व्यावर्तकम् तटस्थलक्षणम् इति द्विधा विभज्यते। सत्यं ज्ञानम् आनन्द इति ब्रह्मणः स्वरूपलक्षणम इत्यक्त्वा शङ्कते - लक्ष्यवत्तिः धर्मः एव लक्षणम। यदि स्वरूपमेव लक्षणं तर्हि स्वस्य स्ववृत्तित्वम् अनुपपन्नम् इति। तत्रोच्यते - अभेदेऽपि भेदं परिकल्प्य स्ववृत्तित्वमिति। आनन्दादयः ब्रह्मणः अपृथक्त्वेऽपि पृथगिव अवभासन्ते इति साम्प्रदायिकाः। तथा जगज्जन्मस्थितिकारणत्वम् इति यतो वा इमानि भूतानि जायन्ते इति श्रुतिनिर्णितं ब्रह्मणः तटस्थं लक्षणम् इति वेदान्तिभिरङ्गीक्रियते। ब्रह्मसाक्षात्कारे जगतः मिथ्यात्वेन निवृत्तौ ब्रह्मणि तत्कारणमपि निवृत्तम्। नैयायिकानामपि इदं तटस्थलक्षणमभिमतमिति प्रतीयते। अत एव गन्धवत्त्वं पथिव्याः लक्षणम् इति तटस्थलक्षणम् उक्त्वा प्रलयकाले पथिवीपरमाण्ष् उत्पत्तिक्षणविनष्टे घटे च गन्धस्याभावाद् अव्याप्तिमुक्त्वा गन्धसमानाधिकरणद्रव्यत्वापरजातिमत्वम् इति लक्षणपरिष्कारः तैरङगीक्रियते।

अद्वैतवेदान्तशास्त्रस्य प्रमाणेषु न्यायवैशेषिकदर्शनस्य कियान् प्रभावः अस्ति तदिदानीं चिन्त्यते। प्रथमतः। स्मृतेः प्रमात्वमभ्युपगच्छतां नैयायिकानां मतम् अवलम्ब्यैव अनधिगत अवाधितार्थविषयज्ञानत्वं प्रमात्वमिति प्रपञ्चितम्। स्मृतेरधिगतार्थविषयत्वात् प्रामाण्यं नास्ति इति अभिप्रायः। वस्तुपरिच्छेदाय व्यवहाराय च प्रमाणमपेक्ष्यते। इदं द्वयमपि स्मृतौ पूर्वानुभवेनैव सिद्धमिति अतः स्मृतेरनुवादस्य च प्रामाण्यं नेच्छति भाटृाः। वेदान्तिनां लक्षणं द्वयमिदं अनधिगतम् इति पदेन निरस्तम्। अयं घट अयं घट इति धारावाहिक बुद्धिस्थले तु विषयभेदाभ्युपगमे एव ज्ञानभेदो वक्तं शक्यते। विषयस्य चैकत्वे ज्ञानस्यापि एकत्वमेव। अर्थेनैव विशेषो हि निराकारतया धियाम् इति। एवमेव सविकल्पकनिर्विकल्पकभेदस्तु अद्वैतिभिः स्वीक्रियते। परन्तु सन्निकृष्टविषयं शवद्जन्यमपि ज्ञानम् अस्माभिः प्रयत्अमिति उच्यते यथा त्वं सुखि इति ज्ञानम्। तेन स्वगतसुखज्ञानं जायते। तस्य ज्ञानं प्रत्यक्षमिति स्वीक्रियते। यथा दशमस्त्वमसि इति वक्तुवाक्यजन्यमपि ज्ञानं दशमोऽहम् इति च श्रोत्ज्ञानं वाक्यजन्यमपि सन्निकृष्टमित्यतो हेतोः तस्य प्रत्यक्षत्वं स्वीक्रियते अस्माभिः। तथैव तत्त्वमसि वाक्यजन्यं ज्ञानम्। इन्द्रियाजन्यमपि प्रयक्षशब्दजन्यमपि ज्ञानं प्रत्यक्षमिति तत्र स्वीक्रियते विवरणकारैः। विशेषणविशेषसम्बन्धावगाहि ज्ञानं सविकल्पकम् सम्बन्धानवगाहिज्ञानं निर्विकल्पकम् इति यदुच्यते सर्वमपि तत् अस्माभिः स्वीक्रियते। तद्वस्तुतः नैयायिकप्रभवितमेव इति अस्माभिः अद्वैतिभिः उक्तम्। किञ्च अन्यत्रापि सन्निकर्षस्वीकारविषयेऽपि। षोढा सन्निकर्षाः नैयायिकैः स्वीकृताः। अद्वैतिनस्तु तन्न स्वीकुर्वन्ति। चैतन्याभिव्याञ्चकवृत्तिजनने संयोगादीनां सन्निकर्षाणां विनियोगमिच्छन्तो वेदान्तिनः समवायस्य नित्यसम्बन्धस्य तिरस्कारेण -145-

National Journal of Hindi & Sanskrit Research

Correspondence वर्णवभोषालः

शोधछात्रः, अद्वैतवेदान्तविज्ञास

राष्ट्रियसंस्कृतविश्वविद्यालय, तिरुपति

सन्निकर्षः स्वीक्रियते। कृतः तत्र समवायसम्बन्धः वेदान्तिभिः न स्वीक्रियते इति चेत् नित्यसम्बन्धः समवायः इत्युच्यते। यदि तद्भिन्नं किमपि नित्यं स्यात् तर्हि तत्र सिद्धान्तविरोधः प्रसज्येत। अतः नित्यसम्बन्धरूपः समबायः अद्वैतिभिः नाङगीक्रियते।

तत्स्थाने तादात्म्यम् अभिसिञ्चन्ति। तत्र अद्वैतिनां मते संयोगः, प्रमेयतायम् अत्यन्ताभावप्रतियोगीत्वम् अस्ति इति तैरुच्यते। संयुक्ततादात्म्यम्, आवश्यकं चेत् संयुक्ततादात्म्यतादात्म्यम् इति अद्वैतिनां मते तु ब्रह्मनिष्ठात्यन्ताभावप्रतियोगित्वमेव ब्रह्मनिष्ठात्यन्ताभावप्रतियो-गित्वमेव न तु अप्रतियोगित्वम् इत्यतः तत्र केवलान्वयिरूपं किमपि नास्ति इत्यतो हेतोः केवलान्वयिरूपं अनुमानम् अस्माभिः नाङ्गीक्रियते। किञ्च तत्र

Author: Sanjit Kr. Das, International Journal of Integrated Research and Development

Impact of Socio-Economic and Technological factors on India's Economic Growth during post liberalization periods	
Dr. Sanjit Kumar Das Vice Principal. Bhairab Ganguly College, Belgharia Email id: <u>saniitbge@gmail.com</u> .	
Abstract	
This study is based on secondary data and basically empirical in nature. This study consider one country i.e. India a	
developing one and time period is considered here is post liberalization period i.e. from 1995 to 2017. The aim of	
this study is to measure various socio-economic and technological variables on GDP and PCGDP separately. We have used linear regression method for measuring the impact of explanatory variables. In this study we have	
considered economic freedom index and rule of law index as an explanatory factors but we see that their effects are	
not significant. We, in our study have found that the variable total factor productivity (TFP) and mean years of	
schooling (MYS) have positive and significant effect on GDP whereas globalization index (GI) has negative and significant effect on GDP Life expectancy at birth (LE) has also positive effect on GDP but at moderately significant	
significant effect on GDP Life expectancy at birth (LE) has also positive effect on GDP but at moderately significant level. We also find that the LE, PCDC and EMPR have positive and significant effect on the PCGDP whereas GI	
has negative and significant effect on PCGDP	
Keywords: India, GDP, PCGDP, Total factor Productivity, Mean Years of Schooling, Life expectancy.	
(Paper received on 30/04/2019; Paper accepted on 15/05/2019; Paper published on $1^{\rm st}$ June, 2019.)	
I. Introduction: It is known to all that the growth of any country as measured in terms of GDP	
depends on several factors like levels of education, technological progress, globalization, rule of	
law so on and so forth. Interestingly, it has been found that in developing countries since	
technological attainment is low they try to imitate or purchase modern technology from	
developed countries and thus spend a significant portion of GDP to acquit it. It is basically owing	
to the fact of lower level of educational attainment compared to developed countries. Majority of	
the developing countries have taken the liberalization process in the decades of 90's since they	
believe that globalization can affect their economy to large extent. There is a number of studies	
that reflect the fact that globalization has an adverse effect on the income of developing or less	
developed countries but a number of studies are there that reflect globalization has positive and	54
significant levels on income and employment in case of developing countries. Globalization has	Page 164
many dimensions: (i) economic globalization; (ii) technological globalization and (iii) social and	Bed
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Volume: 2/Issue: 16/Dec 2019-ISSN: 2278 8670 Pp.-64-69.

Keys to Get Success in Leading Today's Corporate Sector: Guidelines from Arthashastra

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Abstract

Abstract One of the keys to successful leader of the present day corporate sector is the ability to understand and apply management principles and techniques efficiently and effectively. Managers must develop an in-depth knowledge of past and present models, theories and processes to manage intelligently. In contemporary management practice, the role of the leader is very much important and we find stark kimilarities between operating the corporate sector and governing a monarchy as depicted by Kautilya in Arthashastra. This paper argues that in this complex business environment some of the guidelines of Arthashastra regarding the role of leader in smoothly running a corporate sector are very much relevant.

Keywords: Arthashastra, Leader, Corporate, Guidelines.

(Paper received on 30/09/2019; Paper accepted on 20/11/2019; Paper published on 1st December, 2019.)

Introduction

According to Kautilya, the King can rule properly to govern like a concern father. Kautilya has opined that a king should not have any self-interest, happiness and joy for himself. His satisfaction lies in the welfare and happiness of his people, i.e. he has to submerge his personality into the larger personality of his people (*Praja Sukhe Sukham Rajya*). Kautilya mentioned that the happiness of the king lies in the happiness of his subject; and welfare state means welfare of the people (*Bahujanasukhaya bahujanahitayacha*). Kautilya has mentioned that "*Control over* the senses, which are motioned by training in the sciences, should be secured giving up lust (kaam), anger (krodha), greed (lobha), pride (mana), arrogance (madh) and overexcitement (harsha)". He has mentioned that the role of a leader is very critical because he has to take varieties critical because he has to take varieties decisions considering different types of complexities in day to day business. The leader must have a close look after the persons around him and he must set himself as an example to the followers. The policy suggested in Arthashastra

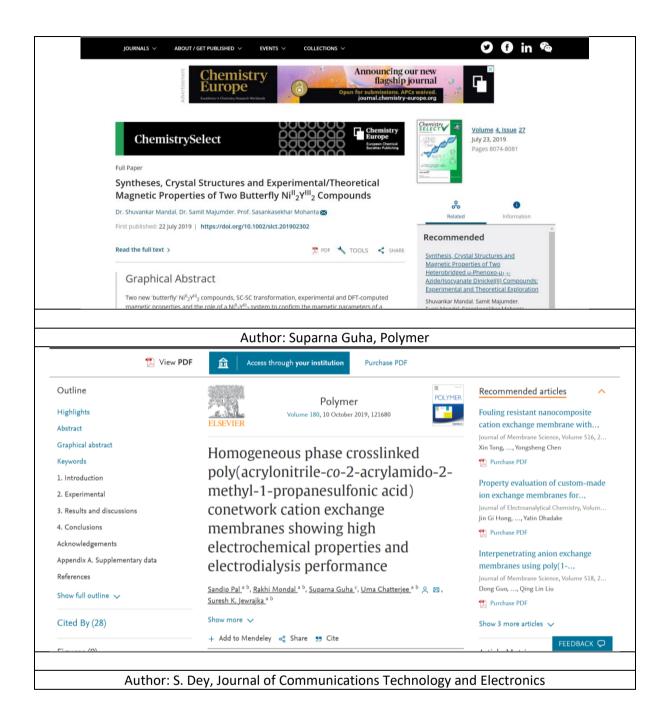
attempts to strike a balance between the delicate interests of the parties involved in the corporate system. Kautilya has commented "The objective of any king (leader) or state (business organization) is (leader) or state (business organization) is to create, expand, protect and enjoy wealth". Kautilya has explained the importance of the king (leader) in making logical distribution of wealth among his subjects. He suggests "Brevery, subjects. He suggests "Brevery, resentment, quickness and dexterity-these are the qualities of energy". This is applicable to the management of business finance as well. The way a business organization distributes and manages its profit, determines its future financial wellbeing.

Leadership Qualities Every leader needs to plan properly for execution of a work and for this some (sahaysadhyamrajatyam). According to katulya, it is the king who sets the tune of whole administration with the advice of the royal officers where the supremacy of everything vests with the king. Before appointing any advisor the king should

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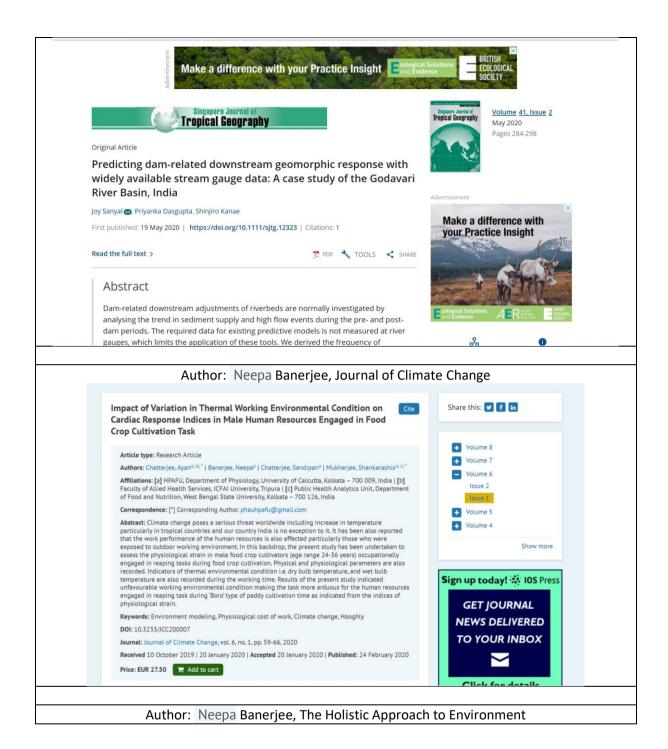
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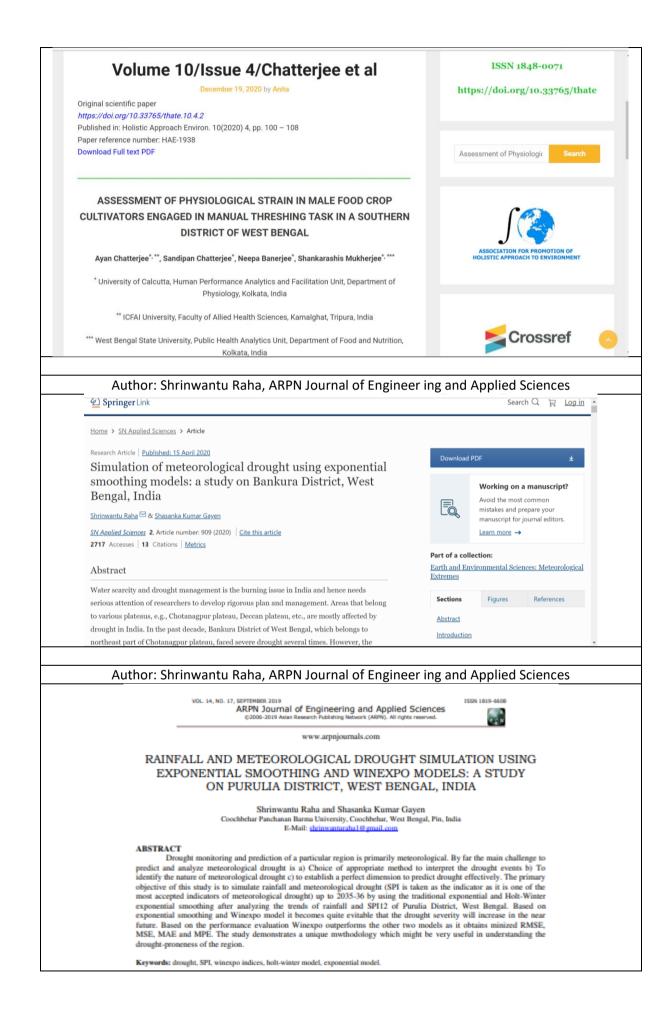






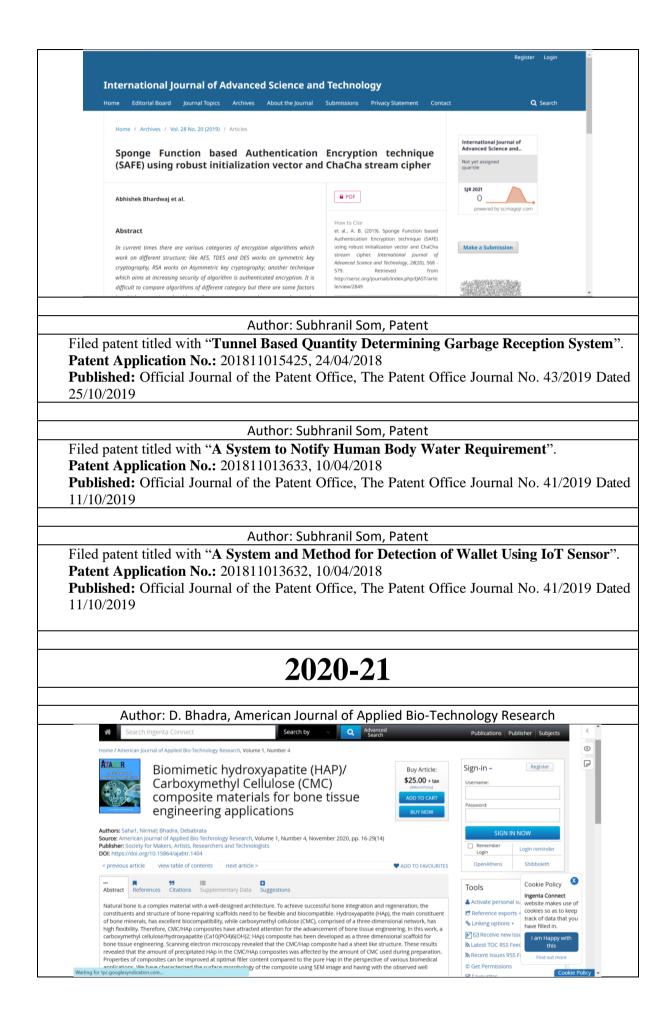
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Special Issues	death in liver and spleen of Labeo rohita exposed to asymptomatic dose (2 × 107 CFU/mL) of pathogen were studied. Evaluation of in vivo non-specific immunity via Nitro blue tetrazolium (NBT) reduction assay, myeloperoxidase (MPO) assay and serum bactericidal activity assay exhibited significant alterations among
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SOME REMARKS ON POROUS SET IN TERMS OF MIDPOINT SETS

DHANANJOY HALDER

(Received 4 December 2019)

Abstract. An attempt has been made in this paper is to show that every Lebesgue measurable linear set with positive measure has a porous subset whose midpoint set contains an interval. The category analogue of this result is also established.

2010 Mathematics Subject Classification : Primary 28405; Secondary 26415

Key Words and Phrases: Midpoint set; Property of Baire; Porous set; Difference set.

1. Introduction. First we recall the definition of Porous set (Miller and Miller, 1987–88) as bellow:

DEFINITION 1.1 (Miller and Miller, 1987–88) Let A be a non-empty subset of real line \mathbb{R} and $x \in A$. A is said to be porous at x, if there exists a constant c, $0 < c \leq 1$ and a sequence of intervals $\{I_n\}$, each containing x, whose length tends to zero as n tends to infinity, such that each interval I_n contains an interval J_n that is disjoint from A and $\frac{\lambda(J_n)}{\lambda(I_n)} \geq c$, where $\lambda(A)$ denotes the Lebesgue measure of A. The set A is called porous set if it is porous at each of its points.

Author: Rupa Sanyal, Applied Microbiology and Biotechnology

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Mini-Review Published: 26 May 2021

Biotechnological interventions and genetic diversity assessment in <i>Swertia</i> sp.: a myriad source of	
valuable secondary metabolites Prabhjot Kaur, Devendra Kumar Pandey, ^{CC} , R. C. Gupta, Vijay Kumar, Padmanabh Dwivedi, Rupa Sanyal & Abhijit Dey, ^{CC}	

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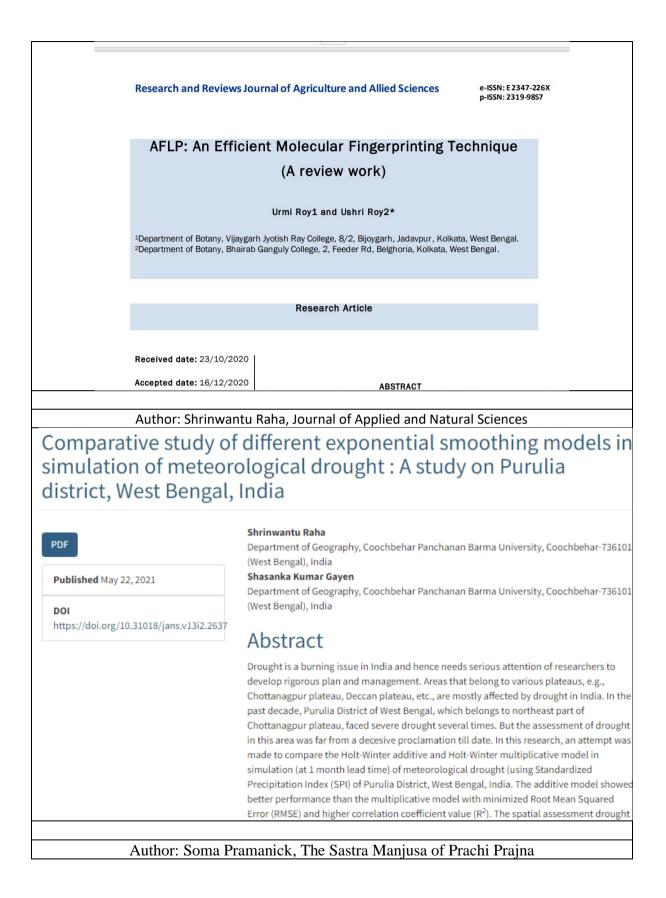
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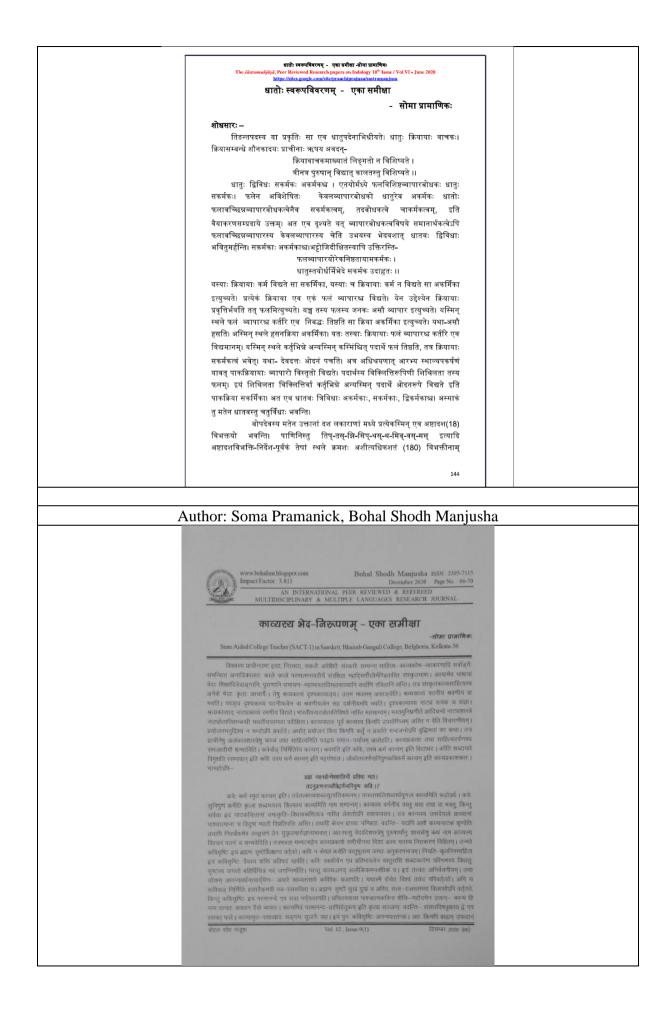
The genus *Swertia* (Family: *Gentianaceae*) has cosmopolitan distribution which is present in almost all the continents except South America and Australia. *Swertia* genus has been renowned as one of the potent berbal drugs in the British American and

Author: Subhranil Som, International Journal of Knowledge-Based and Intelligent Engineering Systems, Netherlands



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² Departn	nent of Botany, Bhairab Ganguly College, Belgha *Corresponding Aut	aria, 2, Feeder Rd, Beehive Garden, Belghoria, Kolkata hor E-mail: ushri_roy@rediffmail.com	a, West Bengal 700056.
activities. Soaked seeds are eaten as a good source of prov acids, amino acids, carbohydrates, and lipids. It is related of cures for paralysis, fheumatism, coughs, fevers, and li Polymorphism (AFLP) is a molecular marker used for a determining the relatedness among cultivars. AFLP has be made to assess the genetic diversity and phylogenetic relat	ein and mature seeds are cooked or can be sprou to different biological activities like antioxidant, view ailunetts. As a green manure or cover crop, variety of applications like assessing genetic div come extremely beneficial in the study of taxa in tionships of a set of five varieties of <i>Vigua radiat</i> ents were scored across all the 12 AFLP prime r2	the for human consumption. Mung beans and its sprou , antimicrobial, antitumor, anti-inflammatory, anti-idiab the plant can be grown, enriching the soil with the n versity within species or among closely related species cluding bacteria, fungi, and plants, where much is still at (J). Wilczek using the AFLP technique. Five differen	ae vegetarian population. It contains abundant nutrients with ts contain chemical constituents like flavonoids, phenolic acid etic, and antihypertensive effects, etc. The seeds are a traditio itrogen formed on its roots. The powerful Amplified Fragmes , inferring population-level phylogenies, generating genetic unknown about the genomic makeup of various organisms. A t varieties of <i>Vigna radiata</i> viz. B1, TARM 2, PDM 84, TM 99 m. It was observed that these five varieties formed three distin
KEYWORDS: Mung bean, Vigna radiata, AFLP, genet	ic diversity, genetic relationships, phylogeny, med	dicinal plant.	
gradually increased in many countries ^{1,2,3} . Mung beans (l therapies. The use of phytochemicals for pharmaceutical pur dia since ancient times. Mung beans are eaten in salads, sou
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Author: Manidip Chakraborty, International Journal of Research and Analytical Reviews

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Journey towards the Lucid Darkness: A Postcolonial Study of the Myth of the Lord of the Jungle

Manidip Chakraborty

Assistant Professor

Department of English

Bhairab Ganguly College, West Bengal State University, Kolkata, India

Abstract:

A postcolonial study will reveal how the Phantom comic books have represented the early 20th century Eurocentric colonial mindset of the white colonizers. The self-proclaimed benign white ruler with a mission to protect and control the ways of the Third World countries has persisted even in the neocolonial era of the second half of the 20th century. It is rather the character of the Black Panther, the black incarnation of the Phantom, that has laid bare the myth of the lord of the jungle inside out and transformed the whole story into a truly postcolonial account of the reawakening of the dark, marginalized world from its long-drawn stupor.

Keywords:

Enlightenment, myth, culture, colonialism, Eurocentric, ideological, postcolonial

I. Introduction:

The Black Panther, the Third World superhero of the Marvel universe, has been the reason behind the MCU getting its proper entry to the Oscars (the 2018 movie *Black Panther* received seven nominations at the 91st Academy Awards, and the first Academy Award win for an MCU film). Also, the inclusion of the black protagonist in a superhero stable largely represented by white members has attracted much critical discussion. In many ways, it is the reincarnation of the Phantom, the fictional, costumed, "white' crime-fighter first appearing in comic strip in 1936. There are way too many similarities that would connect the Phantom and the Black Panther – both belong to the fictional countries of the dark continent of Africa (Bangalla and Wakanda respectively), both legacy-heroes belong to a long hereditary tradition of crime-fighting, both resort to the creation of a mythical, apparently immortal image of a vigilante who punishes the criminals and protects the innocent, both wear rings which are passed on from one generation to another, and the list seems to go on. But the single point of departure that might negate all the similarities is as follows – T'Challa, the person behind the mask of the Black Panther is a black person, and unlike the Phantom, his white counterpart, is an indigenous member of the African country, culture and tribes he tries to protect. This is not the self-proclaimed white man's burden of ruling a dark country; it is more like a project of re-establishing the aborginal culture with all its essential features intact.

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II. Methodology:

The present article therefore studies the social and political power relationships that sustain colonialism and neocolonialism in the Phantom-narrative; it also considers the Black Panther narrative as representing the ideological response to the colonialist thoughts embedded in the Phantom stories.

III. Results and Discussion:

According to Frantz Fanon, the ideological essence of colonialism is the systematic denial of "all attributes of humanity" of the colonized people. Such dehumanization is achieved with physical and mental violence, by which the colonist means to inculcate a servile mentality upon the natives. (Wretched 250) The very idea of the Phantom acting as the lord-cum-guardian of the Third World provinces for about four centuries sounds like the comic book representation of the Western colonial history. The first Phantom is heard swearing the Oath of the Skull: "I swear to devote my life to the destruction of piracy, greed, cruely, and injustice, in all their forms, and my sons and their sons shall follow me." (Wiki_Phantom) The focus on the word 'sons' has displeased people from gender studies, but that is no the concern of the present article. In a way, it is also a normalizing of the four-century long history of colonial expansion, ideological domination and the Euro-centric exaggeration of the image of the white ruler. As per the myth created by Lee Falk, the creator of the Phantom, the humanitarian white European who became the first Phantom was a part of Christopher Columbus' project of discovering new lands (according to the story line, he even married Marabella, the daughter of Columbus). (Wiki_Phantom)

Following a shinwreck however, he ends up on the sea-shore of the dark world of Bangalla. He is saved hy

Author: Manidip Chakraborty



Filed patent titled with "An Interactive Helmet Connected with an Ignition System of a Two-Wheeler"

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Author: Manidip Chakraborty, International Journal of Creative Research Thoughts

© 2021 IJCRT | Volume 9, Issue 5 May 2021 | ISSN: 2320-2882 www.ijcrt.org IJCRT.ORG ISSN: 2320-2882 **INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)** An International Open Access, Peer-reviewed, Refereed Journal THE BIO-FRIENDLY MASS-DESTROYER: RISE **OF ECO-TERRORISM IN THE CONTEMPORARY SUPERHERO UNIVERSE** Manidip Chakraborty Assistant Professor Department of English Bhairab Ganguly College, West Bengal State University, Kolkata, India Abstract: Eco-terrorism has grown to become a powerful opponent of superheroes in contemporary comic books and movies. Seen as an inevitable alternative for the androcentric views traditionally promoted by such works, Eco-terrorism has successfully struck a chord with the reader/viewers. Ra's al Ghul and Thanos, two eco-terrorist super-villains, have managed to become iconic figures and gamered immense fan-favour despite their radical ideologies and extreme measures. Despite their ultimate defeat, they have successfully problematized the ideological and political scape of the superhero discourse. Key Words: Eco-terrorism, philosophy, villain, ideology, bio-centrism, anthropocentrism, radical, extreme, balance, civilization, inevitable. L Introduction: The recent boom in superhero movies has made possible the gradual defacing of the demarcating line between the 'heroes' and the 'villains'. The questions related to moral and ethical duties of the superheroes have been further problematized as the so-called villains have often represented the moral standpoint, become a source of a provinsitive and so can be so that and the provided the provided the matrix and point, the some a source of the some relief. The popular culture has embraced such multifaceted ins' over the somewhat stereotypical heroes, and consequently the heroes too have been placed in a gray villains zone, making the viewers' moral choice even more difficult. One fine instance might be seen in the portrayal of some iconic villains in the last few decades in both comic books and movies which might be one of the reasons to have brought the very notion of eco-terrorism to the mainstream. Ra's al Ghul (from Batman comic books and the DC Universe) and Thanos (from the Avenger movies of the Marvel Universe) are two such eco-terrorists who have succeeded in garnering a considerable amount of sympathy, and even support, from the readers/viewers despite their radical, genocidal views. IJCRT2105510 International Journal of Creative Research Thoughts (IJCRT) www.ijcrt.org e549 © 2021 IJCRT | Volume 9, Issue 5 May 2021 | ISSN: 2320-2882 www.ijcrt.org II. Methodology: The current paper attempts to consider how the wise application of the theories related to Eco-terrorism ("an act of violence committed in support of ecological or environmental causes, against people or property") has enriched the ideological and philosophical dimension of the superhero comic books and movies; thus altering and considerably raising the critical consensus regarding such books/movies in the process. (Wiki_Ecoterrorism) ш. **Results and Discussion:** Ra's al Ghul, a centuries-old worldwide eco-terrorist, is not only the arch-villain of the Batman, but also a father-Ra's al unui, a centurities-old worlawide eco-terrorist, is not only the arch-vitilian of the batman, but also a rander-figure to him. The Batman, a perfect representative of what Ra's al Ghul calls the 'misguided idealists' in the 2005 Christopher Nolan movie *Batman Begins*, resonates the typical mindset of the U.S. government that considers the eco-terrorists to be mere special interest extremists. What is beyond the understanding of Batman is the idea of Biocentrism, which is described as "a belief that human beings are just an ordinary member of the biological community" and that all living things should have rights and deserve protection under the law. (Wiki_Eco-terrorism) The government-endorsed policy might well be understood as Anthropocentrism; i.e. the belief that human beings are the most important entity in the universe. (Wiki_Eco-terrorism) The irony lies in the fact that the very idea of Batman revolves around the creation of terror, chaos and darkness, albeit for a noble cause; i.e. the further empowerment of law and order. The bat-suit that Bruce Wayne dons to terrify the criminals, aligns him with the wild, primal forces of nature. Yet, his fight is for cleansing the Gotham city of poverty and crime. Theoretically thus he is the guardian of the order of the civilized society

In the complex visual-metaphorical treatment of Christopher Nolan, this ambiguity has been enhanced to a considerable degree. Thus in his first installment of the Batman trilogy, the viewers are presented with the almost enticing philosophy (aided by the brilliant oratory skill of Liam Neeson) of Ra's al Ghul, the trainer cum moral entry of Ruce Wayne.

Author: S. Dasgupta, International Journal of Research in Engineering and Science



Author: Mintu Halder, Library Progress (International)



Indian Journal of Advances in Chemical Science



Annulation of Internal Alkyne toward Synthesis of Selective *E*-Benzofulvene and Mechanistic Study using Density Function Theory Calculation

Shubhendu Dhara¹*, Anuvab Das², Dhiraj Das³, Rajesh Koner¹

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ABSTRACT

An efficient approach has been devised for the synthesis of highly functionalized *E*-benzofulvenes. While annulating an internal alkyne with 4-(2-bromophenyl)but-3-en-2-one yielded up to 87% of E-benzofulvene derivatives. Double functionalization of C_{sp2} -H and *ortho*-C-Br bonds in an α,β -unsaturated arylketone in the presence of cheap catalyst PdCl₂ with alkyne triple bond afforded almost quantitative formation of highly substituted benzofulvene in N,N-dimethylformamide solvent and under reasonable reaction conditions. Detail mechanism of annulations of alkynes to give selective *E*-benzofulvenes has been studied by density function theory analysis using the Gaussian 09 program.

Key words: E-Benzofulvene, Annulation, Internal alkyne, Wittig reaction, o-bromostyrene, Density function theory.

1. INTRODUCTION

In the course of our ongoing research on developing new synthetic

Author: S Dasgupta, Geoenvironmental Disasters

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Preprints are preliminary reports that have not undergone peer review. They should not be considered conclusive, used to inform clinical practice, or referenced by the media as validated information.

Landslide Susceptibility Analysis: A Case Study of Nainital Municipal Area

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Research

Author: N. Banerjee, Asian Journal of Water, Environment and Pollution

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M	Article type: Research Article Authors: Chatterjee, Ayan Chatterjee, Sandipan Chatterjee, Surjani Banerjee, Neepa Santra, Tanaya Mukherjee, Shankarsahis ¹⁵⁷ Affiliations: HPAFU, University of Calcutta, Kolkata – 700009, India [a] Public Health Analytics Unit, Department of Food and Nutrition, West Bengal State University, Kolkata – 700126, India Correspondence: [1] Corresponding Author: phauhpafu@gmail.com Abstract: With respect to population growth, there will inevitably be an increasing need for	Share this: C C C Share this: C C C Share this: C C C Share this: C Share this: C Share this: C C Share this: C Share this: C C Share this: C Sha
	improvements in technology, which has led to greater energy efficiency, higher labour efficiency, continuous production methods and operating flexibility; in addition to these factors, mechanisation has also advanced rapidly. It has been also been reported that the introduction of louder machines with the process of industrialisation has made noise a major occupational and environmental hazard. Against this backdrop, as tudy has been conducted to assess the impact of occupational noise, if any, on the hearing status of human resources occupationally engaged in the industry. A total of 57 male volunteers, aged between 25 and 39 years, working at least for a period of 5 years, constituted the avored around. A total of 55 individuals of comparable assumption in a diministrative office constituted the avored network.	Issue 1 Volume 17 Volume 16 Show more
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	Preparation and characterization powder (CFP)-polyvinyl alcohol	
	films showing percolation thre	shold behaviour
	Biswadeep Chaudhuri ª Ӓ 🖾, Shrabani Ghosh ^b , Bholanath Mondal ^c , D	ebabrata Bhadra ^d
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	Received 10 September 2020, Revised 27 September 2021, Accepted 1 2021, Version of Record 27 October 2021.	5 October 2021, Available online 27 October
	Check for updates	
	Author: Rituparna Ghosh, Toxicology Mecha	nisms and Methods



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Home > Vegetos > Article

Short Communications | Published: 05 October 2021

Establishment of adventitious root culture from leaf explants of *Plumbago zeylanica*: an endangered medicinal plant

<u>Kajal Katoch, Suphla Gupta, Romaan Nazir, Vijay Kumar, Rupa Sanyal, Abhijit Dey</u> 🗠 & <u>Devendra Kumar</u> <u>Pandey</u> 🗠

Vegetos 35, 276-280 (2022) Cite this article

61 Accesses | 2 Citations | Metrics

Abstract

Plumbago zeylanica L. (Plumbaginaceae) is a very important medicinal plant containing plumbagin as the major secondary metabolite synthesized and stored in its roots. Overexploitation to meet the growing demand on global level has put it under the endangered plant category. The objective of the present study is to provide the desired plant material for industrial use. Adventitious root culture is considered as an alternative source of plant material. In the present study, the leaf explants were inoculated on half-strength Murashige and Skoog (MS) medium supplemented with different plant growth regulators to obtain the

Author: Senjuti Banerjee, Journal of Mycopathological Research

J. Mycopathol. Res. 59(2) : 165-169, 2021; (ISSN 0971-3719) © Indian Mycological Society, Department of Botany, University of Calcutta, Kolkata 700 019, India

Antimicrobial and antioxidant properties of common mangrove plants of Sundarban, Patharpratima, West Bengal

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The aqueous, 95% ethanolic and 80% acetone extracts of leaves of Herittiera formes, Aegialitis rotundifolia, Avicennia alba, Avicennia marina, Avicennia officinales, Rhizophora mucronata, Ceriops decandra, Ceriops tagal, Bruguiera gymnorrhiza and Aegiceras corniculatum were tested for their antimicrobial activities on Bacillus subtilis, Staphylococcus aureus, Escherichia coli and Klebsiella pneumonia. The free radical scavenging activity or antioxidant effects of the leaf extracts were also checked. Aegialitis rotundifolia, Rhizophora mucronata, Herittiera formes, Aegiceras corniculatum, Avicennia alba, Avicennia officinales, Ceriops decandra and Bruguiera gymnorrhiza showed antibacterial activity against Bacillus subtilis in different solvents. In growth of Staphyllococcus, Aegialitis, Avicennia marina, Rhizophora mucronata and Aegiceras corniculatum showed hindrance. In case of *E. coli*, Aegialitis, Rhizophora and Aegiceras were effectives. Aegialitis, Herittiera, Avicennia and Rhizophora showed resistance in growth of Klebsiella. They can be used to develop natural drugs in lieu of commonly used strong allopathic drugs.

Key words: Antimicrobial property, antioxidant property, flavonoid, mangrove leaves

Author: Rupa Sanyal, Industrial Crops and Products



Industrial Crops and Products Volume 169, 1 October 2021, 113626



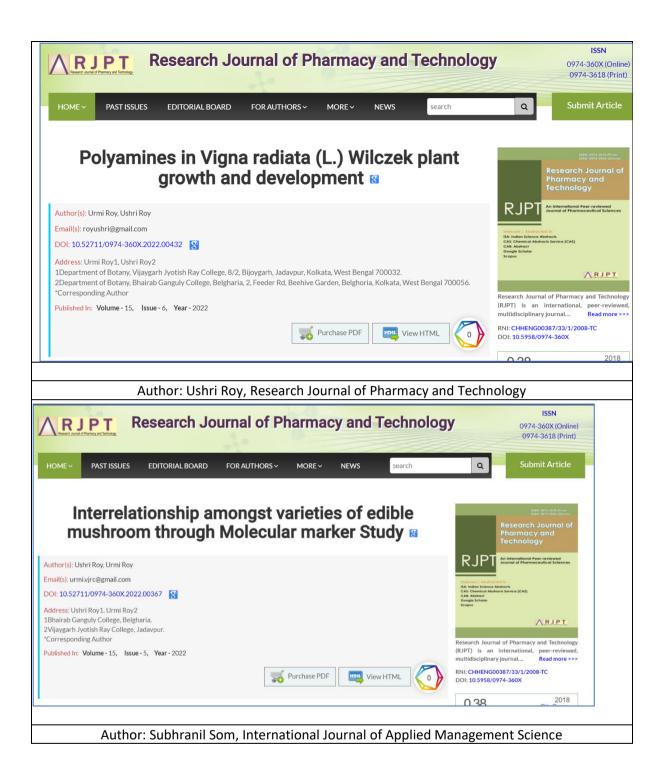
Statistical optimization of *in vitro* callus induction of wild and cultivated varieties of *Mucuna pruriens* L. (DC.) using response surface methodology and assessment of L-Dopa biosynthesis

Bhavana Tandon ª, Uttpal Anand ^{a, 1}, Blessymole K. Alex ª, Prabhjot Kaur ^b, Samapika Nandy ^c, Mahipal S. Shekhawat ^d, Rupa Sanyal ^e, Devendra Kumar Pandey ^b, Eapen P. Koshy ^a \approx 🖾, Abhijit Dey ^c \approx 🖾

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Jharkhand Movement	and Muslim League
Politics	in 1940s
Krishanu	Ghosh
Jharkhand came into existence as a new state on 15th, Nov first phase is the Jaipal Phase, second Phase-of 1960s and with the strategy of a united front with non-tribal populatie to the Muslim League, mainly after the Pakistan resolution 1940. There was an unrecorded alliance between Adibasi 1941 to 1946.After the Bengal riots, the link between Leagu whole situation, and the link between Muslim League and	the third phase, which ultimately achieved success, began on. In the first phase, the Adivasi Mahasabha came closer was adopted by the Muslim League at Lahore in March, Mahasaba leaders and the Muslim League leaders from e and Adibasi Mahasaba decreased. Partition changed the
Key Words : Jharkhand, Adivasi Mahasabha, Pakistan reso	lution, Jaipal Singh, Raghib Ansari





Journal_Volume 15, 2022_Kisku

Caught between Art and Crisis: Identity in Mandelstam's "Art of Parting"

Sukla Kisku

Abstract

Osip Mandelstam (1891-1938) will always be one of the most eminent as well as controversial names of Russian literature till date. Being the advocate of Acmeist poetry, Mandelstam's poetry mostly emphasized his individual urges, and concerns rather than the politically infused voices. While his contemporary authors like T.S. Eliot and James Joyce were engaged in their contribution to modern literature, Mandelstam was struggling to determine his identity as an independent poet and political spokesperson for the ruling regime at that period. In fact, his struggle to define his identity was entirely streaming during his poetic career, from a wider perspective. The approach towards 'art of parting', not only restricted in the case of "Tristia" but also that of his own life, had left an unforgettable trace on his poetic career emphasized with mythological reverberation. His

Author: Makhleswar Rahaman, KANPUR PHILOSOPHERS

Kanpur Philosophers, ISSN 2348-8301 International Journal of humanities, Law and Social Sciences Published biannually by New Archaeological & Genological Society Kanpur India



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ABUL HASHIM AND EMANCIPATION OF THE BENGAL MUSLIM WOMEN

SK. MAKHLESWAR RAHAMAN Associate Professor of History Bhairab Ganguly College, Kolkata India & Guest Faculty Department of Islamic History & Culture University of Calcutta India

Abstract:

Abul Hashim, the most progressive-minded and erudite Muslim League leader of late-colonial Bengal, was a man of multifarious activities. He was an Islamic philosopher,¹ a lawyer, political leader-cum-activist, an editor, writer and above all a social reformer .² However ,he has remained relatively a less known figure in the history of South Asia.³ No extensive research work has been undertaken on him. Whatever have been written so far about him, is mainly about his political activities, especially his role as

Author: Avijit Sarkar, open Chemistry

Open Chemistry 2022; 20: 505–516

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Research Article

Mamta Tripathi, Ashish Kumar Asatkar, Stalin Antony, Mrinal Kanti Dash, Gourisankar Roymahapatra, Rama Pande, Avijit Sarkar*, Fahad M. Aldakheel, Abdulkarim S. Binshaya, Nahed S. Alharthi, Ahmed L. Alaofi, Mohammed S. Alqahtani, Rabbani Syed

Copper(II) complexes supported by modified azo-based ligands: Nucleic acid binding and molecular docking studies

https://doi.org/10.1515/chem-2022-0164 received February 28, 2022; accepted May 3, 2022

Abstract: Two new copper(II) complexes $[CuL_1]$ (1) and $[CuL_2]$ (2) derived from azo-based ligands 2-hydroxy-5*p*-tolylazo-benzaldehyde (HL₁) and 1-(2-hydroxy-5-*p*tolylazo-phenyl)-ethan-one (HL₂) were synthesized. These two ligands and their metal complexes were characterized by elemental analysis, nuclear magnetic resonance (¹H and ¹³C), infrared, and UV/Vis spectroscopic techniques. Spectroscopy and other theoretical studies reveal the geometry of copper complexes, and their binding affinity towards nucleic acids are major groove binding.

* Corresponding author: Avijit Sarkar, Department of Chemistry, Bhairab Ganguly College, Belghoria, Kolkata, 700056, India, e-mail: chem.avijit.sarkar@gmail.com, tel: +91-2564-3191 Mamta Tripathi, Rama Pande: School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, 492010, Chhattisgarh, India

Ashish Kumar Asatkar: Department of Chemistry, Government Gundadhur P. G. College, Kondagaon, 494226, Chhattisgarh, India Stalin Antony: Department of Traditional Chinese Medicine, State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China Keywords: azo, copper(11) complexes, DFT, ct-DNA, t-RNA, molecular docking

1 Introduction

Nucleic acids are fundamental biopolymers and the most significant genetic substances [1-3]. It can act as good binding ligands because nucleic acids have different binding modes for reversible or non-covalent interaction with transition metal complexes [4]. Hence, the design and synthesis of transition metal complexes is the subject of tremendous interest as it has strong binding efficiency to the nucleic acid and shows great screening for the development of new drugs [5]. Besides that, in the last few years, synthesis and physicochemical studies of transition metal complexes with azo-based (-N=N-) ligands have been given a lot of interest by chemists because of their versatile applications in different fields such as textile industries [6], analytical and catalytical activity, optical technology [7], and biofuel cell cathodes [8,9]. Azo dyes are also used in coloring agents for the food and cosmetic industries [10]. Bidentate-substituted azo-

	Author: Mintu halder, College Libraries
74	Vol. 37 No. I March 2022 COLLEGE LIBRARIES
Publica	tion Trends in Library Herald and College Libraries: a bibliometric study during 2011-2020
	Mintu Halder
	Librarian, Bhairab Ganguly College, Belgharia, Kolkata
renowne	tent bibliometric study is based on the publication characteristics and trend of two d Indian Library Information Science (LIS) journals viz. Library Herald (LH) and Libraries (CL) during 2011 to 2020. The publiched 267 striples in L Heral 166 striples
The mos	Abstract
College I	Libraries (CL) during 2011 to 2020. The published 267 articles in LH and 166 articles d in CL during this study periods have been scanned to collect the bibliographical
details co	onsidering the factors such as year wise growth, authorship, collaboration, popular
	prolific institutions, geographical distribution, length and keywords. The study finds average authors per paper in LH were higher in comparison to the CL. The study also
	t in LH, total 350 authors contributed articles, of which maximum 289 authors shared 1 ch followed by 39 authors having 2 papers each. It has been found that out of 12 states,
the 212 a	uthors from West Bengal contributed majority of 159 articles followed by Delhi with
	es and Maharashtra with 27 articles. The study provides an insight in the publication f two official organs of two library associations in India. No extensive work has been
done on	this interesting topic earlier. The findings will be helpful for the LIS professionals as
	ssociations in identifying the publication trend of two potential journals that have long al history of scholarly publications in this field.
Keyword	ls: Bibliometrics, Bibliometric study, College Libraries, Library Herald, Publication

Keywords: Bibliometrics, Bibliometric study, College Libraries, Library Herald, Publication pattern



Author: Shrinwantu Raha, GeoJournal

Der Springer Link

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Published: 08 March 2022

Application of Analytic Hierarchy Process and weighted sum techniques for green tourism potential mapping in the Gangetic West Bengal, India

Shrinwantu Raha 🖂 & Shasanka Kumar Gayen

<u>GeoJournal</u> (2022) | <u>Cite this article</u> 293 Accesses | 3 Citations | 1 Altmetric | <u>Metrics</u>

Abstract

Green tourism is an emerging sustainable approach that needs to be implemented to manage environmental pollution in a particular region. Although the Gangetic West Bengal (GWB) is full of green tourism potential, the green tourism potentiality in this region has not been revealed yet. Therefore, the present research is focused on the delineation of the green tourism potential zone of the GWB using the Analytic Hierarchy Process (AHP) and weighted sum techniques. The whole methodology has been implemented here through a straightforward, concise, and multistep (5-steps) process, which removes the entanglement and intricacy of the traditional AHP technique. At the first step, nine thematic layers are prepared. In the second

Author: N. Banerjee, Advances in Bioresearch











SHAKESPEARE'S KALEIDOSCOPE: THE TROPE OF SHIFTING PERSPECTIVE IN HAMLET AND MACBETH

Manidip Chakraborty

Abstract: William Shakespeare's plays *Hamlet* and *Macbeth* exhibit an amazing experimentation with the trope of perspective. There are various thematic and structural devices that bind the two plays together, and simultaneously dissuade the audience from believing that Shakespeare was merely repeating himself. The author intentionally repeated the same plot-line perhaps to further explore the intricate issues such as the usurper king and the rightful owner of the (British?) throne. By shifting the perspective, Shakespeare has cleverly opened up the multiple possibilities of retelling the same story from different angles. By letting the 'voiceless' of one play speak out in the other one, the playwright has thus challenged the traditional concept of heroism in drama, and also introduced the fluidity of narrative.

Key Words: Perspective, Voice, Theme & Structure, Narrative.

The Tragedy of Hamlet, the Prince of Denmark, written by William Shakespeare sometime between 1599 and 1601, might have drawn upon the 13th century legend of Amleth, as well as Thomas Kyd's play known as Ur-Hamlet. (Hamlet, 8) The Tragedie of Macbeth, first performed perhaps in 1606, on the other hand, drew its material from the semihistorical account of Scotland as presented in Holinshed's Chronicles. (Macbeth, 13) The differences between the two plays are too obvious and numerous to mention. Yet on a number of thematic and structural grounds, as this current paper purports to establish, these two plays seem to be connected, if only seen through a fluid kind of viewpoint. A close study might even lead one to consider Hamlet and Macbeth as the Bard of Avon's daring experimentation with the prospect of perspective; with a kaleidoscopic shifting of the viewpoint, a single event might be bifurcated into two apparently distinct plot-lines resulting in two of the greatest plays ever produced.

One important factor that binds both the plays *Macbeth* and *Hamlet* together, alongside adding to the visual and psychological charm of the plays, is the presence of some preternatural existence which apparently shapes the course of events that follows. Hamlet being coerced by the Ghost to resort to the path of revenge in a way sanctions his very actions that seriously challenge the Christian codes of conduct. The metaphysical soliciting in a choric way transmits information to the avenger which is beyond the knowledge of any mortal being; barring Claudius, the supposed murderer. After a certain point (Act III, scene-iii, lines 36-38, to be precise, as Claudius confesses his crime in a



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soliloquy) it is proven before the audience that the Ghost did not lie indeed. (Hamlet, 183-4) The 'supernatural soliciting' that Macbeth receives, however, leaves a separate impact on Macbeth as well as on the events of the play. (Macbeth, 147) From Macbeth's perspective, the Witches' act of getting him a glimpse into 'the seeds of time' conflagrates his 'vaulting ambition' and eventually leads him to the act of regicide. (Macbeth, 167) There is no attempt on the part of the protagonist to refute the so-called 'prophecies' of the Witches, and he rather uses them as lame excuses to shield the unnatural deeds he has committed, and he continues to commit. If the act of murdering Duncan was something pre-designed by some metaphysical entities, then there should have been some justification for what Macbeth performs as an agent of Nemesis. But the Three Witches are not to be

Author: Manidip Chakraborty, Yearly Shakespeare

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INNOVATIVE RESEARCH (JETIR)

JOURNAL OF EMERGING TECHNOLOGIES AND

An International Scholarly Open Access, Peer-reviewed, Refereed Journal

UN-KNOWING THE KNOWN: THE SUBVERSIVE DYSTOPIAN NARRATIVE AND THE OTT PLATFORM

Manidip Chakraborty

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Abstract: Many independent film makers in India have opted for the OTT platform to launch their dystopian, anti-establishmen narratives, which would otherwise have never seen the daylight. As opposed to the mainstream movies, these dystopian stories exhibit the bold employment of the theories of Alienation Effect and Power-and-Discipline which would allow the viewers to better analyze the latent political allegory. The spatial-temporal detachment still manages to critique the contemporary government policies in an oblique way. The curious balancing of the familiar with the unfamiliar generates an element of terror, as to be found in works such as *Ghoul*, Leila and Ghost Stories. The trope of the dystopian lends these apparently subversive narratives an aesthetic excellence so that they can go beyond the trajectory of mere political agenda.

Key Words: OTT, political, dystopian, defamiliarization, alienation, surveillance, power

I.

Following the Indian Supreme Court's 2021 admission of a petition to pre-censor the video-streaming platforms (commonly known as To those give the top players), the Indian government is now all set to introduce broad content guidelines for OTTs. The natural consequence of this would surely be the curbing down of the freedom the OTT players have been enjoying since their very early days (Hotstar since 2015, and Netflix India and Amazon Prime Video since 2016). The employment of the dystopian frame has allowed (roosan since corr), and returns man and remove the other since 2019). The employment of the dysophan markers to try their hand in telling political stories on OTT platforms in a highly satisfactory aesthetic mould in recent past. The present article chiefly focuses on the 2018 Netflix mini-series *Ghoul*, Netflix TV Series *Leila* (2019), and the anthology movie *Ghost Stories* (or rather the Dibakar Banerjee directed short film in this 2020 film), to consider how the employment of the dystopian trope has turned them into by far the most overtly political narratives in recent times. To better understand the working of the dystopian trope on the OTT platform, various strategies related to the Verfremdungseffekt (or Distancing/Alienation/Estrangement Effect) and Michel Foucault's theory of Disciplinary Power have been employed and explored.

П. Discussion:

A dystopia is "an imagined world or society in which people lead wretched, dehumanized, fearful lives". (Merriam-Webster Etymologically speaking, the word dystopia takes its origin from the Greek word topos, which means "place" in Greek. This is crucia in understanding the way the word now gets contextualized, as the very notion of dystopia depends much on the process of

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defamiliarization and displacement. "Since dystopias reflect the zeitgeist of the historical periods in which they were produced, they must necessarily take on a variety of guises, and allowances must be made for variation across cultures and epochs." (Palardy 9) For example, the near future locale of *Ghoul* is unspecified, *Leila* is based in the land named Aryavarta in the late 2040s, *Cargo* (the 2019 Netflix science fiction movie) entirely takes place in an immigration office in space for dead people, and Dibakar Banerjee's short film in *Ghost Stories* is located in some fictitious Bees-Ghara. The non-specificity or the unknown aspect of the spatial dimension inevitably leads the viewers to expect the unexpected, the bizarre. These dystopian locales are hypothetical 'neverlands' featuring characters or statutions one should not be expecting to occur in the familiar settings. But therein in style beauty of the Kafkaesque 'one-fine-morning' start of a story in which the apparently logical takes the back seat, and the absurd gets foregrounded. The dystopia at its best is therefore a well-executed balancing of the unknown and the known.

This spatial detachment is integrally related with the Verfrendungseffekt or the Alienation Effect. The term Verfrendungseffekt is rooted in the Russian Formalist notion of the device of making strange, which literary critic Viktor Shkhovsky claims is the essence of all art. Indeed, the aforesaid Indian content-makers (the word 'film' seems to have lost its etymological context recently) take special care to create an alienated spatio-temporal zone. This purports to let the viewer (the singular better suits the current mode of watching such contents) detach her/himself from the familiar domains and focus on the new territories presented in the narratives. For instance, the zonbie-land called Bees-Ghara that Dibakar Banerjee presents in his short film in the anthology *flost Stories* is a scathing commentary on the practice of sectarian violence based on caste, while making some oblique references to the pathetic education system in the heart of rural India. A more traditional movie like Article 15 (2019), that critiques the strong hold of casteism on the general outlook of people in the UP, has been expectedly subjected to the wrath of the Censor Board. Banerjee's smart infusion of the abard, Kafkaesque scenario of people (supposedly smitten by caste-based violence) getting dehumanized into a zombie-cum-monkey like entity would metaphorically say all thas to say, and yet escape the blows of censure. To further ensure the technical security of the film-makers, the director has made use of a frame narrative – the protagonist seems to have 'seen' the entire thing in a dram. The strange interplay of knowing and not-knowing however persists even at the closure, as the protagonist encounters the same individuals as he wakes up, although they have presently reverted back to their 'human' selves. The film ends with a sense of confusion and doubt regarding the 'inhuman' selves of these people; was that merely a vision, or the naked reality lying beneath? This spatial detachment is integrally related with the Verfremdungseffekt or the Alienation Effect. The term Verfremdungseffekt is

Leila and Ghoul might be considered as fine dystopian narratives on the account of a series of criteria enumerated by Diana Q. Palardy in her authoritative book titled the Dystopian Imagination in Contemporary Spanish Literature and Film. (Palardy 10-11) To mention a few of them, both the stories present a hypothetical society that 'might be'; almost all the individuals in the stories are oppressed (by the State?) in one way or other, even though they may not be aware of it; systematic, sociopolitical problems are indeed responsible for the sectarian violence meted out to various characters; one encounters deliberately planned societies meant to keep under surveillance all

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