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Materials Chemistry and Physics Volume 246, 1 May 2020, 122813

Cobalt oxide doped hematite as a petrol vapor sensor ★

Vikas V. Deshmane * 🌣 , Arun V, Patil b

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Highlights

- Efficient petrol vapor sensor was tested in the study
- Doping of cobalt oxide modified the structural and electrical properties of iron oxide
- Co1 films showed 84% sensitivity to petrol vapors at 250 $^{\circ}\mathrm{C}$
- Very few reports of petrol vapor sensor are available hence study was important

Abstract

The study analyzed and interpreted variations in structural, electrical & gas sensing properties of iron oxide (n-type semiconductor) films due to the addition of cobalt oxide (p-type semiconductor). Iron Oxide was synthesized by coprecipitation method. The synthesized iron oxide and readymade cobalt oxide were mechanically mixed in various weight percentages. The screen printing method was used to prepare films. These films were characterized using XRD, SEM, EDS and static gas sensing apparatus. XRD proved the existence of α -Fe₂O₃ (JCPDS #860550) and cobalt oxide (JCPDS #801543). SEM micrographs demonstrated porous film surface. EDS demonstrated nonstoichiometric elemental distribution in films. Variation in electrical properties (resistivity, TCR, activation energy in high temperature and low-temperature region) were quantitatively and qualitatively discussed. Due to cobalt oxide addition petrol vapor sensitivity and selectivity improved as compared to bare iron oxide films. Co1 films showed 84% sensitivity to petrol vapors at 250 °C. Study tested efficient petrol vapor sensor.

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Effects of Additives on Structural and Magnetic Properties of Iron Oxide

Vikas V. Deshmane and Arun V. Patil

https://doi.org/10.1142/S0219581X1950025X | Cited by: 0

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Abstract

This paper analyzes the effects of additives on the properties of Iron oxide. The Iron oxide was synthesized using the coprecipitation method. The X-ray diffraction (XRD) peaks of resultant Iron oxide perfectly matched with JCPDS #860550 (α phase of Iron oxide / Hematite). The additives like Cobalt oxide, Nickel metal, Indium oxide and Tin metal with diverse properties procured in readymade forms were mechanically mixed with Iron oxide in 1:99, 3:97, 5:95 and 7:93 weight ratios, respectively. The XRD peaks for additives were prominent for 7:93 (Additive: Base Material) weight % ratio samples. Therefore, for further studies, only these samples were used. In this study, variations in XRD intensity, lattice parameters, unit cell volume, grain size, microstrains (W-H analysis), dislocation density and stacking fault probability were analyzed. The specific surface area of particles was calculated by scanning electron microscope analysis. The presence of additives was also confirmed by energy dispersive spectra (EDS). The M-H loops (Vibrating Sample Magnetometer analysis) for samples under investigation showed rare vertical shifts. The weak magnetic behavior of bare Hematite (1.0 emu/gm) sample improved to antiferromagnetic behavior due to the addition of Cobalt oxide (7.89 emu/gm) and Nickel metal (2.76 emu/gm). The addition of Indium oxide (0.65 emu/gm) and Tin metal (0.73 emu/gm) samples showed a decreased magnetic saturation.

Keywords: Iron oxide • XRD • W-H analysis • VSM •

saturation magnetization

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ABSTRACT

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bstract				
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ass substrates at 400°C. The films were chard dienergy dispersive analysis by X-ray spect	racterised using X-ray diffraction, scann	ing electron microscope arties of the films were	8429	
ided using static gas sensing apparatus. Th	ne resistivity of films increased by adding	g MoO ₃ as the dopant in	Current issueList of issues	Subscribe Get TOC alerts
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Role of Librarian in 21st Century

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Librarian

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ABSTRACT

Today, the walls of a library are giving way to digital environments to establish the links with information and virtual. Information is a valuable resource. The traditional libraries should be transformed into hybrid libraries focused on providing information collected in the form of books and electronic sources to survive and to meet the need of end users. This paper describes the role of librarian in libraries, which have collection in form of e-books, digital documents and various databases and common access to the internet. Modern libraries are creating the society of knowledge. The librarians are constantly open to any changes in their field and eager to improve their skills and knowledge.

INTRODUCTION:-

Information Technology is rapidly changing the whole world and creating new challenges and opportunities. The Global changes particularly in digital environment/ ICT have had an impact on the functioning of libraries. The development in ICT has changed the user expectations from the libraries in many ways. In this age of information, the LIS plays not only just an important learning supporting function but the library itself is emerging as a site of learning sometimes more important than even the class-room. The library and Information services of higher education institutions play a central role in enhancing the quality of academic and research environment. The digital environment has changed the functions and duties of LIS Professionals; they are not only to extend assistance to users in searching information in a place called library but also to provide services and instruction regardless of place, time or format. Now librarian is an information provider, Website designer, Database developer, Services provider, Collection developer, Consortia manager, Information consultant, content manager and so on.

INFORMATION SOCEITY:-

The information age has arrived and modern society is commonly referred to as the "Information Society". Still, this term does not have a commonly accepted interpretation. Information society is described by the modern researchers as "the society in which the information is intensely used in economic, social, cultural, and political life it is a society with abundant means of communication and of information processing, the society being the basis for serving as a major part of the national income and ensuring the source of income for majority of the population. This information society, the popularity of the internet and electronic mass media is spreading very fast. The use of internet and e-resources created a new type of society and the analog technology has been abandoned in favors of digital technology within a couple of year. This new society is also referred to as the digital, Web, Internet or computer society. Information is the most sought-after and valuable merchandise in the society. It becomes indispensable for one



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MICROWAVE DIELECTRIC PROPERTIES OF AQUEOUS SOLUTION OF POLYMERS USING TIME DOMAIN TECHNIQUE

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The time domain reflectometry technique was used to evaluate Microwave dielectric properties of polymers (2,3-butanediol, 1,2,4-butanetriol, 1,2,5pentanetriol, 1,2,6-hexanetriol) in the frequency range of 10 MHz to 30 GHz at different temperature. The complex permittivity spectra for 1,2,4-butanetriol, 1,2,5-pentanetriol, 1,2,6-hexanetriol were fitted in Cole-Davidson model using non - linear least square fit method. The dielectric parameter such as, static dielectric constant and relaxation time has been determined for 2,3-butanediol, 1,2,4-butanetriol, 1,2,5-pentanetriol, 1,2,6-hexanetriol. The hydrogen bonding interactions for the aqueous solution of 1,2,6-hexanetriol have been discussed through the determination of Kirkwood Correlation factor.

Keywords: Complex permittivity; Dielectric relaxation; Kirkwood Correlation factor, Time domain reflectometry.

The microwave dielectric properties of a material such as dielectric constant, Introduction dielectric loss, relaxation time have provided an insight into the structure of the molecules of the system. The molecular interaction through hydrogen bonds in molecular complex liquids results in different dynamical properties. In liquids, the molecule has rotational freedom and its dispersion occurs at high frequency. Hence studying the dielectric properties at high frequency will reveal the dielectric relaxation of polar molecules and polymers and its variation with respect to the interaction with the neighbouring molecules.

The time domain reflectometry (TDR) is one of the major dielectric measurement technique and provides constructive representation regarding the molecular complex formation in solution The hydrogen bounded water molecule has permanent dipole moment and die tectric relaxation of pure water

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PAPER

Orthorhombic molybdenum trioxide microplanks as carbon monoxide gas sensor

Dharma K Halwar¹, Vikas V Deshmane^{4,2} and Arun V Patil³
Published 11 September 2019 • © 2019 IOP Publishing Ltd

Materials Research Express, Volume 6, Number 10

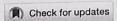
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Abstract

Study was aimed at analyzing gas sensing properties of copper oxide doped molybdenum trioxide. Screen printing method was used to prepare thick films of five different weight percent of copper oxide. XRD confirmed that material consists pure alpha phase of orthorhombic molybdenum trioxide (JCPDS 21-0569). FE-SEM micrographs showed planklike structure having all three dimension in microns. Hence authors used term microplanks. EDS analysis showed that all sample were having excess oxygen. Electrical measurement showed n-type semiconductor behavior of films. TCR also showed negative values for all films. Resistivity of the films reduced from 80 Ω m to 25 Ω m as copper oxide percentage increased. Activation energy in high temperature region also decreased from 0.6 eV to 0.25 eV due to addition of copper oxide dopant. 9 Wt% copper added molybdenum trioxide films (Cu9) showed 74.87% response to carbon monoxide gas at 150 °C. Response time (80 s) and recovery time (110 s) was quick. The synergy between thermal energy, oxygen excess samples, the activity of micro-planks and catalytic property of copper oxide dopant accelerated the reduction of carbon monoxide. Hence selectivity to carbon monoxide gas as compared with NH3, NO2, Ethanol vapor and LPG improved due to copper oxide dopant.

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Synergy of semiconductor (Hematite) & catalytic (Ni) properties enhance gas sensing behavior to NO2

Vikas V Deshmane^{1,1} and Arun V Patil²

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Materials Research Express, Volume 6, Number 7

Citation Vikas V Deshmane and Arun V Patil 2019 Mater. Res. Express 6 075910

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Abstract

In current study we analyzed changes in structural, morphological, electrical and gas sensing properties of hematite due to incorporation of nickel. We characterized screen printed samples using XRD, SEM, EDS techniques. Electrical and gas sensing properties were studied using static gas sensing method. XRD clearly showed that as Nickel% in hematite (PDF#860550) increased, the (011) peak became prominent (PDF#451027). SEM confirmed porous nature of films. EDS showed that the films were oxygen excess. Electrical properties showed that increase in Nickel percentage lowered resistance of films at room temperature. All samples showed n-type semiconductor behavior. Resistivity was maximum (6650 Ω, m) for Ni5 & activation energy was minimum (0.04924 eV) for Ni5 in high temperature region. Same Ni5

sample showed maximum response (106%) to NO₂ gas at 250 °C with good selectivity. Response time (100 s) was quick This site uses cookies. By continuing to use this site you agree to our use of cookies. To find out more, see our Privacy and but recovery, was slower (230 s). We discussed probable mechanisms of the cookies are the cookies.

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Dielectric relaxation and molecular interaction investigation of glycolic acid-water mixture using time domain reflectometry

P Senthilkumar^a, T Ganesh^{b*}, K Vinoth^b, M Maria Sylvester^c, D J S Anand Karunakaran^c, Praveen Hudge^d & A C Kumbharkhane^c

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The complex spectra of glycolic acid (GA) and water mixture have been measured by time domain reflectometry (TDR) in the frequency range 10 MHz to 30 GHz at various temperatures for entire concentration. Dielectric relaxation time (τ) , static dielectric constant (ϵ_0) and dielectric permittivity at low frequency (ϵ') and at optical frequency (ϵ'') have been determined from measured complex spectra (ϵ^*) using non-linear square fit method. Conductivity, Kirkwood and effective Kirkwood correlation factor of mixture calculated from the determined dielectric parameters have been used to find the alignment of dipoles between molecules. Thermodynamic parameters enthalpy, entropy and Gibb's free energy have been determined which enable the direction of reaction. Excess permittivity of glycolic acid-water mixture has also been determined which confirms the molecular interaction. Macroscopic parameters such as density and viscosity of mixture have been determined at room temperature. FTIR spectral characterization concedes the solute-solvent interaction.

Keywords: Dielectric parameters, Dielectric relaxation, Excess properties, Thermodynamic parameters, TDR

1 Introduction

Hydrogen bonding plays considerable role in many life processes. Hydrogen bonded molecular interaction in biological structure, importance, key process and applications were discussed earlier1-4. Dielectric relaxation is a significant parameter to determine molecular interaction between the molecules^{5,6}. Dielectric relaxation spectroscopy (DRS) is an efficient tool to study the dielectric behaviour of liquid mixture. Glycolic acid (GA) is the simplest carboxylic acid which contains highly polar organic groups. The carbonyl C=O and hydroxyl O-H are the two important H-bonding sites of GA. In addition to this methyl group of the structure possibly produces bonding. Relatively electro negative of oxygen creates permanent dipole moment even it is covalently bonded with carbon.

GA is an important intermediate in the photo respiratory carbon oxidation cycles in plant and algae⁷. The structure of GA chemically potent

has wide range of applications in industries, pharmaceutical and cosmetics. GA predominantly used in chemical peeling of skin8. GA is available naturally in sugar beet. The crystal structure of GA was studied by Pijper et al.9. Blom and Bauder studied the microwave spectrum of GA in the frequency range 48-60 GHz^{10,11}. Godfrey et al. 12 studied the structure of GA with jet expansion spectroscopy and AAT conformer. The lowest energy conformers of GA studied theoretically by Flock and Ramek¹³. The microwave spectroscopy and IR spectroscopy study show diversified rotamers and distinctive structural conformations^{14,15}. IR and Raman calculations on these rotamers and conformations with frequency assignment of glycolic acid are given by Mary et al. 16. In recent study Gu et al. studied the H-bonds in alpha hydroxy carboxylic complexes and also studied interaction of GA with dimer 17,18.

2 Experimental Method

2.1 Material and sample preparation

Glycolic acid was obtained from sigma Aldrich, having a purity of 99,9% and used without further

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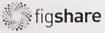
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GREEN SYNTHESIS OF SILVER NANOPARTICLES FROM PUNICA GRANATUM L. AND STUDY OF ITS ANTIMICROBIAL AND ANTIOXIDANT ACTIVITY

Rajguru Shubhangi A,Humbarwadi Shweta V, Kutty Prajitha N&Pauldas Kirubha Department of Microbiology, SICES Degree College of Arts, Science & Commerce, Ambarnath (W), University of Mumbai, M.S; India.

Abstract: Pomegranate (Punica granatum L.), a rich red coloured fruit is found in arid and semiarid parts of the world. Although the fruitoriginated in Iran, it is now widely cultivated. India is one of the leading producers of Pomegranate in the world. Enriched nutritional & medicinal values, exquisite fruit quality has led to a huge demand for this fruit in domestic and international market. In the present investigation, green synthesis of Silver nanoparticles from the seed extract of Pomegranate fruit was performed. The green synthesis method was less expensive, convenient and was monitored by UV-Vis spectroscopy. The antibacterial activity of the nanoparticles was studied by Agar cup method. These biologically synthesized nanoparticles exhibited good antibacterial activity against both Gram positive, Gram negative and yeast test isolates. Antioxidant activity of the extract was checked by ABTS & Reducing power assay. The seed extract exhibited high antioxidant activity. These particles can therefore be further exploited to study their therapeutic applications.

Key words: Green synthesis, Pomegranate extract, Silver nanoparticles, Antimicrobial activity, Antioxidant activity.

I. INTRODUCTION

In the last few decades, there has been a growing amount of research on nanotechnology, particularly involving the green synthesis and characterization of nanoparticles, as nanoparticles less than 100 nm in size are ideal agents for drug delivery and biomedical applications(Dipankar & Murugan.,2012;Banse & Ledwani;2016)

Three methods of nanoparticle production exist today-chemical, physical and "green" routes, with the green route involving the employment of biological reducing agents, including plant extracts and microbial filtrates (Sharma & Dev., 2014; Arokiyaraj & Kim., 2014). The first two methods are often costly and generate toxic by-products (Kesharwani & Rai., 2009; Padalia & Chanda., 2015) but the green nanosynthesis method has been recognized as an inexpensive and eco-friendly process (He & Zhao., 2013; Sharma & Lin., 2009). Metal Oxide nanoparticles have attracted worldwide attention because of their increased use in a variety of fields such as electronic, cosmetic, biomedicine, energy, environment, catalysis and material science (Bar & Misra., 2009; Ahmed & Ikram., 2016). Among the noble metal nanoparticles, AgNPs have received considerable attention due to their attractive physicochemical properties and applications in medicine (Mallikarjuna & Raju., 2011; Chauhan & Rishi., 2011)

Pomegranate can be divided into several anatomical compartments including seed, juice, peel, leaf, flower, bark and root with each possessing interesting pharmacological and toxicological activities (Gnanajobitha & Annadurai., 2013) The edible fruit is a berry, about 5-12 cm in diameter with a rounded hexagonal shape, thick reddish skin and around 600 seeds, each surrounded by a water-laden pulp (aril) ranging in color from white to deep red or purple, aril is the edible part of the fruit. Antioxidants are extensively studied for their capacity to protect cell from damage induced by oxidative stress. A number of synthetic antioxidants like butylated hydroxyt anyshife to wene and gallic acid esters are also available but

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GLUCOSE PHOSPHATE ISOMERASE (GPI) VARIATION IN TRIPLOID OYSTER-AN INDICATOR FOR CLIMATE CHANGE

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ABSTRACT

In present study triploid edible oysters produced in lab and reared in Tuticorin bay were analysed and compared with diploid for Isozyme Glucose phosphate isomerase which is an important enzyme for controlling glucose level in eukaryotes. Polymorphism in gene level help the organism to survive the climate change especially at high temperature and pH and the expression of the gene by allozyme analysis can be used as an indicator for organism selection during aquaculture

Keywords: Polymorphism, Triploidy, climate change, GPI, Edible oyster

INTRODUCTION

Climate change is harmfully affecting aquaculture systems all around the world as it mainly effects on species physiology (De Silva 2012). It is therefore imperative that vulnerable aquaculture industries are identified, thereby allowing researchers, managers and stakeholders to optimally allocate financial and human resources to address the key challenges and develop adaptation strategies

In the present study main objective was to note the specific relationships between triploids, population fitness and climatic stress in edible oyster, Crassostrea madarasensis (Preston) a filter feeding bivalve mollusc by subjecting diploid and triploid populations produced in lab condition and cultured in tuticorin bay. We specifically tested whether the tendency for triploids dominate more extreme, aquatic condition. Triploid organisms have limited capacity to mature and in most species where triploid individuals do not produce gametes or viable larvae and are considered to be sterile. An advantage of sterile organisms is that they transfer less biochemical energy to the gonad, so the other tissues can gain more weight over time. Induction of triploidy and its evaluation has been carried out in India (Mallia, 2004) and other molluscs of commercial interest (Guo and Allen 1994; Utting et al., 1996),

Allozymes are mostly primary products of transcriptionally active genes and it is assumed that a specific enzyme profile is the reflection of the genetic makeup of a given species. They may be used to "fingerprint" a species/stock/individual considering all other variables as constant (Sarangi and Mandal, 1996). Allozymes offer a potentially powerful and reliable tool for resolving genetic relatedness/divergence questions by employing the degree of polymorphism of diverse alleles at different loci involved in translating specific enzymes and their varied multiple molecular forms. They have been used widely as molecular tags in genetic, phylogenetic, taxonomic and evolutionary studies and in strain or type identification (Richardson et al., 1986).

Electrophoretic separation of allozymes provides a visual presentation of the products of a single gene. The application of electrophoretic techniques on genetically controlled polymorphic enzymes can also be used to confirm gynogenesis and polyploidy (Ryman and Utter, 1986). Electrophoresis is particularly applicable for diagnosis of ploidy because it allows direct visualization of gene duplication at discrete structural gene loci (Allen et al., 1982). It has also been applied effectively to a considerable array of studies to determine gene dosages in polyploid vertebrates (Balasano et al., 1972).

Glucose phosphate isomerase (GPI) is one of commonly used isozymes in molluscs, (Allen et al., 1982; Hawkins et al., 1994; Magoulas et al., 2000). According to Allen et al. (1982) these enzymes were found to be sufficiently heterozygous for screening of diploids from polyploids. According to Balasano et al. (1972) it is also possible to determine the frequency of triploidy by screening albumin phenotypes in natural populations. Beaumont and Kelly (1989) point out that triploid mussels can serve as a useful research tool to address current genetic phenomena such as heterozygosity with growth correlations and heterozygote deficiencies in marine bivalves. In the induction of triploidy by targeting meiosis I, the homologous chromosomes that normally separate from each other at this stage of cell division are prevented from doing so, and thus, all of the heterozygosity of the female parent is retained in the egg. The addition of the male haploid chromosome set further increases heterozygosity beyond that of meiotic II induced triploids or diploids. It has been suggested by Stanley et al. (1984) that I meiotic triploids have higher heterozygosity levels than II meiotic triploids.

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ANALYSIS OF WATER QUALITY OF CHIKHLOLI LAKE OF AMBERNATH, DISTRICT THANE, MAHARASHTRA, BY USING SOME PHYSICO -CHEMICAL PARAMETERS

Mudaliar Shanti L.1 and Patel Alpa K.2

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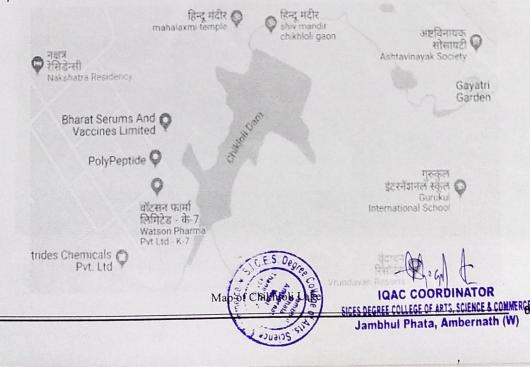
ABSTRACT

Ambernath Taluka is located in Thane district and has a varied geographical structure with hills which descend from Matheran ranges. The area has wide range of Plant Biodiversity & few water bodies like lakes and Ulhas River flowing through it. With this Ambernath also has a semi urban and well developed residential area, as well as heavily polluted industrial areas. Present investigation deals with the study of physico-chemical parameters of Chikhloli Lake of that area. The Parameters selected were Temperature, pH, BOD, Alkalinity, Hardness etc. The lake water is not used for drinking, agriculture and other domestic purpose. By observing the result it can be concluded that the readings are not within a range of permissible limit of standards (BIS, IS-10500, FAO). The result shows that overall water quality was found unfit for drinking and irrigation purpose.

Keywords: Chikhloli Lake, Physicochemical parameter, BOD, Hardness.

INTRODUCTION

Water is a vital and unique element as it is can be naturally found as a solid, liquid or gas. India receives about 1400-1800mm of rainfall annually. About 96% of this water is used for agriculture, 3% of domestic use and 1% for industrial activity. An analysis revealed that about 70% of all the available water in our country is polluted due to the discharge of effluent from the industries, domestic waste, land and agricultural drainage [1]. Water resources are of critical importance to both natural ecosystem and human development. It is essential for agriculture, industry and human existence. The healthy aquatic ecosystem is depended on the physico-chemical and biological characteristics [2]. The quality of water in any ecosystem provides significant information about the available resources for supporting life in that ecosystem. Good quality of water resources depends on a large number of physico-chemical parameters and biological characteristics. To asses that monitoring of these parameters is essential to identify magnitude and source of any pollution load. These characteristics can identify certain condition for the ecology of living organisms and suggest appropriate conservation and management strategies. Water is universal solvent dissolving a number of substances that it comes in contact with. However water for human consumption and other domestic purposes should be free from disease causing organisms, poisonous substances, excessive amount of minerals and organic matter. It should also be free from color, turbidity, taste and odour. [3] Now a day due to rapid industrialization, deforestation and over population most of our natural water bodies are gradually becoming degraded to a great extent. Unplanned and excessive exploitation resulted.



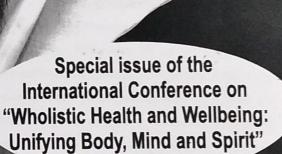


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Dr. D. M. Sapkal

S.I.C.E.S. Degree college of Art's Commerce and Science College Ambernath

Abstract

Health is a state of complete physical, mental and social wellbeingness and not merely the absence of any disease. Today's life being very fast and competitive, due to which we cannot get enough time for exercise. Lifestyle includes the daily routine and deferent types of food that can be consumed by the human being. Nowadays the consumption of junk foods like Burgers, Pizza, Chinese foods etc. are easily available in the fast-food shops and our young generation is attracted towards it. Due to this such people are getting sick frequently. The habits like staying on bed till late morning and going to bed late night frequent changes in meal timings, lack of physical exercise like morning walk, jogging, cycling, swimming, outdoor sports games will affect on physical and mental health of the peoples. If peoples fall to sick frequently, people should follow right lifestyle. It must include sufficient sleep, right and hygienic food, Yogasanas, Pranayam and physical exercise. The physical exercise should also be depending on as per one's own capacity. Pranayam and yogasanas should be performing under the expert supervision. India has spiritual culture around thousands of years. Yoga and meditation have been used as a different form of exercise to keep the mind and body healthy and very happy. Yoga is a common group of spiritual, physical and mental practices those are originated in ancient India. The origins of yoga have been speculated to date back to pre- Vedic Indian traditions, it is mentioned in the Rig-Veda, but mostly developed in the fifth and sixth centuries BCE, In Ancient India's ascetic and sramana movements. The daily practicing of yoga it improves physical health and relaxes the mental stress of human being. Yoga improves balance, flexibility, endurance and strength. Mediation is a technique, such as focusing our mind on a particular object, thought or activity to achieve a mentally clear and emotionally clam state, can be defined as a practice where an individual uses. Meditation has been practiced since antiquity in numerous religious traditions and beliefs. Since the 19th century, it has spread from its origins to other cultures where it is commonly practiced in private and business life. Mediation helps to keep the mind sharp, relieves stress and anxiety, and can strengthen you have stress of human being. Meditation

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Tha Guest Lentor: Dr. R. J. Solomon

Phata (W)

Original Article

Open Access

Study in relation to Biodiversity of Aeromycological species in chikhloli, Ambarnath, MS, India

Patel Alpa K and Patil Vivekkumar V

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ABSTRACT

The present investigation is carried out in Chikhloli area of Ambarnath, which has varied geographical structure. Climate is comparatively less humid and temperature is variable. Extramural aerobiological research includes aero microbial survey at various places of chikhloli region. The Aeromycologocal survey was carried out from March 2016 to February 2017 by using Petri – plate exposure method. Total Twenty two micro fungi trapped from the air. This study is very important with respect to qualitative and quantitative information about the airborne fungi. The prevalence of dominant airspora was found to be correlation with the metrological parameter like Temperature and Humidity. The maximum mycoflora was registered during the monsoon period between July to October, which is gradually decreased during summer from March to June.

Keywords: Aeromycologocal, Metrological parameter, Petriplate exposure method, Micro fungi.

INTRODUCTION

Aerobiology is a scientific and multidisciplinary approach focused on the biodiversity of biological significant materials. It is deal with the science which provides information from various disciplines like ecology, mycology, plant pathology, palynology, bio-chemistry, immunology and clinical medicine. Fungi are the most important aero allergens. Fungal spores constitute a significant fraction of air borne particles. They occur in varying concentration in the atmosphere depending upon the climatic factors, locations.

The present study was carried airspora at the various correlation with the matter.

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GREEN SYNTHESIS AND STUDY ON ANTIMICROBIAL ACTIVITY OF NANOPARTICLES FROM FLORAL EXTRACT OF CHRYSANTHEMUM INDICUM

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ABSTRACT

Chrysanthemum indicum widely available flowers have long been used in traditional Korean and Chinese medicine to treat inflammatory diseases. C. indicum is well known for its use in food additives for enhancing flavors, in teas and alcoholic beverages from the ancient times. Now a day's C. indicum has been used as an herbal medicine, which is prescribed for anti-inflammatory, analgesic, antipyretic purposes and the treatment of eye diseases. The bioactive components in C. indicum are glycosides and flavonoids has the ability to act as antibiotic against many species of disease causing bacteria. However, the pharmacological activity and bioactive constituents of this natural medicine are left uncharacterized. C. indicum can be used in the form of ethanolic extract, essential oil and air dried and processed flowers. The present study reveals the medicinal use and antibacterial properties of ethanolic extract of Chrysanthemum indicum and its nanoparticles against oral, skin, enteric and Nosocomial bacteria. It shows effectivity against oral, skin and enteric bacteria while nosocomial bacteria shows resistance.

KEY WORDS

antibacterial properties, Chrysanthemum indicum, glycosides and flavonoids, herbal medicine, Silver nanoparticles

INTRODUCTION

Chrysanthemum indicum is an erect, aromatic, perennial plant, which is harvested from the wild for local use as a food and medicine. It is a plant of temperate origin; it can be grown successfully in tropical areas. The phytoconstituents isolated from plants have chemical substances which bind to effective target sites in human body. The most important bioactive compounds from plants are alkaloids, glycosides, terpenoids, steroids, flavonoids, tannins, saponins, sugars, cumarins, proteins, and phenols [1]. Flavonoids are proved to be important bioactive in herbal plants Several flavonoids and glycosides have been isolated from medicinal plants and which play a vital role in healthcare systems of the most traditional and modern

medicines. Chrysanthemum indicum has been used as a herbal medicine, which is prescribed for antiinflammatory, analgesic, antipyretic purposes and the treatment of eye and skin diseases. The C. indicum has a long history using as an Oriental traditional medicine for the treatment of several infectious diseases such as pneumonia, colitis, stomatitis, cancer, fever, and used to treat migraine, pertussis, and hypertensive symptoms. The phytochemicals of C.indicum leaves are also responsible for anti-proliferative effect in yeast can be purified and explored for anticancer potential in humans. [2]

Edible parts of Chrysanthemum indicum:

The flower heads are pickled in vinegar. Young leaves cooked. An aromatic tea is made from the leaves. [3]

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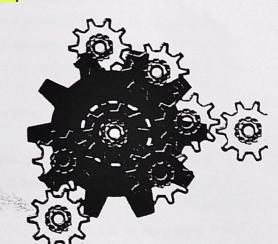


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6. Information Seeking Behavior in Sices Degree College of Arts, Science & Commerce, Ambarnath (West)

Dr. Sanghrsh S. Gajbe
Librarian, S.I.C.E.S. Degree College of Arts, Science & Commerce, Jambhul Phata,
Chikloli, Ambernath (W)

Abstract:

Aim of this study was to investigate the availability and utilizations of existing resource of the libraries in the study. Students were selected as sample on the basis of their availability. The data for this survey was collected through questionnaires of students. The results revealed that libraries are. Lack of human and material resources was the main reason for underutilization. Student mostly visit library for reading books, preparation of assignment and consume spare time. It is concluded that improved library services and provisions can enhance the relevance and utilization of libraries.

Keywords: libraries, library resources, user servey,

Introduction:

The academic libraries have been described as the "heart" of the learning community, providing a place for students and faculty to conduct their research and advance their knowledge. In the education system, an academic library is the centre of academic life. Understanding the needs of the target group will help to develop the diverse strategies that are appropriate to obtain effective results. For user—centered service the library needs to know the users and user needs. One of the main tools that can be used to evaluate and assess the library services is the user survey. It is impossible to assess the changing needs of the clientele unless user surveys are conducted to determine user needs and their reading interests.

1. User surveys:

Library services stated that library surveys are shifting their emphasis toward the library user, patterns of library use, and the degree to which user needs are being met. Busha and Harter (1980),

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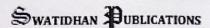
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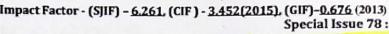
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Website Analysis of Engineering Colleges in Sant Gadge Baba Amravati University, Amravati.

> Mr. Sangharsh S. Gajbe Librarian

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Abstract-

This study examines the 27 engineering college of Sant Gadge Baba Amravati University, Amravati. Investigates the domain systems of the websites, analysis the number of web pages and link pages and calculates the simple web impact factor, self link web impact factor, external link web impact factor and revised web impact factor and ranks the websites as per the WIF.

Webpage, Website, Webometric, Link analysis, web impact factor, Engineering Keywords: Colleges, Sant Gadge Baba Amravati University, Amravati.

Introduction

The world wide web has now become one of the main sources of information to academic and research activities, and therefore, is an excellent platform to test new method of evaluating webometries. Webometries research has been conducted by both information scientists and computer scientists, with different motivations. Within information science, webometrics has expanded from its initial focus on bibliometric-style investigations to more descriptive and social science oriented research. It seems likely that webometric techniques will continue to evolve in response to new web developments. RESEARCHMOURMEY

Definitional Analysis Webometrics:

the study of quantitative aspect of web/web site. The science of webometrics (also cybermetrics) tries to measure the World Wide Web to get knowledge about the number and types of hyperlinks, structure of the World Wide Web and usage patterns. According to Björneborn and Ingwersen (2004), the definition of webometrics is "the study of the quantitative aspects of the construction and use of information resources, structures and technologies on the Web drawing on bibliometric and informetric approaches."

Link analysis

as Link analysis is the quantitative study of hyperlinks between web pages. The use of links in bibliometrics was triggered by Ingwersen's Web Impact Factor (WIF), created through analogy to the JIF, and the potential that hyperlinks might be usable by bibliometricians in ways analogous to citations. The standard WIF measures the average number of links per page to a web space (e.g., a web site) from external pages. The hypothesis underlying early link analysis was that the number of links targeting an academic web site might be proportional to the research productivity of the owning organisation, at the level of universities, Essentially the two are half d because more productive researchers seem to produce more web content, on average, mbernath (W) although this content does not attract more links per page. Nevertheless, the pattern is likely to be Ambernath (W

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PAPER

Study of In_2O_3 and α -Fe₂O₃ nano-composite as a petrol vapor sensor

Vikas V Deshmane¹ (and Arun V Patil²

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Abstract

In this experiment we studied morphological, structural and gas sensing properties of the In_2O_3 - α - Fe_2O_3 nanocomposite films prepared by mechanical mixing. Iron oxide (α - Fe_2O_3) was prepared by co-precipitation method. We added 1 wt%, 3 wt%, 5 wt% and 7 wt% of In_2O_3 in synthesized iron oxide by mechanical mixing. Films of In_2O_3 additive and iron oxide were prepared using screen printing method. XRD study was employed to find out content and structure of the films. SEM analysis was carried out to understand film morphology. EDS analysis was carried out to understand elemental constituents of the films. Static gas sensing apparatus was used to study response of films for various gases. Properties like sensitivity, selectivity, response and recovery time were calculated. Petrol vapor sensors are not reported yet. At 250 °C these In_2O_3 - α - Fe_2O_3 nano-composite films showed good response of 50% for petrol vapors as compared to other four gases. We discussed probable mechanism for In_2O_3 and In_2O_3 are reported to other four gases. We discussed probable mechanism for In_2O_3 and In_2O_3 and In_2O_3 and In_2O_3 and In_2O_3 and In_2O_3 are reported to other four gases. We discussed probable mechanism for In_2O_3 and In_2O_3 are reported to other four gases. We discussed probable mechanism for In_2O_3 and In_2O_3 and In_2O_3 and In_2O_3 are reported to other four gases.

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Dielectric relaxation behaviour of triethylene glycol [TEG]+water mixture as a function of composition and temperature using TDR technique

PG Hudge^a, RN Pawar^b, BD Watode^c & AC Kumbharkhane^{b*}

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The complex dielectric spectra of binary mixture of triethylene glycol [TEG] + water have been carried out at different concentrations and temperatures (0 °C, 5 °C, 10 °C, 15 °C, 20 °C and 25 °C) in the frequency range of 10 MHz to 30 GHz using time domain reflectometry technique. The static dielectric constant (ϵ_0), relaxation time (τ), Kirkwood correlation factor (g^{eff}), excess permittivity (ε_0^E), thermodynamic parameters (activation enthalpy and entropy) and Bruggeman factor (f_B) have been determined for binary mixtures. The Bruggeman model for the nonlinear case has been fitted to the dielectric data. These dielectric parameters confirm that the intermolecular homogeneous and heterogeneous hydrogen bonding vary significantly with the increase in concentration of the triethylene glycol in water mixtures.

Keywords: Triethylene glycol, Time domain reflectometry, Dielectric relaxation, Kirkwood correlation factor, Thermodynamic parameter

1 Introduction

It is known that in heteromolecular interactions of solutions of aliphatic compound with water an important role is played by number of hydroxyl groups in the alcohol. Aqueous solutions are fundamentally involved in the chemical processes of life and all of biological chemistry takes place in an aqueous environment and have found extensive applications, mostly because of their wide application in the field of biochemistry and biochemical engineering. Aqueous solutions are perplexing since they adopt some of the eccentric behaviour of water. The eccentricities of aqueous solutions are closely tied to the structure and dynamics of the liquid.

Triethylene glycol [TEG] [C₆H₁₄O₄] is a straightchain. It has dihydric alcohol aliphatic compound on both ends by hydroxyl group. Due to the presence of ends hydroxyl groups, the molecules of these liquids can enter into intra and intermolecular hydrogen bonding giving rise to several conformations in water . TEG molecules are soluble in water in a wide concentration range and are the most useful pharmaceuticals and industrial polymers. TEG is used in the oil and gas industry to dehydrate natural gas.

finds compound Although TEG applications in the chemical industry, their structural behaviour and dielectric relaxation have not been systematically studied and only few authors reported concerning these aspects4. Dielectric spectroscopy is one of the most scientific method for studying hydrogen bonding in liquid mixtures and has great potential to investigate intermolecular interaction between them. The dielectric relaxation studies of ethylene glycol, diethylene glycol and their binary mixtures were investigated in water and 1,4-dioxane solutions to understand molecular interaction1,2 Dielectric relaxation studies of binary mixtures of ethylene glycol-water carried out by Zahn et al.5. The same study was done by Shinyashiki et al.6. This work confirms the solute-solvent interaction and dynamical behaviour of water⁶⁻⁹. Also the dielectric studies carried out by Joshi et al. 10 and Sastry et al. 11 Extensive dielectric relaxation studies were carried out in the frequency range from 10 MHz to 10 GHz on the associating molecules for their molecular conformations 12-14. The dielectric parameters of EGwater and DEG-water mixtures predict that polymeric hydrogen bonded structures involving unlike molecules in DEG is more dominant than in EG15. No

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*Corresponding author (E-mail: akumbharkhane@yahor.crif). Degreattompt, so far, seems to have been made to study the

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Dielectric dispersion, relaxation and molecular interaction of pyrazine binary mixtures

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Abstract

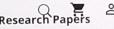
The dielectric depressiveness, absorption and orientation behavior is investigated in relation to solution properties of pyrazine with water, methanol and ethanol for varying temperature and mole fraction. This behavior is discussed in terms of inter molecular bonding. Orientation effects and their dielectric properties are indicated by surface dipole potential

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Open Access | CC Dielectric dispersion and thermodynamic behavior of stearic acid binary mixtures with alcohol as co-solvent using time domain reflectometry

M. Maria Sylvester, T. Ganesh, D. J. S. Anand Karunakaran, P. Senthilkumar, Praveen G. Hudge and A. C. Kumbharkhane

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Abstract

Dielectric permittivity and relaxation dynamics of binary and ternary mixture of stearic acid on various concentration and their thermodynamic effects are studied. The static dielectric constant (ε_0) , dielectric permittivity (ε') and dielectric loss (ε'') are found by bilinear calibration. The relaxation time (τ) , dielectric strength $(\Delta \varepsilon)$ and the excess permittivity (ε^E) are found. The thermodynamic parameters such as enthalpy (ΔH) , entropy (ΔS) and Gibb's free energy (ΔG) are evolved. The significant changes in dielectric parameters are due to the intramolecular and intermolecular interactions in response to the applied frequency. The permittivity spectra of stearic acid-alcohol in the frequency range of 10 MHz to 30 GHz have been measured using picoseconds Time Domain Reflectometry (TDR). The dielectric parameters $(\varepsilon_0, \varepsilon', \varepsilon'')$ are found by bilinear calibration method. Influence of temperature in intermolecular interaction and the relaxation process are also studied. The FT-IR spectral analysis reveals that the conformation of functional groups and formation for hydrogen bonding are present in both binary and ternary mixtures of stearic acid.

Keywords:

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Dielectric properties of benzylamine of pen Access I co in 1,2,6-hexanetriol mixture using time domain reflectometry technique

M. B. Swami, P. G. Hudge and V. P. Pawar

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Abstract

The dielectric properties of binary mixtures of benzylamine-1,2,6-hexantriol mixtures at different volume fractions of 1,2,6-hexanetriol have been measured using Time Domain Reflectometry (TDR) technique in the frequency range of 10 MHz to 30 GHz. Complex permittivity spectra were fitted using Havriliak–Negami equation. By using least square fit method the dielectric parameters such as static dielectric constant (ε_0), dielectric constant at high frequency (ε_∞), relaxation time τ (ps) and relaxation distribution parameter (β) were extracted from complex permittivity spectra at 25 °C. The intramolecular interaction of different molecules has been discussed using the Kirkwood correlation factor, Bruggeman factor. The Kirkwood correlation factor (g_f) and effective Kirkwood correlation factor (g^{eff}) indicate the dipole ordering of the binary mixtures.

Keywords: Dielectric properties - time domain reflectometry - Kirkwood correlation factor - Bruggeman factor

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MAPPING OF LEPROSY LITERATURE: A BIBLIOMETRIC STUDY

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ABSTRACT: - The paper has done a bibliometric analysis of leprosy research. The data for the study has been downloaded from national centre for Biotechnology (NCBI) Pub Med. The study analyses literature growth trends. It also examines research activities in different countries worldwide. To identify the core journal, this published Leprosy research literature. The study also identifies the active institutions, which published the Leprosy literature the most.

1. INTRODUCTION

There has been significant growth in the research literature on leprosy. Searching the literature in this area from the International database gives an insight into the pattern of growth of this literature. The paper intends to make a bibliometric study of leprosy-based literature. Bibliometric study is a simple

statistical method of bibliography counting to evaluate and quantify the growth of a subject.

- 1. The data for the study was downloaded from the National Center for Biotechnology Information (NCBI) Pub Med.
- Pub Med (Published Medical Literature) is an online version of MEDLINE, available free to anyone with internet access. MEDLINE is the National Library of Medicine's

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AUTHORSHIP PATTERN AND DEGREE OF COLLABORATION IN THE LEPROSY RESEARCH: A SCIENTOMETRICS STUDY

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ABSTRACT

Abstract: In this study, we examine the authorship pattern and Degree of collaboration in Leprosy Research literature. For this purpose, the required data has been collected from the PUB Med Data Base published from 2003 to 2012. Scientometric tools such as, Authorship pattern, Degree of collaboration, collaboration co-efficient and dominance factor have been used. Applicability of Lotka's law has been tested. The study reveals that the coauthored papers are dominated and the author productivity follows the Lotka's law.

KEYWORDS: Bibliometrics, Scientometrics, Lotka's law, Authorship pattern, Degree of collaboration.

1.1 INTRODUCTION

Authorship studies provide valuable information concerning characteristics of authors, their collaboration, assessing and monitoring research activities among others. Some specific

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