

# SA THAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University Belagavi & Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghat fain Road, Bengaluru- 560 057.

3.3.2 Number Of Research Papers Published In The Journals Notified On UGC Website During the Year

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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Index
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Situation Analysis of Load Shedding and its	Raghavendr	¥	International Journal of Applied	,		UGC
Effectiveness in the Area of Power System Security	a	EEE	Engineering Research	May-16	0973-4562	Earlier

International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 20 (2018) pp. 14561-14565 © Research India Publications. http://www.ripublication.com

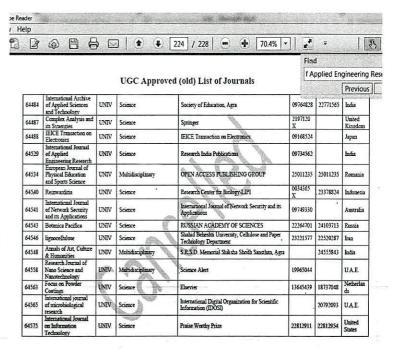
# Situation Analysis of Load Shedding and its Effectiveness in the Area of **Power System Security**

Raghu.C.N<sup>1</sup>, G.Raghavendra<sup>2</sup>, Doddabasappa N<sup>3</sup>, Anil Kumar D B<sup>4</sup>

1,2,3,4 Assistant Professor, School of Electrical and Electronics Engineering, REVA University, Bengaluru, Karnataka-560064, India.

With the hasty growth of the power system to impact increased consumer demand and with more inflexible economic and ecological boundaries, power systems become more composite and severely stressed. Subsequently, system extensive disturbances which lead to the disturbance of voltage and frequency stability which is a critical threat to the power system security. The frequency and voltage instability may lead to the blackout and severely damages the power system gadgets. This upturns the significance of instigating a protection scheme that conserves the system stability. The ultimate procedure prevents the occurrence of a system collapse incident is the functioning of a load shedding scheme. These paper emphases on the overview of the UFLS and UVLS scheme. This paper performs the situational analysis of the existing load shedding scheme. And reassessments some of the frequently adopted techniques along with the brief discussion of the existing scheme to extract the research gap in shedding are the location of load shedding, amount of shedding load, and time of load shedding. Consequently to avoid post contingency problems, detecting the location of the buses for load shedding must be determined based upon the load significance, curtailment cost and the distance of the curtailed load to the contingency location[3].

Basically, the load shedding scheme is categorized into Under frequency Load shedding (UFLS) and Under voltage load shedding (UVLS). As previously stated, when a power system distraction creates active power imbalance, consequential causes in a frequency deterioration and emergency action such as UFLS may be enforced. If system frequency decline further than the given threshold, for a short amount of time, power stations may trip off causing additional load imbalance which may lead to a power system collapse [4,5]. To prevent massive voltage collapse due to the occurrence of desperate inadequacy in reactive power reserves, power utilities designate Under voltage load shedding(UVLS) because it is an economical



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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Index
A study on the groundwater of Peenya industrial area						
and its related elements in Bengaluru region of	Blessy Baby		Environmental & Socio-economic		0	
Karnataka State, India	Mathew	BT	Studies	Jun-18	15577929	Scopus



## **Environmental & Socio-economic Studies**

DOI: 10.2478/environ-2018-0009

Environ. Socio.-econ. Stud., 2018, 6, 2: 1-12

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Original article

A study on the groundwater of Peenya industrial area and its related elements in Bengaluru region of Karnataka State, India

## Blessy Baby Mathew\*, Nideghatta Beeregowda Kirshnamurthy

Department of Biotechnology, Sapthagiri College of Engineering, Bengalauru-560057, Karnataka, India E-mail address (\*corresponding author): blessym21@amail.com

## ABSTRACT

Groundwater samples were collected from the Peenya Industrial area of Bengaluru, India to test its quality, elemental composition and inherent bacterial population. Further analysis was done using GIS Based Geostatistical techniques to study the level of groundwater and to generate various maps of lineament, digital elevation, geomorphology, soil crosson, salt affected areas and water logging in this region. Physical and chemical parameter such as Total Dissolved Solids, pH, temperature, BOD, COD, metal ions present in the water samples were studied along with predominant microbial constituents. The Total Dissolved Solids and Total Hardness were far beyond the maximum concentration levels. Further analysis of the isolated bacteria was done using staining methods and biochemical tests. The results obtained showed that the area under study had wells ranging from shallow to deep heights of 30 to 80 meters, with a wide variety of 10-400 LPM; whereas the lineament map suggested that the area was bound with parallel ridges and joints. The geographical data represented pediplain complexes, anthropogenic terrains and water bodies. The area was found to go through a seasonal water logging and the soil loss was due to sheet erosion and rill crosion. It was also observed that the groundwater was contaminated with heavy metals such as lead, chromium etc. along with a diversified bacterial population.

KEY WORDS: industrial area groundwater; GIS; heavy metals; groundwater contaminants

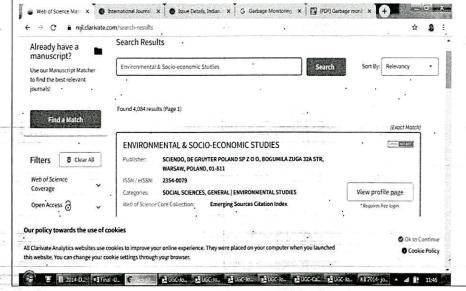
ARTICLE HISTORY: received 10 February 2018; received in revised form 21 May 2018; accepted 27 May 2018

## 1. Introduction

Groundwater contributes to about eighty percent of the drinking water requirements in rural areas, fifty percent of urban water requirements and more than fifty percent of the irrigation requirements of the nation, but due to rapid industrialization and population explosion the groundwater quality and quantity have been significantly affected and overexploited (JAISHANKAR ET AL., 2014; MATHEW ET AL., 2016), 90% of the rural and 30% of the urban population depends upon groundwater for their domestic requirements (SHAH ET AL., 2003). This has led to an overwhelming rise in the research related to groundwater statistics, composition, quality aspects, recharge—discharge relationship and its resource potential.

This study is from III and IV phase of Peenya industrial area from the state of Karnataka that is

situated between 13.0308 and 13.0151 latitude besides 77.5060 and 77.5225 longitude with a total geographical area of 191791 km2. Physiographically the state is divided into four regions having northern and southern plains, a western coastline and hilly areas. The elevation varies from 200 to 1900 meters above sea level and each region has a distinct climate that receives more than 250 cm of rainfall annually, but the rate of drawing water is more than that recharged each year. The groundwater condition in all four taluks of Bengaluru Urban district is deteriorating, Karnataka '. stands to have over-utilized 70% of its groundwater, out of which only less than 1% is fit for drinking according to the latest reports by the ministry of water resources (SHANKAB ET Al., 2008; JEROME & PHUS, 2010). The defilement of groundwater has occurred over the years and the contaminants are mainly heavy metals, microles most commonly



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Growing greens on wall structures using waste water			International Journal of Management			
and biofilter	Chandra S	Civil	Technology and Engineering	May-17	22497455	

International Journal of Management, Technology And Engineering

ISSN NO : 2249-7455

## GROWING GREENS ON WALL STRUCTURES USING WASTE WATER AND BIOFILTER

Mahadeva M1, Rajiv T2, Sugath Chandra S3

Assistant Professor<sup>1</sup>, Department of Civil Engineering, RNS Institute of Technology, Bengaluru (India). Assistant Professor<sup>2</sup>, Department of Civil Engineering, Sapthagiri College of Engineering, Bengaluru (India)

U.G. Student, Department of Civil Engineering, Sambhram Institute of technology, Bengaluru (India)

## ABSTRACT

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The developing and developed nations witnessing urbanization in global wides. As that results its facing many changes and many of problems can be seen in citiy limits as the nation's grows,the over population, drinking and domestic water supply, solid wastes, housing, food, pollution, clean fresh air, good nature etcetera. Our surrounded concrete world is really needed of some spacing gardens near to housing, but due to lack of space within or in-between in the houses it can not be possible for many people. To overcome this problem, the green walls or vertical gardens are the simple technic. The growing of greens on walls or on roofs are possible by adopting some special technical design. By adopting of this green walls we can have the many uses, like getting fresh air near to our presence, we can grow of good, organic and fresh vegetables and fruits, we can also decorate our walls and buildings by growing greens on it. Here the growing of the greens on the walls is not only the concept, rather than that growing of this greens by using the waste water of the same house. Yes, this waste water which is leaved simple to sewage are to be prevented by adopting this method. And also the main other problem like waste water which is leaving to rivers or lakes, which is made to be the water treatment is done easily as basic treatmentinfiltration pass through the planter boxes. This same water which is filtered treated water can be leave to rivers or any other place, or it can be reused for the domestic purposes, the water recycling also be done by this method. The single modulation of design can achieve the many uses by the green wall project. To over come the many problems urbanization this will be give good results and holds good stand.

Key words: Green walls, Biofilter, Water recycle system, planter box.

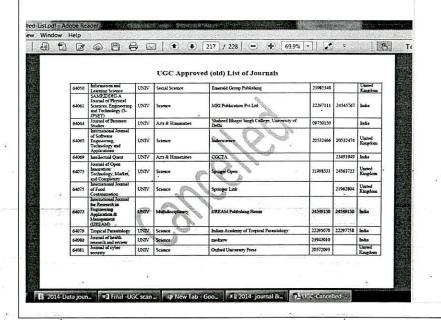
## INTRODUCTION

A 'Green Wall', also commonly referred to as a 'Vertical Garden', is a descriptive term that is used to refer to all forms of vegetated wall surfaces. In our planet plants have served humanity since the dawn of time, supplying food, clothing, building materials and a host of other goods. With the advent of the modern industrial city, now home to more than half of the world's population, planners, designers and urban advocates are once again turning to plants - green infrastructure - as a key strategy to provide cleaner air and water, while improving living environments, human health and mental well-being. The integration of the living, organic systems characterized by green walls and green roofs, with the

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Experimental investigation on dairy scum biodisel on			International Journal for Research in			
CI DI Engine perferomance and pollutant		=	Engineering Application &	*		
characteristics at different injection pressures	Tilak SR	ME	Management (IJREAM)	Oct-18	24549150	





International Journal for Research in Engineering Application & Management (LJREAM)

ISSN 2354-9150 Vol. 10 Vo

## Experimental investigation on dairy scum biodiesel on CI DI Engine Performance and pollutant Characteristics at different injection pressures

Tilak,S.R. Assistant Professor, Sapthagiri college of engineering, Bengaluru, Karnataka, India, tilaksr.raghunath@gmail.com.

K.Chandrashekara, Professor, Sri Jayachamarajendra College of Engineering, Mysuru, Karnataka, India, dr.chandrusjce@gmail.com.

H. Yogish, Associate Professor, Sri Jayachamarajendra College of Engineering, Mysuru, Karnataka, India, by.sjce@gmail.com.

S V Channapattana, Professor, D Y Patil College of Engineering, Ambi, Talegaon Dabhade, Pune, India, shylesha@gmail.com.

Abstract - The aim of the present investigation is to extract the biodiesel from dairy scum oil and to evaluate the performance and emission parameters with standard diesel fuel. Dairy scum oil is treated with an adequate measure of CH3OH which required and quantity of sodium hydroxide as a catalyst which is accessible in bio-chemical laboratories. Transesterification process was adopted to produce biodiesel under an optimized-reaction temperature of 60 °C, the reaction time of 85 minutes, the quantity of methanol to oil ratio (1:3), the concentration of sodium hydroxide (0.6% v/v). Experimental investigation were conducted in CI DI engine to check the performance and pollutant characteristics of methyl esters of dairy seum oil by varying the injection pressures as 160 bar, 180 bar, and 200 bar. The essential performance parameters such as specific fuel consumption, BTE and emission parameters such as CO. CO, HC, NOx are found out and contrasted the results of biodiesel with the regular diesel fuel. The dairy scum biodiesel can be used as an alternative fuel and the properties obtained were within the ASTM standards.

Keywords: Biodiesel, Dairy scum oil, Diesel engine . Emission, Performance, Transesterification.

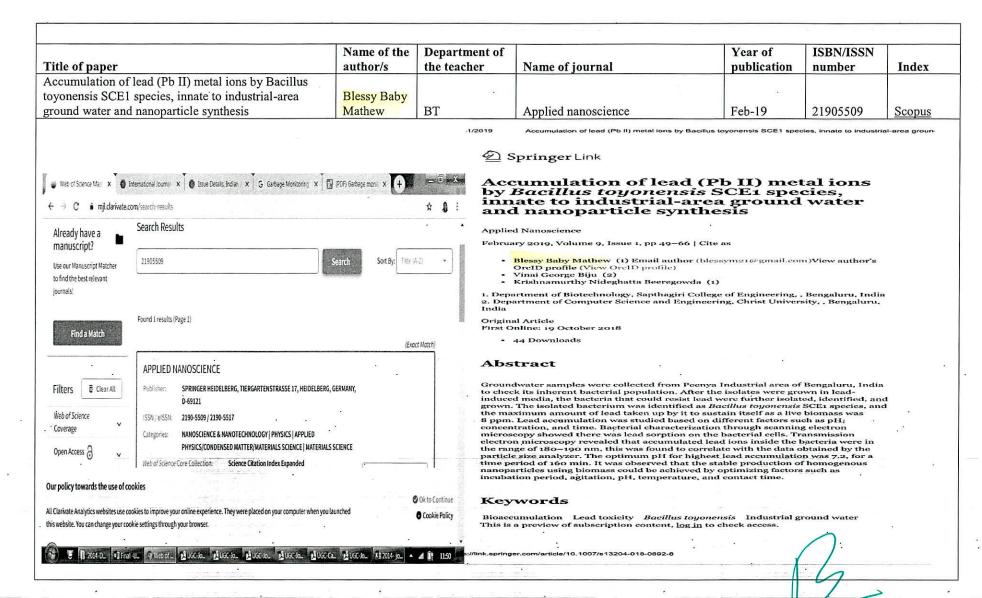
The trends in global energy consumption surveys depict that a main chunk of overall energy consumed is obtained from combustion of fossil fuels. Predominantly among fossil fuels, liquid petroleum-based fuels contribute significantly due to their distinct physico-chemical and combustion properties. But, the major concern here is liquid fuel reserves are limited and may exhaust any time, and their economic utilization is the fact bothering all researchers [1, 2]. Biodiesel is a renewable fuel obtained from animal fat or vegetable oil through a complex chemical process and can be employed as any direct substitute, extender or as an improver to fossil diesel fuel in CI engines [3]. The important factor is that biodiesel fuel could be directly used in existing automobile engines with a minute or no hardware modifications in engine design. These biodiesels are produced through a chemical of animal fat or vegetable oils with methanol/ethanol in the occurrence of a catalytic agent to make glycerol as a main byproduct [4-8]. Biodiesel name is methyl or ethyl ester. Sivakumar et al.

[9] used dairy scum oil with an alkali-catalyzed transesterification process to produce biodiesel of waste dairy scum oil by using gas chromatography, test and obtained maximum biodiesel yield of 96,7% by using 6:1 molar ratio, KOH of 1.2% wt at a stirring speed of 350 rpm, 30minutes of reaction time and a reaction temperature of 75 °C.The measured physicochemical properties are within the ASTM standards. Banapurmath et al. [10] BTE for methyl esters of pongamia oil, sesame oil jatropha oil, and conventional diesel fuel was 29.51%, 30.4% and 29% and 31.25%.Emissions for HC and CO were more than that of traditional diesel fuel. Canakci et al. [11] by using the methyl esters of canola oil and waste palm oil, the brake power lowered by 4% to 5%, BSFC increased by 9% to 10%. Emissions such as THC 17% to 26% depressed, CO2 reduced by 5% to 8%, smoke opacity reduced by fifty-six to sixty-three percentage, NOx increased by eleven to twenty-two percentage over conventional diesel fuel. Buyukkaya et al. [12] concluded that by using rapeseed biodiesel blends there was a reduction in peak pressure by 55 bar, maximum HRR reduction by 14%, IDT (ignition delay time) found to be a

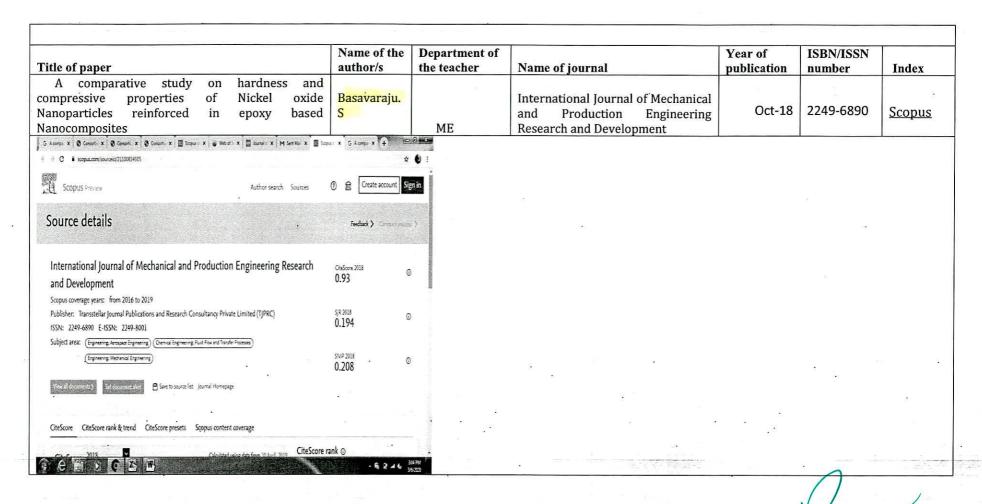
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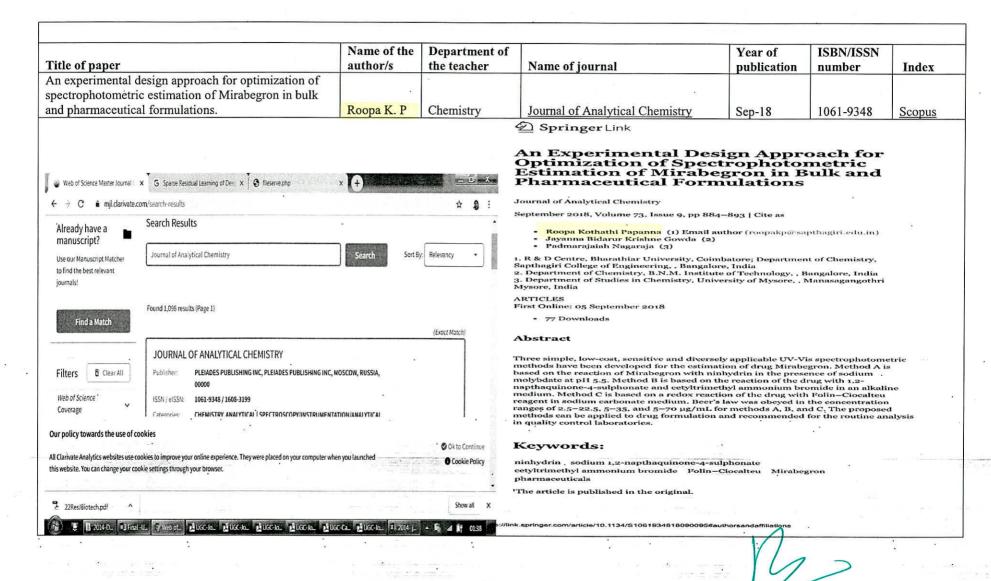
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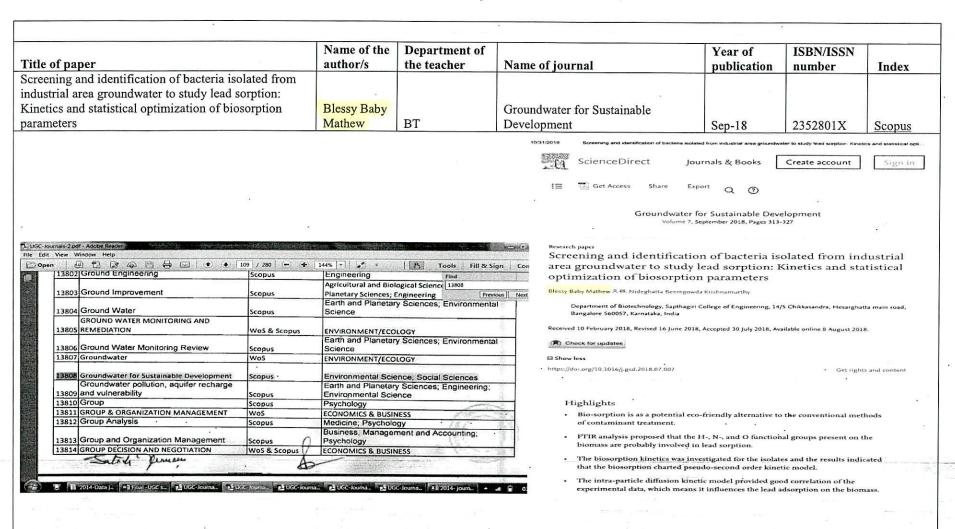
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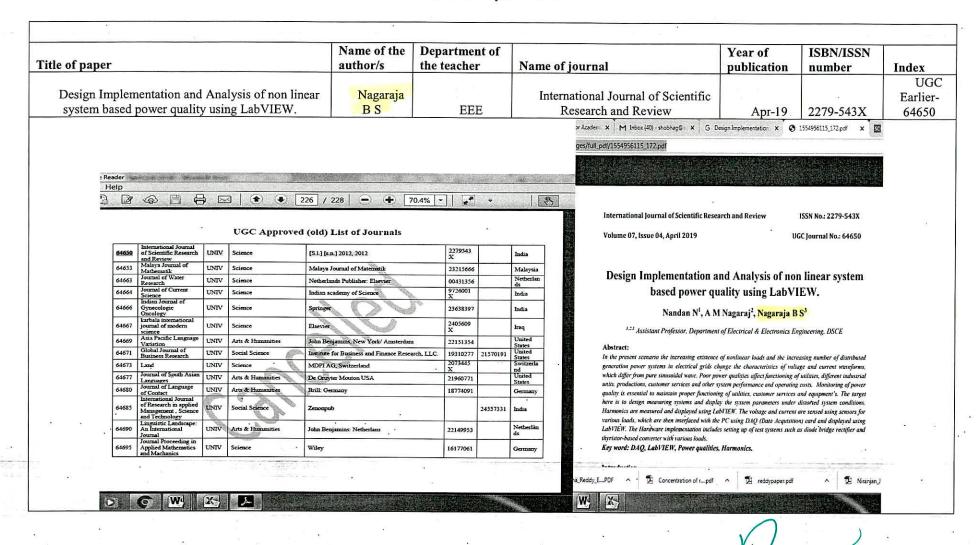


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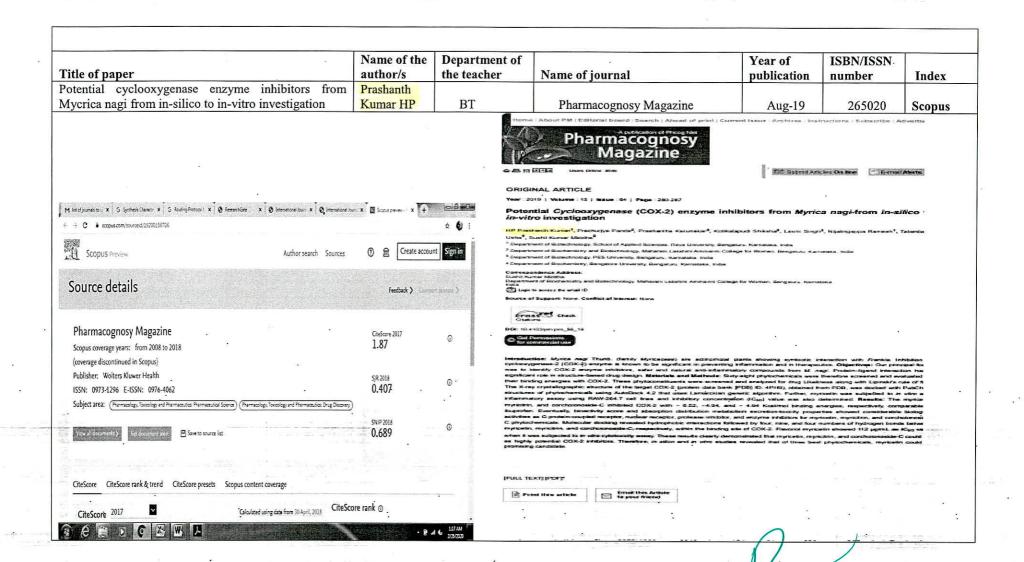








Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Inde
A novel optimization approach for solving optimal load hedding problem considering different voltage			International journal of scentific ar	-0000 At 100 At	perancipa peranci	8
tability indices	Ragavendra	EEE	technology research	Aug-19	22778616	Scopus
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International Journal of Scientific and Technology Research Scopus coverage years: from 2018 to 2019 Publisher: International Journal of Scientific and Technology Research E-ISSN: 2277-8616 Subject area: (Easien, Maragement of Reducing Maragement of Technology and Innocation) (Engineering General Engineering)		entire power special control of c	system is operating extremely flear to their stricts and the stability indices as a constraint in the liton increases its robustness against voltage the liton increases its robustness against voltage. So did not strict the stricts and the stricts of the world. The optimal load shedding problem of the world. The optimal load shedding problem of the world. The optimal load shedding problem of the many types of research with various OLS is a powerful load for restoring stability after shance in the power network. In order to sohe the many computational inselligence beniques on the C. N. [1] in their work have conducted an use of the conducted and the cond	DOMG.  Problem formulation.  or a certain situation like in and and sudden loss of gr traints are violated. Un- miled to restore system stable in the optimized OLS many a employed which are cap- and solution for the load she act that the location of load  act that the scatter of load  or office of the location of load  or office of the location of load  that the location of load  act office of the location of load  in	emeration some of the; of the constitution of	system  bes to i to be  days to  niques st and  wiew of  clency itability  te the  sed by  of the
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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Index
Routing Protocol for Clustered Bee-Ad Hoc MANETS	Sasmita		International Journal of Innovative Technology and Exploring			
with Proper node Utilization	Mohapatra	EC	Engineering	Aug-19	22783075	Scopus

International Journal of Innovative Technology and Exploring Engineering (LITEE) ISSN: 2278-3075, Volume-8 Issue-10, August 2019

## Routing Protocol for Clustered Bee-Ad Hoc MANETS with Proper node Utilization

Abstract: Making MANITs energy efficient has been a higgest challenge from many years. In this engard in the previous weeks carriing presenteeth have been intenduced for stabilized clustering schoene mits unusus intelligence where the MANITs are made energy efficient with well belanced multiplicable multiplicat greateneds energy efficient with well belanced multiplicable multiplicating prostocks many to left without any consideration in the clusters of the neades overlapping where there is a probability that some of the neades may be left without any consideration in the clusters of MANIT as mades are highly dynamic in neutron. There makes usually do not belong to any of the clusters thus cannot take part in the reusing process unifous cluster splitting takes place. In that core containing errors under the process of MANIT and the cluster with the process of the reusing process unifous clusters splitting takes place. In that core containing from the containing process of the process of the processor of the processor of particular and processor of the processor of the processor of particular and processor of the part in a new of making processors or failure. For this a newed clustering nod containing processors who have been internated in the proper whose not only all the we missenters as one-sisting NS-2 simulation. Index Terms: Energy-efficient, MANET, Chanceling, ion-overlapping, Node-utilization, Stable.

## L INTRODUCTION

Highlight a section that you want to designate with a cirtain Mobile Adilice Networks (MANETs) are self organized structures which are very important for any wireless communication structure starting from home to defense. As communication structure starting from home to defense. As MANETs are not fixed to any preapproved structure [11, [2]] so they can have many applications. In the previous work in [3], [4] routing processes have been introduced where swarm intelligence with proper cluster maintenance scheme has been introduced soft on souting in MANET. For further improvement in [5], [6], [7] subcrites have been attroduced where the routing process is made multi path and smore energy efficient and well balanced their reliental clustered MANET structure. It is not shown to be a subcomment of the structure of the s strongue. A consist with CC111 me seen secrece in its re-from source to destination and also carries buffering the data in the above proposed routing algorithms the closures of MANIET are considered which are now overlapping. But in all the cases while doing clustering there is a probability that some of the nuderan left which could not be considered in any of the ciusters as nodes are highly dynamic in any MANET structure. These nodes can also carry certain information or can help in the routing process. But proper node utilization can't be done as some of the nodes may no get a memberably in first pager or seems in any of the chaster since they full so have minimum required residual energy or received signal strength unless cluster applicing takes place.

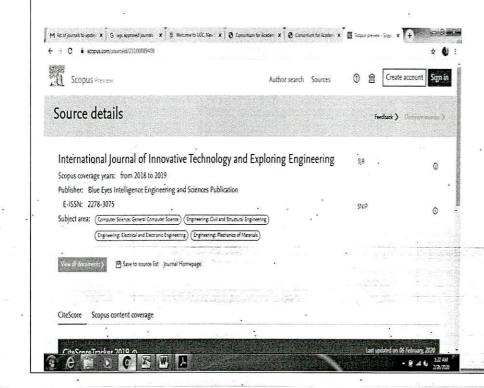
This problems can be come over if the cheaters are made to be overlapping. Where the distance between such kind of node and CH reduces and no doubt that node can get cluster member identity. But this leads to a problem where the number of clusters encreases rapidly and it affects the overall efficiency of the MANET structure since with increase in number of clusters the system becomes unstable where the rapid movement or failure of any sade has to be always taken care to robust the experiments. Also by this more updation of the rapid movement or failure of any sade has to be always taken care to robust the description. As a solution to the above more of the hand resource. As a solution to the above more of the hand resource. As a solution to the above to the short of the solution of the particular of the solution of th actionse as per [9]. To take care of the above padgorithm has been introduced where-

- Care has been taken so that all the newly joining nodes should be at least declared as claster member of any one claster where a new identity is given to such kind of nodes as "cluster guest".

  In this way all the nodes in any MANET structure can
- take participation in the routing process may be directly or indirectly.
- The overlapping node concept is overruled by which the MANET is made more efficient.
- By avoiding the overlapping classer concept the CHI changing frequency has been reduced which increases the stability of the system.

In the previous work carried out several steps has been taken In the previous work carried out several steps has been taken so that the routing produced in the MANET can be made very-much energy efficient. In this regard in [3] bee inspired routing along with clustering is selected as the best routing process for MANET where each of the modes according to their resultant energy and received signal strength are given been received by the manufacture of the modes according to their resultant energy and received signal strength are given and acousts. Here the complete MANET structure is devisted isso clusters. In [4] care has been taken for the stability of the clustering scheme where the change in the CH is reduced by introducing stable cluster maintenance scheme.





Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Index
nvitro cytotoxicity study of green synthesized copper				1		
nanoparticles	Shobha G	BT	Research journal of biotechnology	Aug-19	22784535	Scopus

Research Journal of Biotechnology

Vol. 14 (8) August (2019)

## In Vitro Cytotoxicity Study of Green Synthesized Copper Nanoparticles

Shobha G.\*, Sagar S.\*, Shushidhara K.S.\*, Vishwaprakush Mahadimane\* and Ananda S.\*

1. Department of Biotechnology, Sagthaget College of Engineering, Bangakee 500057, INDIA

2. Department of Grochies and Phitt Binding, College of Agriculture of Heann v. 173225. University of Agricultural Sciences (Despathant, INDIA

3. Department of Applied Zoology, Alou Center for Food Graduate Studies and Rocarch, Mondbairt, Dickston Konzendi, INDIA

## Abstract

In our earlier study, we reported the green synthesis of copper nanoparticles with antimicrobial activity. Here we report the cytotoxicity and genotoxicity potency of the green synthesized copper nanoparticles on cancer cells MCF-7. The different cell lines experimental results in our study have shown that the cells morphology changed significantly for cancer lines MCF-7 upon treatment with copper nanoparticles and ICsadose for MCF-7 cells was found to be 1.71 µg ml 1 by MTT assay. At this concentration, copper nanoparticles had shown no estotoxicits effect on normal cell line (3T3L1). The dual staining (Acridine orange/Ethidium Bromide) showed various degrees of accumulation of nanoparticles by apoptotic tumour cells with increasing concentration of copper nanoparticles

The comet assay and DNA fragmentation assay by gel electrophoresis on cancer cell line MCF-7 showed the chromosomal condensation and fragmentation of DNA after treatment with the copper nanoparticles.

Keywords: Copper nanoparticle, Comet assay, DNA fragmentation, MTT assay, Tumour cells.

## Introduction

Every organism on the earth continuously encounters nanometer-sized entities in day to day activities. The vast majority of them cause little negative effect and go unnoticed, but occasionally they will cause significant amount of harm to the organism.

Very small particles, called nanoparticles, have the ability to enter and translocate within the body and damage the living organisms. This ability results primarily from their small size which allows them to enter through physiological barriers and travel within the circulatory systems of the bost organism. The natural processes have produced nanoparticles for cons, however the modern science has recently learned how to synthesize a large array of artificial materials engineered at the atomic scale

The smallest particles contain tens or handreds of atoms with dimensions at the scale of nanometers - hence nanoparticles. They are comparable to viruses in size where the smallest have the dimensions of tens of nanometers (for example

HIV is 100 nm in diameter). Like viruses, some nanoparticles can penetrate lung or dermal (skin) harriers and enter the circulatory and lymphatic systems of humans and animals and vastly disrupting cellular processes and may cause some types of diseases. The toxicity of each of these materials depends greatly upon the particular arrangement of its many atoms.2

With consideration of all the possible shape and chemistry of the smallest nanoparticles, they can yield a buse number of distinct materials with potentially very different physical, chemical and toxicological properties. A good example of a toxic nanomaterial is asbestos which causes lung cancer and other diseases.1.4 Asbestos exists in several forms with slight variations at shape and chemistry yet significantly varying toxicity levels.

Recent advances in ranotechnology have impacted industries including manufacturing, biomedical applications, electronics/telecommunications, agriculture and renewable energy among others.5 Because the numotechnology is a recent development, the health and safety effects of exposures to nanomaterials and what levels of exposure may be acceptable, is not yet fully understood Typical nanoparticles that have been studied are titanium dioxide, alumina, zinc oxide, carbon black, carbon nanotubes and buck minster fullerene.

In spite of the immense advance in sunotechnologies, the potential toxicity of nanoparticles has not been well understood.<sup>6</sup> Various in-vitro examinations have been performed to evaluate the toxicity of a few nanoparticles using different assays. Few ramoparticles can be able to produce free radicals even under dark conditions which have attributed to surface defects bringing about increment in surface reactivity. In this perspective, it becomes necessary that the toxicity of nanoparticles has to be studied extensively in both an viero and in vivo.

Metallic nanoparticles in recent days have gained great importance because of their high surface to volume ratio with small dimension. Metal exide nanopacticles (NPs) have drawn extensive interest because of their enhanced properties, unprecedented performance, life cycle cost and restingly vast appropriatoness in different industrial fields and biomedical applications.7 Predominantly copper metal nanoparticles are right now under scrutiny because of their pertinence in different fields, for example, gas sensors, cutalysis, butteries, high-temperature superconductors and field outflow producers, agribusiness as it is around 10 fold

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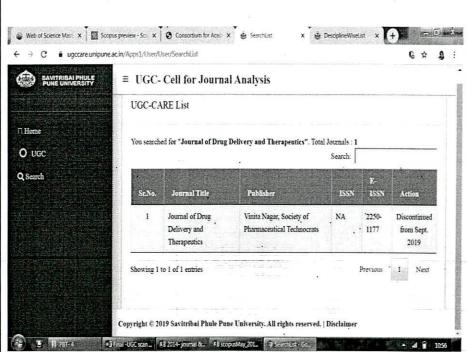
Sapthagiri College of Engineering Chikkasandra, Hesaraghatta Road, Bangalore-560 057

Keywords: Copper nanopartigle, Comet assay, DNA

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Assessment of pathogenicity in helminthosporium naydis causing southern corn leaf blight disease in the egion of karnataka	Sowmya C	ВТ	Journal of Drug Delivery and Therapeutics	Jul-19	2250177	UGC CARE



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Available online on 15.07.2019 at http://jddtonline.info



## Journal of Drug Delivery and Therapeutics

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Assessment of Pathogenicity in Helminthosporium maydis causing Southern Corn Leaf Blight Disease in the Region of Karnataka

. Department of fliotechnology, Sapthagiri College of Engineering, Bangalore, Karnataka, India-560057

Department of Higinformatics and Biotechnology, Kuvempu University, Shankaraghatta. Karnalaka, India-577451

Make (Zer moy L) is the one of the most beneficial crops, adapted to various ecological and climatic states, it grades third after whoat and rice, the state of the last liew years under the leadership of All India Coordinated Make Improvement Project, 15 out of 61 diseases barmidily affecting this crops are considered to the state of the last liew years under the leadership of All India Coordinated Make Improvement Project, 15 out of 61 diseases barmidily affecting this crops are considered with the constitution of the India Coordinate of India Coordinate Ordinate of the India Coordinate of India Coordinate of the India Coordinate of India Coordinate Ordinate of India Coordinate of India Coordinate Ordinate of India Coordinate of India Coordinate Ordinate of India Coordinate Ordinate Ordinate Ordinate of India Coordinate Ordinate O

Keywords: Survey, Pathogenicity, Extraction, Host specific Toxin, Southern Corn Leaf Blight.



Article Info: Received 11 May 2019; Review Completed 15 June 2019; Accepted 24 June 2019; Available online 15 July 2019

Cite this article as:

Simmys C. Ramachandra V. Assessment of Pathigamicity in Helmonthisporium migdls causing Southern Corn Leaf Bighs

Simmys C. Ramachandra V. Assessment of Pathigamicity in Helmonthisporium migdls causing Southern Corn Leaf Bighs

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ent of Biotechnology, Sapthagiri College of Engineering, Bangalore, Karnataka, India-560057

## INTRODUCTION

INTRODUCTION
Southern Corn Leaf Blight (SCLB) caused by #t mayets: This disease primarily develops serious effect to maize, plant with the property of the pro

Sorghum.

In India, SCLB has now turned out to be not unserious disease especially in, Himachal Pradesh, Meghalaya, Andhra Pradesh, Punjab, Haryana, UP, Jammu and Kashmir, Bihar, MP, Sikkim Gujarat, Delhi, Maharashtra, Karnataka, Tamil Nadia and Rejauthan. The disease is major in warm Sadia and Rejauthan. The disease is major in warm that the second of the second of the second of the second of a probasiness due to tis commendations in 1970 in US and consequential pulverization of a large portion of the corn edit that year, it will be in general constrained by temperature and atmosphere to the warmer pares of the US.

Formation spire is affected by temperature 2. Infected tissues are broadly secured with spots and chlorosis advanced suppophytic capacity and subsequently high vital inoculum level will almost certainly be found in zones with great infection event. SCLB infection causes the critical yield germplasm profitable from 9.7% to 11.7% rely on the climate conditions.

In SCLB, there are existence of two races of *II. maydis*, one is race 0 and another race T, are in responsibility of causing this disease in Pakistan, while race C has been accounted in China. In 1970's a pertilence caused By race T type in maize which consists of Texas male sterrile germplasm in most matter emerging zones of the USA however maize with ordinary cytoplasm was resistant to the pathogen.

bruinary cytopiasm was resistant to the patiogen's.

Pathogenicity assay can be led by a method of Virulence test.

These approaches are significant resources to scrutinize consequently. To attack and the termique advances is consequently. To attack and a second participation of the pation of the pation of the pation of the pation includes the inoculation of fungl by dispersal or pouring its spores or mycella fragments'on a live maize leaves. Or else.

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A penalty based self-adaptive harmony search	Raghavendr		International journal of engineering			
algorithm for optimal load shedding	a G	EEE	and advanced technology	Jun-19	22498958	Scopus

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International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958, Volume-8 Issue-5, June 2019

## A Penalty based Self Adaptive Harmony Search Algorithm for Optimal Load Shedding

Raghu C N, A. Manjunatha, G Raghavendra

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Abstract. In this paper, a moved method is introduced as would the blockward of process year water when the introduced with the princip based A new load shed selvante is introduced with the princip based chaice to decide the amount of load to be shed at each bus in the system. The priorities are assigned based on the voltage drap after system. The priorities are assigned based on the voltage drap after system, the priorities are assigned based on the though a decide of the district of the shed. The determine the aprimal amounts of the load to be shed. The determine the aprimal amounts of the load to be shed. The MATPOWER solves is used to solve the power from equation. The MATPOWER solves is used to solve the power for equation. The amount method is analyzed on tEEE-1-4 in IEEE-14 but to the solventing methods. The amount expected whe which are fore than the existing methods. The amount expected whether are the than the existing methods. The amount exercise compared to the existing. The range of hus voltage scing schered in IEEE-14 bit 10 parts 1.06 Jpn. The active and enactive names as applied before and after the generation loss, is computed out to the long extended in the voltage is presented after designing the new load using 18-48%. The results abundand with the importance in the base voltage is presented after designing the new load using 18-48%. The results abundand with the processing methods. Convergence, characteristics also show that the efficiency of the results abundance of the convergence characteristics.

## I. INTRODUCTION

Ower system security is one of the important factors to be maintained during the biperation of a network. It is ability of he system to operate within the limits without actually eaching the state of emergency. However, in the actual countrie, it is not possible to operate within the limit always countrie, it is not possible to operate within the limit always experition, increase in load demand. In such a situation, the system constraints are violated, and the system goes out of he operational limits. During this disturbance to bring the system backs into the stable state, there has to be the nechanism to adjust the factors driving the security of the mechanism to deal with such contrigency situations or disturbances to control the security and stability of the system. But it is not always possible to achieve this with the built-in but it is not always possible to achieve this with the built-in-tuit it is not always possible to achieve this with the built-in-definition of the built in the property of avoiding of omplete blackout in the system. In the view of avoiding omplete black out, optimal load shedding is used as the last-pution and may be considered as the emergency option. Load

shedding involves removal or reduction of certain amount of load from the connected load to that power system returns to disad from the connected load to that power system returns to shedding in to curtail or reduction of the load in such a way that difference between the supplied active/real) and reactive power is reduced. When formulating the network behaviour with a mahematical model the active and reactive powers are analysis and connected active/real) and reactive powers are analysis. The supplied active power are reduced. When formulating the network behaviour with a mahematical model the active and reactive powers are analysis. The supplied is a function of the bus voltage. Basically, the load shedding scheme is categorized into Under frequency Load shedding (UFLS) and Under voltage load shedding (UFLS) and Under voltage load shedding (UFLS). When the power system experiences in frequency does not be supplied to be required to be adjusted to bring the power system back into the balanced state can be designed by measuring the voltage drop or frequency drop. The load shedding mechanism is triggered in a power system when the bas voltages or the Raghu (2017) in their work have conducted an exhaustive study on research towards methods adopted for load shedding in power system such as Genetic Algorithms (GA). Simulated Annealing (SA), Tabu Search (TA), Ant colony optimization (PSO), Artificial Bee Colony (ABC), Maximum Loading Point (MLP), Backtracking search algorithm, Rizzy logic, Artificial Bee Colony (ABC), Maximum Loading Point (MLP), Backtracking search algorithm, Rizzy logic, Artificial Neural Network, Shuffled freg leaping algorithm (SFLA) and Harmony Search (HS). Empirical approach, In this paper, ISAM is simplemented in [2]. HS is similar to the PSO in the sense that it also focuses on the music improvisation process. A musican generates a tone and if the tone generated is better than the previous one, musician heeps on searching for the better state of humany in finding the best musically, pleasing

derivatives in the search algorithm. Compared to GA, which generates a new vector considering only two parent vectors, HS considers all the existing vectors. HS produces the solutions much faster than other

heuristic algorithms as this is very key to prevent the back

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Index
Relevance vector machine based facult classification in			International Journal of Electrical and			
wind energy conversion system	Rekha SN	EEE	Computer Engineering	Jun-19	20888708	Scopus
			Rekha S. N. <sup>J</sup> , P. Aruna Jey  Sapthagiri College of En  Salkalasalingam Academy of Research	anthy <sup>2</sup> , D. Devaraj <sup>3</sup>		
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using the RVM implementation carried out using Matlab on the Wind Energy using the KVM implementation carried out using Mattab on the Wind therepy Conversion System (WECS). The training time becomes important while the training is carried out in a bigger WECS, and the hardware feasibility is prime while the testing is carried out on an online fault detection scenario. Mattab based implementation is carried out on the benchmark model for the fault detection in the WECS. The results are compared with the previously implemented fault detection technique and found to be performing better in terms of training time and hardware feasibility

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Relevance vector machine

Wind energy conversion

Fault detection Gaussian kernel

System

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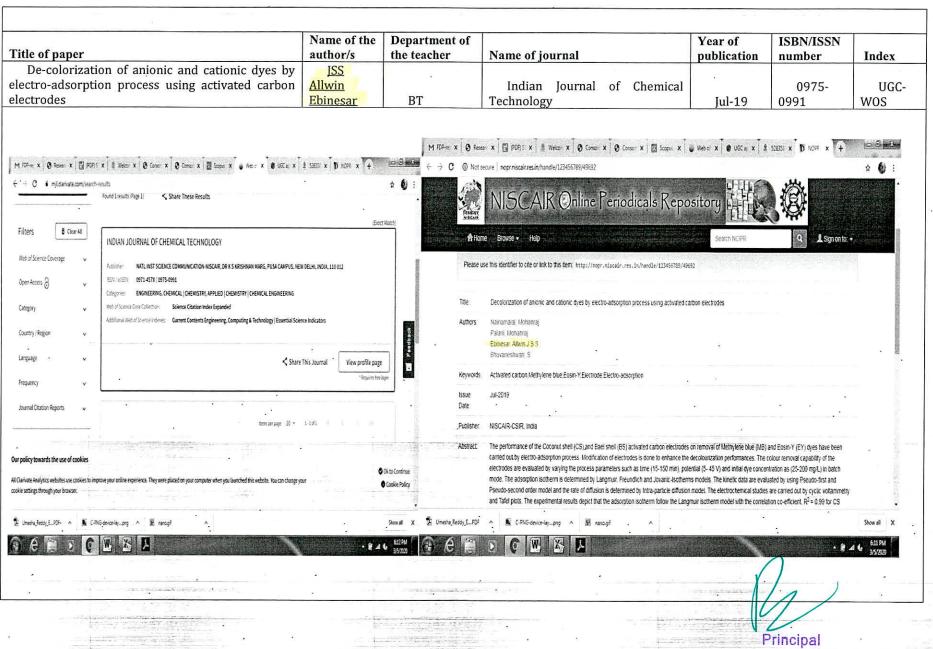
## 1. INTRODUCTION

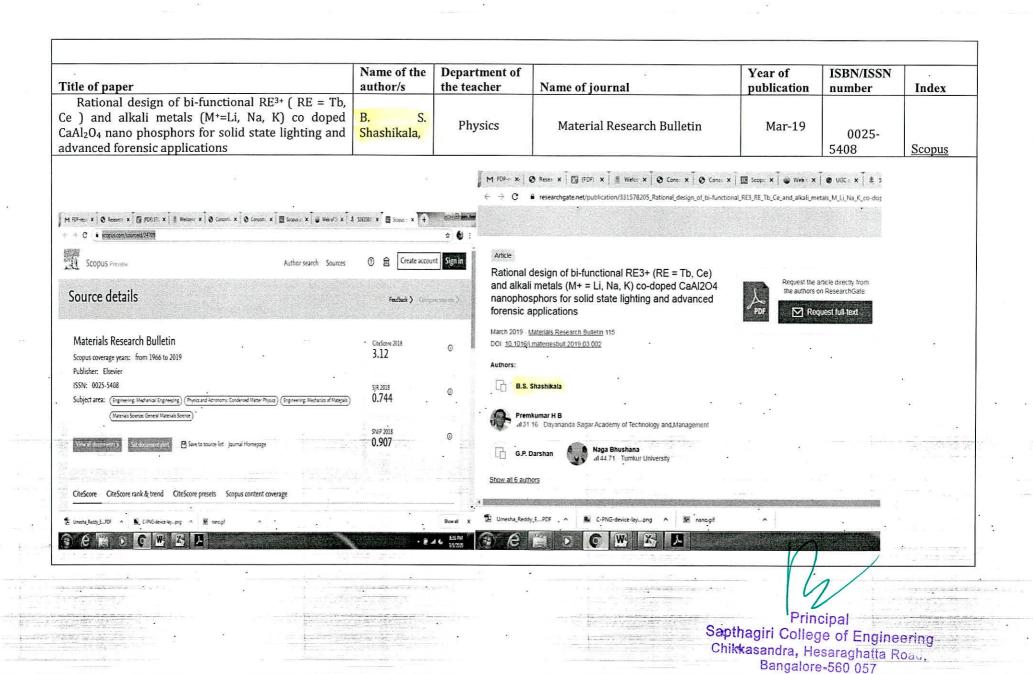
The fault detection in the WECS is an important aspect in the working of the wind power generation system, as the faults occurring in the system would increase the maintenance cost. Development of the overall fault detection including the turbine, generator, converter, pitch and the drive train becomes important considering the cost involved in the maintenance of the WECS. The benchmark model wind turbine for fault identification, which includes the sensor, process and actuator fault condition, is developed [1]. A 4.8 MW WECS model is developed in order to observe the faults in the system. SVM based fault detection is carried out in Wind turbines and compared with the ANN for the accuracy, training and tuning times [2]. The linear SVM performed better in comparison with the ANN. The classification using RVM performed better than the SVM while the training time is said to be higher [3]. Wind generator bearing fault are sensed by the sound and vibration in the tower using empirical mode decomposition method [4]. A nine turbine based wind farm challenge to detect the wind turbine faults in the individual turbine are carried out [5]. A state estimation set membership approach based implementation is found in fault detection of benchmark model with noise [6]. A multi-objective optimization framework for large scale wind turbine system is developed using the H, /H observer to detect the sensor and actuator fault [7]. Especially fault detection is a classification between two classes; normal state or fault and for the classification, support vector machine (SVM) is a useful machine learning method [7], [8], [9] and applications to fault detections are reported [10].

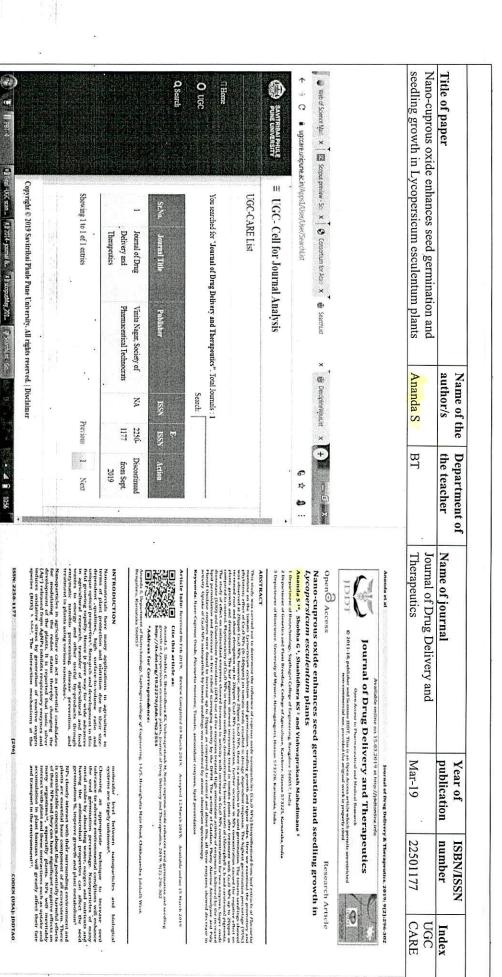
This paper takes up the implementation from the benchmark model and implement the RVM on the benchmark model for the wind fault identification problem. The overall faults like the sensor, process and

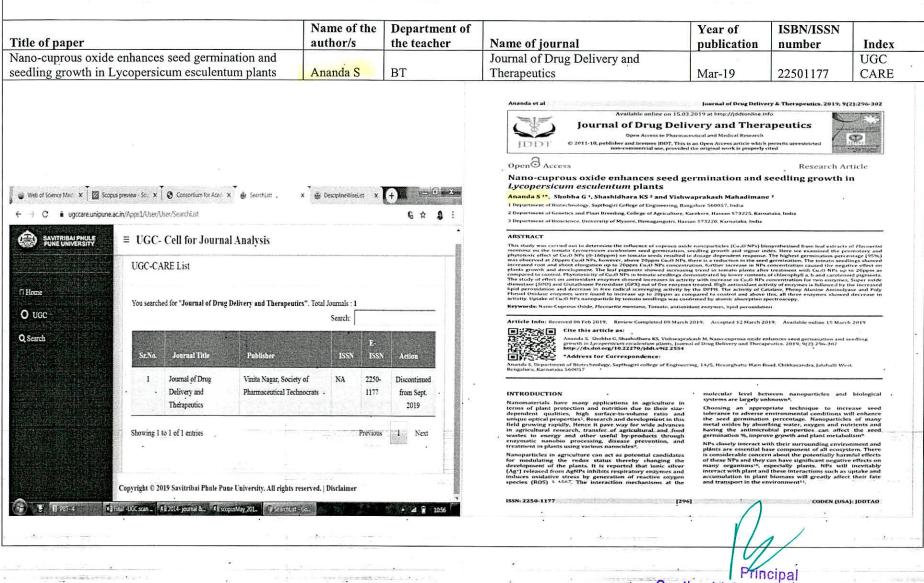
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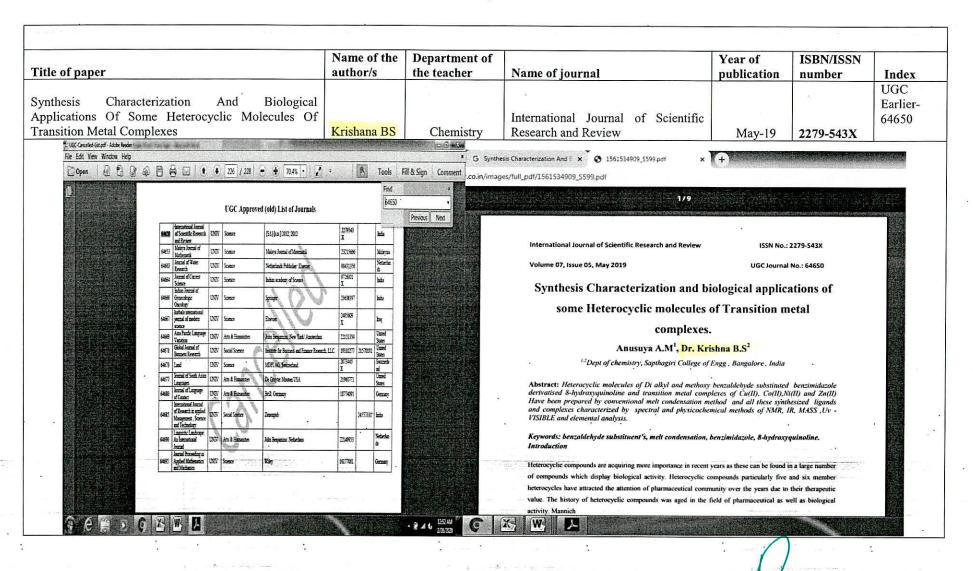
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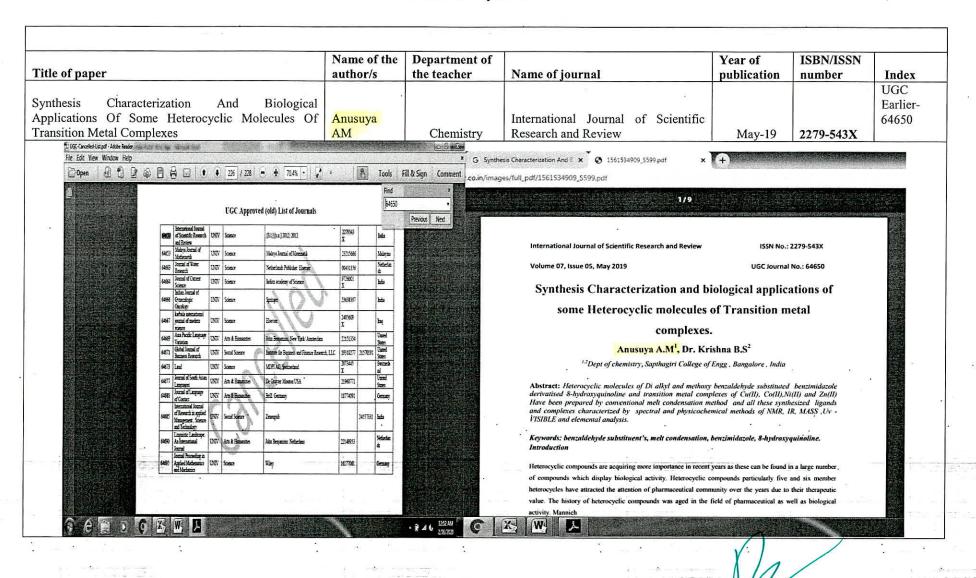


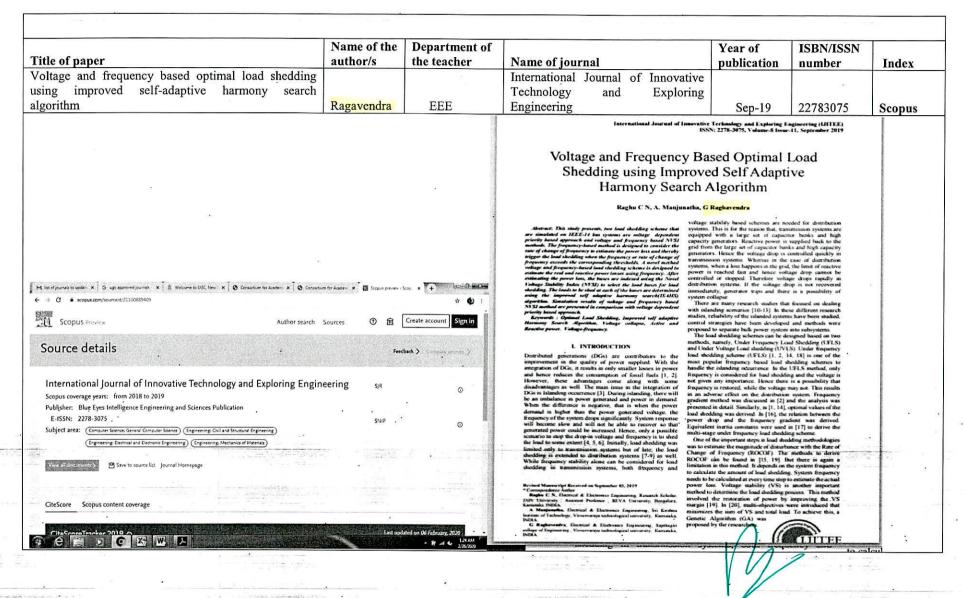


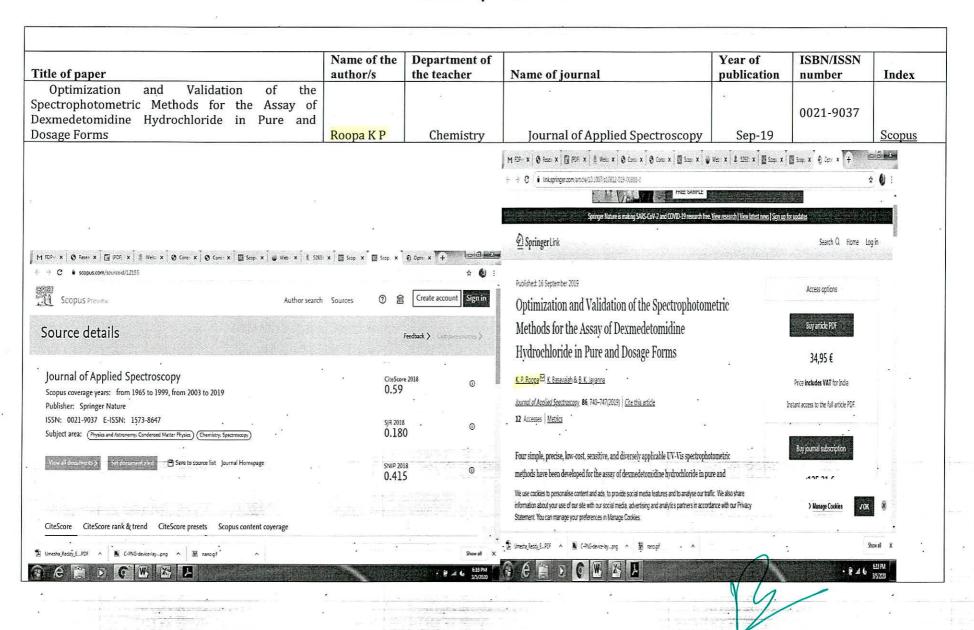












# **IOURNAL 101**

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Index
Invitro cytotoxicity study of green synthesized copper	u.		n 8 11			
nanoparticles	Ananda S	BT	Research journal of biotechnology	Aug-19	22784535	Scopus

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Research Journal of Biotechnology

Vol. 14 (8) August (2019)

## In Vitro Cytotoxicity Study of Green Synthesized Copper Nanoparticles

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## Abstract

In our earlier study, we reported the green synthesis of copper nanoparticles with antimicrobial activity. Here we report the cytotoxicity and genotoxicity potency of the green synthesized copper nanoparticles on cancer cells MCF-7. The different cell lines experimental results in our study have shown that the cells morphology changed significantly for cancer lines MCF-7 upon treatment with copper nanoparticles and IC sedase for MCF-7 cells was found to be 1.71 µg ml by MTT away. At this concentration, copper nanoparticles had shown no extotoxicity effect on normal cell line (3T3L1). The dual staining (Acridine orange/Ethidium Bromide) showed various degrees of accumulation of nanoparticles by apoptotic tumour cells with increasing concentration of copper nanoparticles.

The comet assay and DNA fragmentation assay by gel electrophoresis on cancer cell line MCF-7 showed the chromosomal condensation and fragmentation of DNA after treatment with the copper nanoparticles.

Keywords: Copper nanoparticle, Comet assay, DNA fragmentation, MTT assay, Tunasur cells.

## Introduction

Every organism on the earth continuously encounters nanometer-sized entities in day to day activities. The vast majority of them cause little negative effect and go unnoticed, but occasionally they will cause significant amount of harm to the organism.

Very small particles, called nanoparticles, have the ability to enter and translocate within the body and damage the living organisms.1 This ability results primarily from their small size which allows them to enter through physiological barriers and travel within the circulatory systems of the best organism. The natural processes have produced nanoparticles for cons, however the modern science has recently learned how to synthesize a large array of artificial materials engineered at the atomic scale.

The smallest particles contain tens or hundreds of atoms with dimensions at the scale of nanometers - hence nanoparticles. They are comparable to vinuses in size where the smallest have the dimensions of tens of nanometers (for example,

HIV is 100 nm in diameter). Like viruses, some nanoparticles can penetrate lung or dermal (skin) barriers and enter the circulatory and lymphatic systems of humans and animals and vastly disrupting cellular processes and may cause some types of diseases. The toxicity of each of these materials depends greatly upon the particular arrangement of its many atoms.

With consideration of all the possible shape and chemistry of the smallest nanoparticles, they can yield a hoge number of distinct materials with potentially very different physical, chemical and toxicological properties. A good example of a toxic nanomaterial is asbestos which causes lung cancer and other diseases.14 Ashestos exists in several forms with slight variations in shape and chemistry yet significantly varying toxicity levels.

Recent advances in nanotechnology have impacted industries including manufacturing, biomedical applications, electronics/telecommunications, agriculture and renewable energy among others.5 Because the nanotechnology is a recent development, the health and safety effects of exposures to nanomaterials and what levels of exposure may be acceptable, is not yet fully understood. Typical nanoparticles that have been studied are titanium dioxide, alumina, zine oxide, carbon black, carbon nanotubes and back minster fallerene

In spite of the immense advance in panotochnologies, the potential toxicity of nanoparticles has not been well understood.6 Various in-vitro examinations have been performed to evaluate the toxicity of a few nanoparticles using different assays. Few nanoparticles can be able to produce free radicals even under dark conditions which have attributed to surface defects bringing about increment in surface reactivity. In this perspective, it becomes necessary that the toxicity of nanoparticles has to be studied extensively in both in vitro and in vivo.

Metallic nanoparticles in recent days have gained great importance because of their high surface to volume ratio with small dimension. Metal oxide nanoparticles (NPs) have drawn extensive interest because of their enhanced properties, unprecedented performance, life cycle cost and interestingly vast appropriateness in different industrial fields and biomedical applications.7 Predominantly copper metal nanoparticles are right now under scrutiny because of their pertinence in different fields, for example, gas sensors, catalysis, butteries, high-temperature superconductors and field outflow producers, agribusiness as it is around 10 fold

Source details Research Journal of Biotechnology CiteScore 2018 0.22 Scopus coverage years: from 2008 to 2019 Publisher: Research Journal Biotechnology ISSN: 0973-6263 E-ISSN: 2278-4535 SIR 2018 0.138 Subject area: (immunology and Microbiology: Applied Microbiology and Biotechnology) (Single mistry, Genetics and Molecular Biology, Biotechnology ) (Chemical Engineering, Binangineering) SNIP 2018 0.160 CiteScore CiteScore rank & trend CiteScore presets Scopus content coverage CiteScore rank @ CiteScore 2018 Calculated using data from 10 April, 2019

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Keywords: Copper nanoparticle, Comet assay, DNA