3.3.1: Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Name of the Author/s	Department of the Teacher	Name of the Journal	Year of Publication	ISSN Number	Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list
Dr G Sivaiah	Mathematics	International journal of fluid mechanics and research	2017	0970-6577	https://www.begellhouse.com/journals/fl uid-mechanics-research.html	DOI:10.5958-2320-3226.2017.00034.0	Yes
Dr G CHANDRA SEKHAR	Chemistry	IJESRT	2017	2277-9655	http://www.ijesrt.com/index.html	DOI: 10.5281/zenodo.839192	Yes
Dr G CHANDRA SEKHAR	Chemistry	IJESRT	2017	2277-9655	http://www.ijesrt.com/index.html	DOI: 10.5281/zenodo.801259	Yes
Dr G CHANDRA SEKHAR	Chemistry	IJESRT	2017	2277-9655	http://www.ijesrt.com/index.html	DOI: 10.5281/zenodo.573530	Yes
Sri P Sivarami Reddy	Physics	Science	2017	0973-1628	http://www.researchlink.in	Research link-160,vol-XVI(5), july 2017,page no:17-18	Yes
P Sivarami Reddy	Physics	CONTEMPORARY RESEARCH IN INDIA	2017	2231-2137	http://www.contemporaryresearchind ia.net/	Vol;7 issue 2, page no's:327-330,2017	Yes
Sri S Nagendra	English	Language in India	2018	1930-2940	http://www.languageinindia.com/	http://www.languageinindia.com/june2018/sudhapoeticalsketchsarojininaidu.html	Yes
Dr G CHANDRA SEKHAR	Chemistry	IJESRT	2018	2277-9655	http://www.ijesrt.com/index.html	DOI:10.5281/zenodo.1206987	Yes
Sri S Nagendra	English	Language in India	2018	1930-2940	http://www.languageinindia.com/	http://www.languageinindia.com/july2018/nagendrapoetofnaturesarojini.html	Yes
Dr L Bhushan Kumar	Physics	International Journal of Nanoscience and Technology	2018	2455-0191	https://www.ijnnonline.net/	https://doi.org/10.30799/jnst.sp201.18040205	Yes
Dr C Ramana Reddy	Political Science	International journal of emerging technologies and innovatives researches	2018	2349-5162	https://www.jetir.org/?gclid=EAlalQo bChMlz6LoydHFgQMVSnErCh1hlA KmEAAYASAAEgJWRPD_BWE	http://www.jetir.org/view?paper=JETIR181218	Yes
Dr G CHANDRA SEKHAR	Chemistry	Journal of Emerging Technologies and Innovative Research	2019	2349-5162	https://www.jetir.org/?gclid=EAlal QobChMlz6LoydHFgQMVSnErCh1 hIAKmEAAYASAAEgJWRPD BwE	https://www.jetir.org/view?paper=JETIR1904L2	Yes
Dr G CHANDRA SEKHAR	Chemistry	Compliance Engineering Journal	2019	0898-3577	https://ijceng.com/	DOI:16.10089.CEJ.2019.V10I12.285311.2788	Yes
Dr G CHANDRA SEKHAR	Chemistry	Asian Journal of Research in Chemistry and Pharmaceutical Sciences	2019	2349-7106	Asian Journal of Research in Chemistry and Pharmaceutical Sciences. 7(1), 2019, 114	www.ajrcps.com/article/PHASE%20EQUILIBRI A%20FOR%20BINARY%20MIXTURES%20OF %20NONANE%20WITH%20OCTANE%20AND %20OCTANE%20WITH%20ORTHOXYL	Yes
Sri G Sivaiah	Maths	International Journal of Fluid Mechanics Research	2019	2152-5110	https://www.dl.begellhouse.com/jour nals/71cb29ca5b40f8f8.html	https://www.dl.begellhouse.com/journals/71cb2 9ca5b40f8f8.075354f82a6f0e6f,5b78fdd250a50 82e.html#	Yes
Dr C Ramana Reddy	Political Science	International journal of emerging technologies and innovative research	2019	2349-5162	https://jetir.org/?gclid=EAlalQobChM I_djb9dfFgQMV0IVLBR2SDAFyEAA YASAAEgLkdfD_BwE	http://www.ietir.org/view?paper=JETIR1907240	Yes
Dr C Ramana Reddy		International journal of emerging technologies and innovative research	2019	2349-5162	I djb9dfFgQMV0IVLBR2SDAFyEAA YASAAEgLkdfD BwE	http://www.jetir.org/view?paper=JE TIR2009193	Yes

Dr G CHANDRA SEKHAR	Chemistry	Asian Journal of Research in Chemistry and Pharmaceutical Sciences	2019	2349-7106	Asian Journal of Research in Chemistry and Pharmaceutical Sciences 7(1), 2019,305-314	http://www.ajrcps.com/article/PHASE%20EQUI LIBRIA%20FOR%20BINARY%20MIXTURES% 20OF%20NONANE%20WITH%20OCTANE%2 0AND%20OCTANE%20WITH%20ORTHOXYL ENE,%20METAXYLENE%20AT%20101.3%20 KPA.pdf	Yes
Dr G CHANDRA SEKHAR	Chemistry	Journal of applicable Chemistry	2019	2278-1862	www.joac.info	http://www.joac.info/ContentPaper/2019/13-8-2- 9-3.pdf	Yes
Dr G CHANDRA SEKHAR	Chemistry	Results in Chemistry	2019	<u>2211-7156</u>	https://www.sciencedirect.com/journal/results-in-chemistry	https://doi.org/10.1016/j.rechem.2019.100005	Yes
Dr SC Sanjeeva Reddy	Telugu	Bhavaveena	2020	2456-4702	https://telugujournalbhavaveena.blog spot.com/2020/	https://drive.google.com/file/d/1OJJ54jP- qKnWFbvg4ww_VFKOdjtxZO34/view	Yes
Dr SC Sanjeeva Reddy	Telugu	Telugu sahityam- samakalinatha	2020	2456-4702	https://telugujournalbhavaveena.blog spot.com/2020/	https://drive.google.com/file/d/1c6Lf3kPg 2d7czqx6bECXXmCTppivdTxe/view	Yes
Dr SC Sanjeeva Reddy	Telugu	Kanya shulkam natakam - samasya pariskaaram	2020	2456-4702	https://telugujournalbhavaveena.blog spot.com/	https://telugujournalbhavaveena.blogspot.com/2021/05/kvr-gdc-international-seminar-spl-book.html	Yes
Dr C Ramana Reddy	Political Science	International journal of emerging technologies and innovative research	2020	2349-5162	https://www.jetir.org/?gclid=EAlalQo bChMlz6LoydHFgQMVSnErCh1hlA KmEAAYASAAEgJWRPD BWE	http://www.jetir.org/view?paper=JETIR2011017	Yes
Dr G CHANDRA SEKHAR	Chemistry	GIS Science Journal	2021	1869-9391	https://gisscience.net/	DOI:20.18001.GSJ.2021.V8I5.21.37174	Yes
Sri. A. Venkateswarlu	Mathematics	Nonlinear Engineering,	2021	2192-8029		https://doi.org/10.1515/nleng-2021-0047	
Dr C Ramana Reddy	Political Science	International journal of emerging technologies and innovative research	2021	2349-5162	https://jetir.org/?gclid=EAIaIQobChM ljrr7zePFgQMV14BLBR3xCwkkEAA YASAAEgJHhvD_BwE	http://www.jetir.org/view?paper=JETIR2107118	Yes
Dr G CHANDRA SEKHAR	Chemistry	Chemical Thermodynamics and Thermal Analysis	2022	2667-3126		https://doi.org/10.1016/j.ctta.2021.100032	Yes
Dr SC Sanjeeva Reddy	Telugu	Neevu emina cheyagalavu	2022	2456-4702	https://telugujournalbhavaveena.blog spot.com/2022/02/	https://drive.google.com/file/d/12JZbSlejlbPiu86 rMv9lwCciQ-YY8WuL/view	Yes
Dr L Bhushan Kumar	Physics	International Journal of Materials Today: Proceedings 49 (7) (2022) A1-A6.	2022	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	http://dx.doi.org/10.1016/j.matpr.2021.12.554	Yes
Dr L Bhushan Kumar	Physics	International Journal of Applied Physics A Materials Science & Processing	2022	0947-8396	https://www.springer.com/journal/33	http://dx.doi.org/10.1007/s00339-022-05406-2	Yes





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Dr G CHANDRA SEKHAR	Chemistry	DESRT	2017	2277-9655	http://www.ijesrt.com/index.html	DOI: 10.5281/zenodo.839192	Yes
Dr G CHANDRA SEKHAR	Chemistry	IJESRT	2017	2277-9655	http://www.ijesrt.com/index.html	DOI: 10.5281/zenodo.801259	Yes
Dr G CHANDRA SEKHAR	Chemistry	IJESRT	2017	2277-9655	http://www.ijesrt.com/index.html	DOI: 10.5281/zenodo.573530	Yes
Sri P Sivarami Reddy	Physics	Science	2017	0973-1628	http://www.researchlink.in	Research link-160.vol-XVI(5), july 2017.page no.17-18	Yes
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Sri S Nagendra	English	Language in India	2018	1930-2940	/moo enjuided www.//.atth	http://www.languageinindia.com/june2018/sudh	Yes
Dr G CHANDRA SEKHAR	Chemistry	DESRT	2018	2277-9655	http://www.ijesrt.com/index.html	DOI:10.5281/zenodo.1206987	Yes
Sri S Nagendra	English	Language in India	2018	1930-2940	http://www.languageinindia.com/	http://www.languageinindia.com/july2018/nagen	Yes
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Dr C Ramana Reddy	Political Science	International journal of emerging technologies and innovatives researches	2018	2349-5162	https://www.jetir.org/?gclid=EAIaIQo bChMlz6LoydHFgQMVSnErCh1hIAK mEAAYASAAEqJWRPD BwE	https://www.jetir.org/?gclid=EAIaIQo bChMIz6LoydHFgQMVSnErCh1hIAK http://www.jetir.org/view?paper=IETIR181218	Yes
Dr G CHANDRA SEKHAR	Chemistry	Journal of Emerging Technologies and Innovative Research	2019	2349-5162	https://www.jetir.org/?gclid=EAIaI QobChMIz6LoydHFgQMVSnErCh1 hIAKmEAAYASAAEgJWRPD BwE	https://www.jetir.org/?gclid=EAIaI QobChMiz6LoydHFgQMVSnErCh1 https://www.jetir.org/view?paper=JETIR1904L2 hIAKmEAAYASAAEqJWRPD BwE 1	Yes
Dr G CHANDRA SEKHAR	Chemistry	Compliance Engineering Journal	2019	0898-3577	https://ijceng.com/	DOI:16.10089.CEJ.2019.V10I12.285311.2788	Yes
Dr G CHANDRA SEKHAR	Chemistry	Asian Journal of Research in Chemistry and Pharmaceutical Sciences	2019	2349-7106	Asian Journal of Research in Chemistry and Pharmaceutical Sciences. 7(1), 2019, 114	www.aircps.com/article/PHASE%20EQUILIBRI A%20FOR%20BINARY%20MIXTURES%20OF %20NONANE%20WITH%20OCTANE%20AN D%20OCTANE%20WITH%20OCTTHOXYI	Yes
Sri G Sivaiah	Maths	International Journal of Fluid Mechanics Research	2019	2152-5110		https://www.dl.begellhouse.com/journals/71cb2 9ca5b40f8f8.075354f82a6f0e6f.5b78fdd250a50 82e.htm#	Yes
Dr C Ramana Reddy	Political Science	International journal of emerging technologies and innovative research	2019	2349-5162	https://jetir.org/?gclid=EAIaIQobChM L.dib9dffgQMV0IVLBR2SDAFyEAA YASAAEgLkdfD BwE	http://www.jetir.org/view?paper=.IETIR1907240	Yes
Dr C Ramana Reddy	Political Science	International journal of emerging technologies and	2019	2349-5162	L dib9dfFgQMV0IVLBR2SDAFyEAA YASAAEgLkdfD_BwE		Yes





Yes	https://www.springer.com/journal/339 http://dx.doi.org/10.1007/s00339-022-05406-2	https://www.springer.com/journal/339	0947-8396	2022	Applied Physics A Materials Science & Processing	Physics	Dr L Bhushan Kumar
					International Journal of		
Yes	http://dx.doi.org/10.1016/j.matpr.2021.12.554	https://www.sciencedirect.com/journ al/materials-today-proceedings	2214-7853	2022	Materials Today: Proceedings 49 (7) (2022) A1-A6.	Physics	Dr L Bhushan Kumar
Yes	lbhavaveena.blog https://drive.google.com/file/d/12JZbSlejibPiu86	https://telugujournalbhavaveena.blog spot.com/2022/02/	2456-4702	2022	Neevu emina cheyagalavu	Telugu	Dr SC Sanjeeva Reddy
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Yes	http://www.jetir.org/view?paper=JETIR2107118	https://jetir.org/?gclid=EAIaIQobChM Jirr7zePFgQMV14BLBR3xCwkkEAA YASAAEgJHhvD_BwE	2349-5162	2021		Political Science	Dr C Ramana Reddy
	https://doi.org/10.1515/nleng-2021-0047	https://www.degruyter.com/journal/ke y/nleng/html	2192-8029	2021	Nonlinear Engineering,	Mathematics	Sri. A. Venkateswarlu
Yes	DOI:20.18001.GSJ.2021.V8I5.21.37174	https://gisscience.net/	1869-9391	2021	GIS Science Journal	Chemistry	Dr G CHANDRA SEKHAR
Yes	g/?gclid=EAIaIQo DMVSnErCh1hIAK http://www.jetir.org/view?paper=JETIR2011017 VRPD BwE	https://www.jetir.org/?gclid=EAIaIQo bChMIz6LoydHEgQMVSnErCh1hIAK mEAAYASAAEgJWRPD BwE	2349-5162	2020	international journal of emerging technologies and innovative research	Political Science	Dr C Ramana Reddy
Yes	https://telugujournalbhavaveena.blog.pot.com/2 bttps://telugujournalbhavaveena.blog.pot.com/2 bttps://telugujournalbhavaveena.blog.pot.com/2 book.html	https://telugujournalbhavaveena.blog	2456-4702	2020	Kanya shulkam natakam - samasya pariskaaram	Telugu	Dr SC Sanjeeva Reddy
Yes	https://telugujournalbhavaveena.blog https://drive.google.com/file/d/168Lf3kPg2d7cz	https://telugujournalbhavaveena.blog	2456-4702	2020	Telugu sahityam- samakalinatha	Telugu	Dr SC Sanjeeva Reddy
Yes	https://telugujournalbhavaveena.blog https://drive.google.com/file/d/10JJ54jP-spot.com/2020/	https://telugujournalbhavaveena.blog	2456-4702	2020	Bhavaveena	Telugu	Dr SC Sanjeeva Reddy
Yes	https://doi.org/10.1016/j.rechem.2019.100005	https://www.sciencedirect.com/journ al/results-in-chemistry	2211-7156	2019	Results in Chemistry	Chemistry	Dr G CHANDRA SEKHAR
Yes	http://www.joac.info/ContentPaper/2019/13-8-2- 9-3.pdf	www.joac.info	2278-1862	2019	Journal of applicable Chemistry	Chemistry	Dr G CHANDRA SEKHAR
Yes	http://www.ajicps.com/article/PHASE%20EQUI LIBRIA%20FOR%20BINARY%20MIXTURES% 20OF%20NONANE%20WITH%20OCTANE%2 0AND%20OCTANE%20WITH%20ORTHOXYL ENE.%20METAXYLENE%20AT%20101.3%20	Asian Journal of Research in Chemistry and Pharmaceutical Sciences 7(1) 2019 305-314	2349-7106	2019	Asian Journal of Research in Chemistry and Pharmaceutical Sciences	Chemistry	Dr G CHANDRA SEKHAR





Original Article

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MHD DOUBLE DIFFUSIVE FLUID FLOW THROUGH A ROTATING POROUS PLATE WITH CHEMICAL REACTION

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Abstract

An attempt has been made to analyze the characteristics of MHD rotating double diffusive and chemically reactive fluid flow past a vertical porous plate with thermal radiation and heat generation. The non-dimensional governing equations involved in the present analysis are solved by using finite difference technique. The effects of various physical parameters on velocity, temperature and concentration along with skin friction, the rate of heat transfer in the form of Nusselt number and the rate of mass transfer in the form of Sherwood number are studied through the graphs and tables.

Keywords: Double diffusion, Chemical reaction, MHD, Rotating fluid, Thermal radiation, Porous plate, Heat generation.

1. INTRODUCTION

Simultaneous heat and mass transfer from different geometries embedded in porous medium has many Engineering and Geophysical applications such as geothermal reservoirs, drying of porous solids, thermal insulation, enhanced oil recovery, packed bed catalytic reactors, cooling of nuclear reactors, and underground energy transport. The science of magneto hydrodynamics (MHD) was concerned with geophysical and astrophysical problem for a number of years. In recent years, the possible use of MHD is to affect a flow stream of an electrically conducting fluid for the purpose of thermal protection. braking, propulsion and control. From the point of applications, model studies on the effect of magnetic field on the convection flow have been made by several investigators. From technological point of view, MHD convection flow problems are also very significant in the field of stellar and planetary magnetospheres, aeronautics, chemical engineering and electronics. Model studies of the above phenomena of MHD convection have been made by many.

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Research Link + 159, Vol - XVI (4), June - 2017, Page No. 26-28 773-1026 RNI - MPHIN-2002-7041

Persistance of Vision for Alphabet Recognition

Technology is growing by the day, and its advancement in the field of visual display has been phenomenal as well. This paper deals with one of several phenomena dealing with visual display called the Persistence of Vision Display (POV). Persistence of vision refers to the phenomenon of the human eye in which the afterimage exists for a brief time (10 ms). A POV display uses this same phenomenon by spinning a one dimensional array of LEDs through two dimensional space at such a speed that a two dimensional cylindrical display is visible. This movement is achieved by placing the LEDs on a motor shaft. The rotational speed is so maintained that the human eye perceives a two dimensional image. Rather than display a monotonous stream of letters we have established a link between an alphabetrecognition system and the display system using a ZigBee. At the transmitter end, i.e., the alphabet recognition end, a set of four switches are placed which aid in the incrementing and decrementing of the letters of the alphabet, incrementing the cursor to the next position and sending the set string of data through ZigBee. The transmitting section uses an AT89S52 for recognizing the alphabet and transmitting it. The receiver section of Zig Bee receives this string of data and displays it on the rotating LEDs. On the receiver end we use an AT89C2051 microcontroller which has an inbuilt LED driver to reduce the weight and space on the module. Key Words: Persistance, Vision, ZigBee, Microcontroller, One and two dimensional Image.

P. SIVA RAMI REDDY* & I.V. SUBBA REDDY**

Introduction :

The core idea of the project revolves around the single phenomenon of persistence of vision. Persistence of vision is a phenomenon pertaining to the ability of the eye, where the afterimage seen continues to exist in the retina for a certain period of time (approx. 10ms). Many people have proposed methods using multiplexers, shifters, timers, microcontrollers, etc. to exhibit this phenomenon. This work enables a display of text of desired length at a low cost and high efficiency.

In the paper [1] a PIC microcontroller is used along with latches which are used for multiplexing the signal. The display is obtained on an LED array. This type of display has the option of showcasing text or a clock based on choice. The text to be showcased is the same as the text that has been preprogrammed in the microcontroller.

In paper [2] a rotating display is created using an AT89C52 microcontroller along with anRTC (real time clock). This display deals with the showcasing of time and date using the RTC. RTCs are usually used in mobiles orcomputers or in instruments where a high accuracy of time keeping is required. So, in this display the RTC is used to keep the time and day up-to-date. Every time the display is turned on the date and time at that particular moment is shown. This is achieved by a single column of 8 LEDs

working on the principle of persistence of vision.

The Propeller Clock [3] uses the concept of persistence of vision to display a live clock. The paper makes a case for creating a circular display instead of the conventional cylindrical display. An optocoupler is used to provide interrupts to the microcontroller. An AT89C2051 microcontroller is used to reduce weight of the POV display.

In paper [4], Persistence of vision control is achieved using an Arduino microcontroller. This microcontroller is faster, performs better and is more efficient. The whole kit works with an android operating system. Instead of using the conventional single color LEDs, an RGB LED is used here, which emits three colors. The display of the message is governed by any android device connected to the Arduino board.

The spinning LED display using radio frequency takes the concept of rotating displays using a single column of LEDs a step further. In paper [5], the users are operating a preprogrammed AT89S52 microcontroller, i.e., the message to be displayed is already dumped into the microcontroller. They also have the option of changing the message by simply reprogramming the microcontroller or establishing a communication link between the display and a PC using RF frequencies. This link enables the user to send a stream of data to be displayed from the PC.

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(2) Proposed Work:

Energy crisis is one of the most acute problems concerning the world today. Saving power should be of the highest priority on everyone's agenda. But the way the world is growing, it is encouraging the rise of new industries and entertainment and amusement zones. These industries and amusement parks require the installation of display units which consume a lot of power. This work shows how by using a single column of LEDs to make display units, we can reduce our increasing consumption of power. These units can display any message using transmitter boards.

(3) Components:

The following are the components used in this system:
(1) Microcontroller:

This system uses two microcontrollers:

(i) AT89S52: The heart of our transmitter section is the AT89S52. The 8 bit microcontroller has 8K of in-system programmable flash memory and 256 bytes of RAM. The microcontroller has 32 I/O lines. The microcontroller also houses a full duplex serial communication port and a set of three 16bit timers/counters. The microcontroller works on two modes, an idle mode and a power down mode.

(ii) AT89C2051: In our receiver section we are using the AT89C2051 microcontroller. This 8 bit microcontroller has 2K of in-system programmable flash memory and 128x8 bytes of RAM. The microcontroller has 15 I/O lines. It has a programmable serial communication port. The microcontroller has direct LED drive output lines.

(II) Liquid Crystal Display (LCD):

The LCD connected to the microcontroller is a 16x2 display. With the LCD, if an 8bit data bus is used, then the LCD will require 11 data lines (3 control lines and 8 lines for the data bus). These three control lines are referred to as EN (Enable), RS (Register select), and RW (Read/Write). The Enable pin is used to tell the LCD that we are sending the data. If the Register Select pin is low it means that the data is treated as a command and if it is high then the data sent is text. If the Read/Write pin is low it means that the data is written and if it is high, the data is read, provided the register select pin is high.

(III) ZigBee:

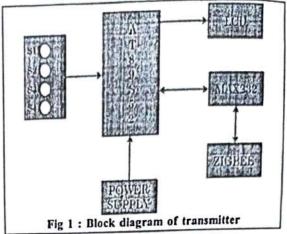
ZigBee is a transceiver module which communicates using the RF frequencies. It transmits and receives data at 9600 baud rates from any CMOS/TTL source. It works in half duplex mode, i.e., the data can be sent only in one direction at a time. ZigBee is a low-power and low-cost communication module.

(IV) MAX 232:

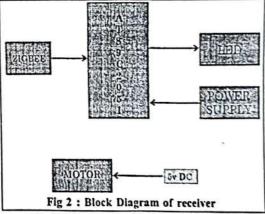
MAX 232 chips are used to convert the given voltages to RS 232 communication standards. MAX 232 is also referred to as a line driver. It works on the principle of charge pumping. This IC is the best at noise rejection and is also very reliable against discharges and short circuits.

(4) Implementation :

The block diagram I shows the transmitter section of



the module. The heart of this transmitter circuit is the AT89S52 microcontroller. In the transmitter section there are four switchesS1, S2, S3, S4. S1 is used for incrementing the alphabet, S2 for decrementing the alphabet, S3 is used for incrementing the cursor to the next position, and S4 is used for transmitting the data serially using ZigBee. The desired string is typed using the switches (S1, S2, and S3). The LCD connected to the module will help the user see what has been typed. Once the desired string has been typed it can be transmitted by pressing S4. Max 232 now converts the string into RS 232 compatible standards and transmitsthe typed text to the receiver section with the help of ZigBee.



The above block diagram shows the receiver section of the module. The heart of the receiver circuit is the AT89C2051 microcontroller. This microcontroller is used because it has the capability of directly driving the LEDs, therefore LED driver chips need not be used. This reduces the weight of the module. The ZigBee on the receiver section receives the data and sends it to the microcontroller. Based on the data received, the microcontroller either switches the LED on or off for the specified period of time. This setup is mounted on a motor. When the motor is switched on, the module starts rotating at a calculated number of rotations per minute. The single column of LEDs rotating in a cylindrical column displays the entered string.

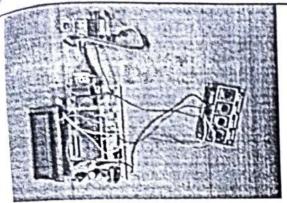


Fig 3 : Prototype development board (Transmitter)

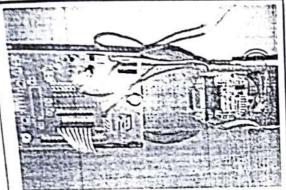


Fig 4: Prototype development board (Receiver) top

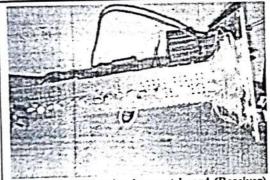


Fig 5 : Prototype development board (Receiver)

(5) Software :

Initially, in the transmitter section, the LCD and serial ports are reset for initialization. A message "WELCOME" is displayed on the LCD screen. The microcontroller then redirects the LCD to a blank screen whichdisplays a cursor and the letter 'A'. The LCD then awaits the next command. If S1 (switch 1) is pressed on the kit an increment of characters occurs until the desired character is obtained. Once the desired character is obtained, S3 (Switch 3) should be pressed for the cursor to move to the next position on the LCD. In the same manner S2 (switch 2) is used to decrement the alphabet count. Once the desired string of data is set on the LCD, S4 (switch 4) should be pressed which transmits the string of data using a ZigBee.

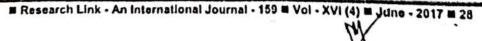
In the receiver section, initially the serial and timer registers are reset. The ports to which the LEDs are connected are also reset. By doing this the serial timer registers and the LED ports are initialized. The microcontroller now checks if there is any data being received at the ZigBee. If there is data being received, the microcontroller checks which character is being received. Based on the character received an appropriate time delay is created for the LED to be ON or OFF. If there is no data being received a preprogramed message saying "HELLO" is displayed on the LED array.

(6) Applications: The advantage of the present work is that it consumes much less power than the display units in use in the market now. This work enables the user to display a desired string rather than a monotonous string. This work is also light to carry around. The user doesn't require a PC or a programmer to reframe the display message. All that the user needs is a transmitter board.

Conclusion: Energy efficiency is a growing demand in today's world and so is modernization with technology. This work combines both by creating a user friendly display at low cost with high efficiency and low power consumption.

References :

(1) Microcontroller Based Control System for Rotating Display with Multiplexed LED Array, Ioan LITA, Daniel Alexandra VISAN, published in Electronics, Computers and Artificial Intelligence (ECAI), 2013 International Conference. (2) Rotating display, Debopam Ghosh, Anirban Mukherjee, Jyotirmoy Guha, Arka de, at National student paper and circuit design 2012. (3) "PROPELLER CLOCK" Mechanically Scanned LED Clock, Bhanu Pratap, Khushboo Kumari, Ankita Raturi & Abhishek Joshi, Published in ISSN (PRINT): 2320 8945, Volume -1, Issue -5, 2013. (4) Persistence of Vision control using Arduino. Robinson P. Paul, Ghansyam B. Rathod, Vishwa R. Trivedi, Punit V. Thakkar, published in International Journal of Intelligent Systems and Applications (IJISA)IJISA Vol. 6, No. 1, December 2013. (5) Spinning LED Display using Radio Frequency. Apeksha Sarode, Deepali Madhukar Salunke, Akshaydutta Laxmidutta Shukla & Manvi Mukesh Sonawadekar, Published in International Journal of Computer Science and Informatics (IJCSI) ISSN (PRINT): 2231 5292, Vol-2, Iss-4, 2012. (6) Zhaoyou Zhu and Sheng-hui Dai, "Embedded LED Lighting Control System Research and Implementation, " 2nd IEEE International Conference on Computer Science and Information Technology, pp.553-557, 2009. (7) Shih-Mim Liu. Ching-Feng Chen and Kuang-Chung Chou; "The design and implementation of low cost 360-gedree LED display system' IEEE Access number-12158048, July-2011. (8) Jianguo Hu: Shangzhi Wu ; Ke Lin ; Hongzhou Tan, "Low-power supply circuits for RFID transponder" IEEE access number - 10845354. May-2009. (9) Anaheim, CA. Coltheart M. Technical reference detailing the LED displayarray, RFinterface and scanning circuit was included as part of the 1978, 29th ISEF exhibition. (10) Philos Trans R Soc Lond B Biol Sci. 1980 Jul 3: 290(1038):5769.PMID 6106242."The 8051 microcontroller and Embedded Systems" (11) M. Gately, Z. Yan, M. Yeary, E. Petrick. L. Sawalha, "A Three-Dimensional Swept Volume Display Based on LED Arrays", Journal of Display Technology, Vol. 7, Issue 9, pp. 503-514, 2011.





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INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY

ANALYSIS OF NITROFURATOIN IN BULK DRUG AND PHARMACEUTICAL DOSAGE FORMS BY HPLC METHOD

G.Chandra Sckhar*, B.Satyanarayana, P.Sugunab, B.Narasimhulub Department of Chemistry, Govt. degree &PG college, Puttur; A.P.; India SGS Arts college, TTD, Tirupati, A.P; India

DOI: 10.5281 renodo.573530

ABSTRACT

A simple, economic, selective, precise, and accurate High Performance liquid Chromatographic method for the analysis of Nicoberatoin in bulk drig and pharmaceutical formulations was developed and validated in the present each. The mobile phase consists of a mixture of Acetonitrile and buffer 88:12. And adjust the pH to 5.0 ± 0.05 with section by drovide solution. This was found to give a sharp peak of Nitrofuratoin at a retention time of 8.423 min. HFI C analysis of Nitrofuratoin was carried out at a wavelength of 254 nm with a flow rate of 1.6 mL/min. The linear regression analysis data for the calibration curve showed a good linear relationship with a regression exertiseers of 0,000 m the concentration range of 50 to 150 µg ml⁻¹. The linear regression equation was y =53.412th-100.00 The developed method was employed with a high degree of precision and accuracy for the analysis of Nitrofuratorn. The developed method was validated for accuracy, precision, robustness, detection and questionable limits as per the ICH guidelines. The wide linearity range, accuracy, sensitivity, short retention time and composition of the mobile phase indicated that this method is better for the quantification of

KEYWORDS: Nitrofuratoin. HP.C. Validation.

INTRODUCTION

Several materials have been tested toward this aim, including solid amalgam electrodes (SAE), carbon paste electrodes (CPE), ranotube carbon paste electrodes (NTCPE), glassy carbon electrodes (GCE), solid composite electrodes (SCE) and boron-doped diamond film electrodes (BDDFE). Several reviews illustrating the use of these the electroanalytical field have been published years [1], [2], [3], [4], [5], [6], [7], [8], [9], [10] and [11].

Among these materials, BDDFE has attracted the attention of electroanalytical researchers as a candidate for the electrochemical determination of pharmaceutical compounds, since BDDFE presents a stable background current, wide potential window for aqueour and non-aqueous electrolytes, high thermal conductivity, high hardness, high electrochemical stability, low organic molecule adsorption and high sensitivity for analytical babose [2] [8] [6] [13] [13] *4 [14]

However, little attention has been given in the literature concerning the influence of different boron-doping levels on the electrochemical response of the pharmaceutical compounds. In addition, some reports have been published showing that netrofurazione, which is in the group of nitrofuran antibacterial agents, has a good electrochemical response on the BDDFE [15] and [16]. This enables the application of this electrode for the electrochemical detection and quantification of compounds belonging to the nitrofuran group. Among them, nitrofurantoin [NFT; 1-((5-netro-2-furfury)) idenc)-1-amino) hydantoin) is a drug synthesized from nitrofuran that is very useful in the treatment of urmany tract diseases. Depending on its concentration at the inflammation site, this drug may act as a bacteriostatic or bactericidal agent [17]. As pointed out by Hamman [17], this drug can act against various gram meluding Citrobacter, Corynehoczerium, Enterobacter, Escherichiaculi, Klehsiella Neisseria, Salmonella, Staph photocrossurers and Enterococcus faecalis. It is efficient against these bacterias in the concentration range of 1-32 µg ml. However, this drug is partially metabolized, and 24 h after the application of a single oral close, 30-

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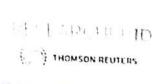


Mohit Ratra*, Naman Jain

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[Satyanarayanaa* et al., 6(5); May, 2017]

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INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY

SPECTROPHOTOMETRIC DETERMINATION OF METALAZONE AND IN ITS COMMERCIAL FORMULATIONS

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* SGS Arts college, TTD, Tirupati, A.P, India
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DOI: 10.5281/zenodo.801259

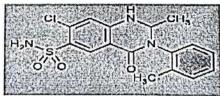
ABSTRACT

A simple, précise, rapid sensitive and accurate spectro phoptometric methods have been developed for the estimation of Metalazone in pure form and its formulations and Spiked vegetables and water samples. This method is based on complex formation of Metalazone with 2,2-BP in the presence of Ferric chloride to form coloured product with maximum of 620 nm. The product obeyed Beer's law in the concentration range 0.4-2.4 ml (4-24 µgml-1) with molar absorptivity of 0.4029x10⁴. Sandells sensitivity 0.00945. The assay of results was found to be good agreement with label claim.

KEYWORDS: Metalazone. UV. Validation.

INTRODUCTION

Metolazone is chemically 7-chloro-2-methyl-3-(2-methylphenyl)-4-oxo-1, 2-dihydroquinazoline- 6-sulfonamide [3] (Structure-1). Metolazone is an oral diuretic drug, commonly classified with the thiazide diuretics. It is primarily used to treat congestive heart failure and high blood pressure. Metolazone indirectly decreases the amount of water reabsorbed into the bloodstream by the Kidney, so that blood volume decreases and urine volume increases. This lowers blood pressure and prevents excess fluid accumulation in heart failure. The emperical formula for Metolazone is C₁₆H₁₆ClN₃O₃S and the molecular weight is 365.84 grams.



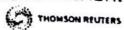
Metolazone (Structure-1)

Literature review reveals that methods have been reported for analysis of Metolazone. Ultra-Violet and Derivative spectrophotometric methods for estimation of Metolazone in pharmaceuticals ^{2&5.8}. A Validated UV spectrophotometric method of Metolazone in Bulk and its Tablet Dosage forms ^{3&9.11}. Validated RP-HPLC method for simultaneous quantitation of Losartan potassium and Metolazone in bulk drug and formulation ^{4&12-17}. Validated HPTLC Method for Simultaneous Estimation of Ramipril and Metolazone in Bulk Drug and formulation ^{1&18-21}. LC-MS-MS development and validation for simultaneous quantitation of Metolazone with other drug in human plasma.

There is however no reported HPLC and UV- Visible spectrophotometric method for the analysis of Metolazone in its technical grade and formulations. This chapter describes a validated HPLC and UV-Visible spectrophotometric methods for the quantitative determination of Metalazone Functional group used for color development of Metalazone was primary amine group. The results obtained in this method was based on reaction of Metalazone with complex formation with 2, 2- Bipyridine/ Ferric chloride. An attempt has been made to develop and validate all methods to ensure their accuracy, precision, repeatability, reproducibility and other analytical method validation parameters as mentioned in the various guidelines.

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INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY

SPECTROPHOTOMETRIC DETERMINATION OF AMETRIDIONE AND IN ITS COMMERCIAL FORMULATIONS

G.Chandra Sckhar'i, B.Sathyanarayana2 & P.Suguna3 "Department of Chemistry, Govt. degree & PG College, Puttur(A.P) Department of Chemistry, SGS Arts College, Tirupati(A.P)

DOI: 10.5281/zenodo.1206987

ABSTRACT

A simple, precis, rapid sensitive and accurate spectrophoptometric methods have been developed for the estimation of Ametridione in pure form and its formulations and Spiked vegetables and water samples. This method is based on oxidative coupling of Ametridione with MBTH in the presence of Ferric chloride to form green colored product with Maximum of 615nm. The product obeyed beers law in the concentration range 0.5-3 ml (5-30 µgml⁻¹) with molar absorptivity of 1.001x10⁴. Sandel's sensitivity 0.004945. The assay of results was found to be good agreement vith label claim.

Keywords: Ametridione. UV. Validation.

INTRODUCTION

A survey of the literature revealed that different analytical techniques for the assay of MTM have been reported. Voltametric detection of the herbicide Ametridione at a bismuth film electrode in non deaerated solution Electroanalisis of Ametridione and metribuzen on lignin By Adsorption², Electrochemical reduction of Ametridione3, Identification of different products obtained by electrochemical and photochemical reduction of the Ametridione4 Voltametric determination of Ametridione with an elctrogenerated molecularity imprinted polymer microsencer⁵ Electrochemical determination of the effect of lead (II) on the photochemical degradation of the pesticide Ametridione Voltametric determination of Herbicide Ametridione using Mercury and silver solid amalgam electrode' Preconcentration and voltametric determination of the herbicide Ametridione with a sílica modified carbon paste elec.rodes Determination and method validation of Ametridione in soil by RP-HPLC Electrochemical determination of the effect of Copper (II) on the photochemical degradation of the pesticide Ametridione10.

There is however no reported U:- Visible spectrophotometric method for the analysis of Mitamitron in its technical grade and formulations. This describes a validated UV- visible spectrophotometric method for the quantitative determination of Mitamitron. Functional group used for color development of Mitamitron was primary amine group. The results obtained in this method were based on complex formation reaction of Mitamitron with Oxidative coupling reaction with MBTH / Ferric chloride.

The author has developed UV- Vivible spectrophotometric method based on the use of method, without use of any interferences. An attempt has been made to develop and validate all methods to ensure their accuracy, precision, repeatability, reproducibility and other analytical method validation parameters as mentioned in the various guidelines.

This is describes a validated UV-Visible method for the quantitative determination of Ametridione. The empirical formula for Ametridione is ClottioN4O and the molecular weight is 202.2 grams, it has the following structure.



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CHEMISTRY

Dr G. Chandra Sekhar Principal (Lecturer in) Chemistryi SCNR GDC Proddatur

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INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY

DIFFERENTIAL PULSE VOLTAMMETRIC DETERMINATION OF CINITAPRIDE USING CARBON PASTE ELECTRODE

D. Sri Vidya, G. Chandra Sekhar*, V. Prabhakara Rao, K. Aruna *Electroanalytical Lab, Department of Chemistry, Govt. degree & P.G college, Puttur, Chittoor (Dt), Andhra Pradesh, India

DOI: 10.5281/zenodo.839192

ABSTRACT

The voltammetric performance of cinitapride (CNTP) was investigated at carbon paste electrode using differential pulse voltammetry and cyclic voltammetry. The drug under study exhibited a single, well-defined reduction peak owing to the reduction of NO2. The electrode and reaction conditions which yielded maximum peak current were established using differential pulse voltammetry. A linear relationship was observed between the peak current and the concentration of CNTP over the range 2.35x10-6 M to 4.25x10-4M. The limits of detection and limits of quantitation were found to be 6.55x10° M to 7.42x10° M respectively. The proposed method was successfully applied for the determination of CNTP in pharmaceutical formulations without interference from excipients

KEYWORDS: cinitapride; differential pulse voltammetry; cyclic voltammetry; Carbon paste electrodes.

INTRODUCTION

Cinitapride (CNTP) (Fig.1) is chemically, 4-Amino-N-[1-(3-cyclohexen-1-ylmethyl)-4- piperidinyl]-2-ethoxy-5-nitrobenzamide and a gastroprokinetic drug1. Regarding cinitapride, the determination of this drug can be accomplished using spectrophotometric methods². Previously few methods are reported such as spectrophotometric^{3,4} and HPLC³ methods for determination of cinitapride in pharmaceutical dosage forms. By keeping all this in view, it was thorough worthwhile to develop stability indicating HPLC method. Literature survey reveals some chromatographic and polarographic methods have been used for the determination of CNTP⁶⁻¹⁰. Roy et al. reported RP-HPLC Method for the Determination of Cinitapride in the Presence of its Degradation Products in Bulk Drug11. Hitesh et al. Development and validation of HPTLC method for simultaneous estimation of cinitapride and omeprazole in combined

Cinitapride (CNTP) (Figure.1)

Carbon paste electrodes (CPEs) belong to promising electrochemical or bioelectrochemical sensors of wide applicability. In 2008, it was exactly a half century since Ralph Norman Adams from the University of Kansas published a short one-page report. The base of modified carbon pastes is usually a mixture of powdered graphite and nonelectrolytic binder 14-16. This work aimed to study the reduction of CNTP at carbon paste

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CONTEMPORARY RESEARCH IN INDIA (ISSN 2231-2137): VOL. 7: ISSUE: 2 (2017)



GEOPHYSICS: AN OVERTURE

P. Sivarami Reddy, Lecturer in Physics, S.C.N.R Govt. Degree College, Proddatur Town, YSR Dist, A.P.

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Abstract: Geophysics is applied to societal needs, such as mineral resources, mitigation of natural hazards and environmental protection. Geophysical survey data are used to analyze potential petroleum reservoirs and mineral deposits, locate groundwater, find archaeological relics, determine the thickness of glaciers and soils, and assess sites for environmental remediation. Geophysics is the science which deals with investigating the Earth's internal structure dynamics, using the methods and techniques of Physics and Mathematics.

Key words: Geophysics, Interdisciplinary physical science, Geology.

Geophysics is an interdisciplinary physical science concerned with the nature of the earth and its environment and as such seeks to apply the knowledge and techniques of physics, mathematics and chemistry to understand the structure and dynamic behavior of the earth and its environment. The required sequence of Mathematics, Physics and Geophysics courses is designed to provide a basic structure on which to build a program with science electives normally selected from Geology, Astronomy, Oceanography, Mathematics, Physics and Chemistry courses.

Geophysics is a subject of natural science concerned with the physical processes and physical properties of the Earth and its surrounding space environment, and the use of quantitative methods for their analysis. The term geophysics sometimes refers only to the geological applications: Earth's shape; its gravitational and magnetic fields; its internal structure and composition; its dynamics and their surface expression in plate tectonics, the of magmas, volcanism and rock generation formation. However, modern geophysics organizations use a broader definition that includes the water cycle including snow and ice; fluid dynamics of the oceans and the atmosphere; electricity and magnetism in the ionosphere and magnetosphere and solar-terrestrial relations; and

analogous problems associated with the Moon and other planets.

Although geophysics was only recognized as a separate discipline in the 19th century, its origins date back to ancient times. The first magnetic compasses were made from lodestones, while more modern magnetic compasses played an important role in the history of navigation. The first seismic instrument was built in 132 BC. Isaac Newton applied his theory of mechanics to the tides and the precession of the equinox; and instruments were developed to measure the Earth's shape, density and gravity field, as well as the components of the water cycle. In the 20th century, geophysical methods were developed for remote exploration of the solid Earth and the ocean, and geophysics played an essential role in the development of the theory of plate tectonics.

Geophysics is applied to societal needs, such as mineral resources, mitigation of natural hazards and environmental protection. Geophysical survey data are used to analyze potential petroleum reservoirs and mineral deposits, locate groundwater, find archaeological relics, determine the thickness of glaciers and soils, and assess sites for environmental remediation.

Geophysics is the science which deals with investigating the Earth's internal structure dynamics,

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CONTEMPORARY RESEARCH IN INDIA (ISSN 2231-2137): VOL. 7(ISSUE: 2 (2017)

using the methods and techniques of Physics and Mathematics. The physical properties of earth materials such as density, clasticity, magnetization, and electrical conductivity all allow inference about those materials to be made from measurements of the corresponding physical fields - gravity, seismic waves, magnetic fields, and various kinds of electrical fields. Because Geophysics incorporates the sciences of Physics, Mathematics, Geology it is a truly multidisciplinary physical science.

Definitions:

Geophysics is the application of physics to study of the solid earth. It occupies an important position in earth sciences. It has been taught principally in Earth sciences departments of university. There is an obvious need for it to introduce to engineers and archaeologists much more widely than at present. Geophysics is developed from the disciplines of physics and geology and has no sharp boundaries that distinguish it from either.

The use of physics to study the interior of the Earth, from land surface to the inner core is known as solid earth Geophysics. Solid Earth Geophysics can be subdivided into Global Geophysics or pure Geophysics and Applied Geophysics. 'Global Geophysics' is the study of the whole or substantial parts of the planet. Geophysical methods may be applied to a wide range of investigations from studies of the entire earth to exploration of a localized region of the upper crust, such as plate tectonics, heat flow and paleomagnetism. 'Applied Geophysics' is the study of the Earth's crust and near surface to achieve an economic aim, or making and interpreting measurements of physical properties of the earth to determine subsurface conditions usually with an economic objectives (e.g. discovery of fuel or mineral depositions). Applied Geophysics Comprises the following subjects:

- Determination of the thickness of the crust (which is important in hydrocarbon exploration.
- Study of shallow structures for engineering site investigations.

- Exploration for ground water and for minerals and other economic resources.
- Trying to locate narrow mine shafts or other forms of buried cavities.
- 5- The mapping of archaeological remains.
- 6- Locating buried piper and cables.

Engineering Geophysics: the application of geophysical methods to the investigation of near-surface physic-chemical phenomena which are likely to have (significant) for the management of the local environment.

The discipline of environmental geophysics needs to bring to the attention of policy-makers and planners. The principal distinction between engineering and environmental geophysics is that the former is concerned with structures and types of materials, whereas the latter can also include mapping variations in pore fluid conductivities to indicate pollution plumes within ground water, for examples:

- Geophysics can be used to investigate contaminated land to locate polluted areas prior to direct observations using trail pits and boreholes. Large areas can be surveyed quickly at relatively low cost.
- The alternative and more usual approach is to use a statistical sampling techniques, the geophysical survey is used to locate anomalous areas and there will be a higher certainly that the constructed trail pits and boreholes will yields useful results.
- Geophysics is also being used much more extensively over landfills and other waste repositories.
- Geophysics can be used to locate a corroded steel drum containing toxic chemicals. To probe for it poses the real risk of puncturing it and creating a much more significant pollution incident.
- By using modern geomagnetic surveying methods, the drum's position can be isolated and a careful excavation investigated to remove the offending (hurt) object without damage. Such

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approach is cost effective and environmentally safer.

- Geophysics investing of the interior of the earth involve taking measurements at or near the earth's surface that are influenced by the internal distribution of physical properties.
- Analysis of these measurements can reveal how the physical properties of the earth's interior vary vertically and laterally.
- Exploration geophysics developed from the methods used in global geophysics.

History of Geophysics: The beginning of geophysics has been started since: a- Gilbert's discovery which stated that the earth behaves as a great and irregular magnet. b- Newton's theory of gravitation.

- The initial step in the application of geophysics to the search for minerals was taken in 1843 by von warde which used the magnetic theodolite of Lamont to discover magnetic ore bodies.
- In 1879 a book by Robert Thalen was published entitled" on the examination of iron ore deposits by magnetic methods".
- At that time, the first magnetometer called Thalen-Tiberg magnetometer was manufactured in Sweden.
- During the past seventy years, geophysics was used greatly in oil and gas exploration and many geophysical techniques have been developed for the detection and mapping of unseen deposits and structures.
- Advances have been rapid during the past decade because of the development of new electronic devices for field equipment and the widespread applications of the digital computer in the interpretation of geophysical data.
- Several of the devices now used by geophysicists were developed from methods used for locating guns, submarines and aircraft during the two world wars.

Geophysics is a highly interdisciplinary subject, and geophysicists contribute to every area of the Earth sciences. To provide a clearer idea of what constitutes geophysics, this section describes phenomena that are studied in physics and how they relate to the Earth and its surroundings. The gravitational pull of the Moon and Sun give rise to two high tides and two low tides every lunar day, or every 24 hours and 50 minutes. Therefore, there is a gap of 12 hours and 25 minutes between every high tide and between every low tide.

Geophysical fluid dynamics is a primary tool in physical oceanography and meteorology. The rotation of the Earth has profound effects on the Earth's fluid dynamics, often due to the Coriolis Effect. In the atmosphere it gives rise to large-scale patterns like Ross by waves and determines the basic circulation patterns of storms. In the ocean they drive large-scale circulation patterns as well as Kelvin waves and Ekman spirals at the ocean surface. In the Earth's core, the circulation of the molten iron is structured by Taylor columns.

Waves and other phenomena in the magnetosphere can be modelled using magneto hydrodynamics. Geophysical measurements are generally at a particular time and place. Accurate measurements of position, along with earth deformation and gravity, are the province of geodesy. While geodesy and geophysics are separate fields, the two are so closely connected that many scientific organizations such as the American Geophysical Union, the Canadian Geophysical Union and the International Union of Geodesy and Geophysics encompass both.

Absolute positions are most frequently determined using the global positioning system (GPS). A three-dimensional position is calculated using messages from four or more visible satellites and referred to the 1980 Geodetic Reference System. An alternative, optical astronomy, combines astronomical coordinates and the local gravity vector to get geodetic coordinates. This method only provides the position in two coordinates and is more difficult to use than GPS. However, it is useful for measuring motions of the Earth such as mutation and Chandler wobble, Relative positions of two or

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more points can be determined using very-long-baseline interferometry.

Gravity measurements became part of geodesy because they were needed to related measurements at the surface of the Earth to the reference coordinate system. Gravity measurements on land can be made using gravimeters deployed either on the surface or in helicopter flyovers. Since the 1960s, the Earth's gravity field has been measured by analyzing the motion of satellites. Sea level can also be measured by satellites using radar altimetry, contributing to a more accurate geoid. In 2002, NASA launched the Gravity Recovery and Climate Experiment (GRACE), wherein two twin satellites map variations in Earth's gravity field by making measurements of the distance between the two satellites using GPS and a microwave ranging system. Gravity variations detected by GRACE

include those caused by changes in ocean currents; runoff and ground water depletion; melting ice sheets and glaciers.

Relation between Geology and Geophysics:

GEOLOGY: It involves the study of the earth by direct observations on rocks either from surface exposures or from boreholes and the deduction of its structures, composition and historical evolution by analysis of such observations.

GEOPHYSICS: It involves the study of the inaccessible earth by means of physical measurements, usually on or above the ground surface. It also includes interpretation of the measurements in terms of subsurface structures and phenomena.

Geophysical studies are quantitative and tangible, whereas geological studies are qualitative and descriptive.

References:

- 1. Dubey, Neeraj (2016): "Geophysics", Research Link, Vol. XV, December, 2016.
- Fowler, C.M.R. (2005). The Solid Earth: An Introduction to Global Geophysics (2 ed.). Cambridge University Press. ISBN 0-521-89307-0.
- 3. Lowrie, William (2004). Fundamentals of Geophysics. Cambridge University Press. ISBN 0-521-46164-2.
- 4. Reynolds J.M. (1997): An introduction to applied and environmental geophysics. John Wiley and sons Ltd, England.





Monthly Journal :

- 2017, Page No. 17-19 Research Link - 160.

Autonomous Robot

In today's world the field of automated technology has advanced to a very high extent. Robotics is already playing a very pivotal and cutting edge role in diverse sectors such as manufacturing, avionics, medicine, defense, automobile & entertainment to name a few. In this paper, we are dealing with an autonomous robot which has capabilities like speech recognition, color recognition, face recognition, motion tracking & obstacle avoiding while the whole robot is controlled through Bluetooth protocol. The goal of this project is to design a robot that communicates with a computer. We are using a PIC microcontroller which is the heart of the robot. The communication pins of the microcontroller are used to connect to the Bluetooth module which helps in establishing a link between the robot and the computer. A motor driver is also used to aid in the movement of the robot. An ultrasonic distance sensor is used for obstacle avoidance. When a command is given to any servo, the controller sends out a digital signal to rotate the servo to the desired position. An mp3 trigger is used to achieve sound output of the mp3 files stored on the memory card. The robot can also be controlled through a mobile or a tablet. It has an auto navigation system and moves on every possible rough surface. Key Words: Autonomous, Bluetooth protocol, PIC microcontroller, ultra sonic sensor, motor drive, mp3 trigger.

P.Siva Rami Reddy*, Vishal Kumar Agarwal**, Bhamidi Rama** & I.V. Subba Reddy***

Introduction:

Science changes its face every day in order to reach the heights of human possibilities. Robotics is one of such realm of the extravagant innovations created by human mind. In this unpredictable and naive world, robotics can be used for security purposes. This paper describes about the use of robotics for security purposes such as diffusing bombs. The robot is completely autonomous with several features such as color recognition, face recognition, voice recognition, obstacle avoiding. QR code, recognition, GPS navigation,

In the paper[1], the robot designed is basically a mobile device which carries out different services and can be used in two different ways. The robot in this paper can either be controlled manually i.e., through a device which gives commands to it, or automatically which means the robot carries out all the services automatically.

In the paper [2], the robot is designed to operated manually or autonomously both at a time and the robot performs the tasks for the well-being and this type of robot is either mobile or manipulative or both.

In the paper [3], all the components of the robot are integrated on a mobile robot platform and the robot is used to interact with the humans in a kitchen scenario.

Proposed Work:

Nowadays, the field of technology especially the automated technology is advancing day by day. People prefer things such as machines, and other objects to be automated such that it decreases the amount of work to be done and perhaps makes it much easier in this automation process. The tasks performed by the automated machines are much faster as compared to that of humans. We have created an autonomous robot which interacts with the outside world and follows the instructions given by us such as lifting a water bottle or moving to a specific distance and talk back ability, the robot also recognizes the face and even differentiates between colors with help of a wireless camera attached to it. This robot is very helpful in today's world as it has the ability to ride on any rough surface enabling it to enter into remote areas were a lot of people cannot enter or can be used to diffuse the bombs while standing at a particular distance without causing any harm to us. Instruments:

The following components are used in this system:

(1) Microcontroller: The heart of the robot is PIC181f4685 which has ahigh computational performance at an economical price, high-endurance and Enhanced Flash program memory. PIC18LF4685 is a microcontroller which

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(11) Bluetooth Module: Bluetooth is a wireless technology in which the data can be transferred over short distances through radio transmissions. This wireless technology is used mainly in mobile's which has a greater security level as compared to any other wireless technology.



Fig.1: Bluetooth Module

Fig.1 shows the Bluetooth Module which is used in the robot which operates at a frequency of 2.45 GHz, the transfer rate of this Bluetooth module is 712kbps. The robot is controlled with the help of this Bluetooth module which receives the information from the transmitter and then forwards it to the microcontroller to perform a particular task assigned to it. The Bluetooth module requires a small amount of power supply and is tiny and inexpensive.



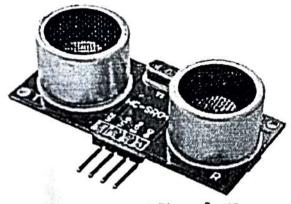


Fig.2 : Ultrasonic Distance Sensor

Fig2. Shows an ultrasonic distance sensor which works on the principle similar to that of a radar or sonar which calculates the distance and the type of the object which is placed in front of it using the echo in the form of radio or sound waves. This device is also knows as a transceiver when it transmits and receives the data and even works as a transducer. These ultrasonic distance sensors generate very high frequencies which calculate the echo which is received after reflecting back from the object.

(iV) Mp3 Trigger:
The mp3 trigger is a PCB board which integrates the mp3 files in an easier way.



Fig.3: Mp3 Trigger

Fig.3 shows the Mp3 trigger which is used in the robot consisting of 18 external trigger pins which when triggered plays a particular mp3 file assigned to that pin. The Mp2 trigger has a real time volume control which enables the user to control the volume of the mp3 sound at any instance of time. The formats in which the mp3 files are stored in the SD card are in fat32.

(V) Motor Driver:

The current provided to the DC motors by the microcontroller isn't enough to operate it and even the speed and direction of the DC motor isn't easy to be controlled. So, we use a motor driver which can control the speed of the motor using PWM i.e., Pulse Width Modulation and the direction of the DC motors can be controlled by the use of 4 consecutive keys.

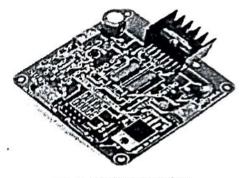


Fig.4: L298N Motor Driver

Fig.4 shows the motor driver which is used in the robot to control the two DC motors in the same direction or in the opposite direction as per the requirement.

(VI) Servos:

A servo motor can be an ac, dc or brushless DC motor which is equipped with a positioning device similar to that of a digital decoder. A basic servo consists of a DC motor with a gear train along with a potentiometer providing position feedback and a small circuit used to control the position. Limit stops are also used in the servo which limits the shaft to turn beyond it.

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The Poetical Sketches of Sarojini Naidu

S. Nagendra and B. Sudha Sai

Nightingale of India

Sarojini is an outstanding and distinguished poetess of India. She needs no introduction as her name is familiar to every reader of Indo-Anglian poetry. Popularly known as the 'Bharat-Kokila' or 'The Nightingale of India', she is the most lyrical woman poet. In her perfect lyricism and mellifluous melody, she is indeed the Nightingale of India in Indian imagination. She is one of Mother India's most gifted children, readily sharing her burden of pain, fiercely articulating her agonies and hopes, and gallantly striving to redeem the Mother and redeem the time.

Sarojini Naidu once described herself as "a wild free thing of the air like the birds with a song in her heart." This self-portrait reveals her essential poetic temperament and lyrical gifts. Spontaneity and naturalness of manner give her poetry a distinct bird-like quality and melodic beauty. she is a great music maker of superior poetic craftsmanship. Her poetry has great verbal beauty and glow of imagination. It abounds in sensuous similes and rich metaphors. Here is one from Lieli:

> A caste-mark on the azure brows of heaven The golden moon burns, sacred, solemn bright.

A Poet-Patriot

Sarojini's poetry reflects her involvement with Indian life. She is an epitome of Indian womanhood and commands respect from the younger generation as an intrepid freedom-fighter. She made outstanding achievement in the fields of poetry and politics. She may therefore be described as a poet-patriot with the accent on the former component. Being born at Hyderabad in a distinguished Bengali family, she is endowed with a long tradition of cultural heritage

Her Life in Hyderabad

Hyderabad was a prominent seat of medieval Muslim culture and Sarojini lived in the Islamic atmosphere of delicacy, oriental splendor and richness of Persian poetry. Hers was a royal and beautiful city whose glory she has recorded in two poems "Nightfall in the city of Hyderabad" and "In the Bazaars of Hyderabad". Islamic culture and Persian poetry greatly influenced her. Her poetry abounds in pictures of Muslim life and images borrowed from Persian poetry. Here is a typical picture of Muslim life.

> Hark from the minaret, how the muezzin's call Floats like a battle-flag over the city wall.....

Apart from learning Urdu and being acquainted with Persian poetry, Sarojini learned English and Bengali. She matriculated from Madras University at the age of twelve. It seems that English romantics Keats and Shelley were her favorite though she also read Tennyson, Browning, Rossetti and Swinburne. These poets have influenced her art and sensibility. She imitated them in the beginning of her poetical career.

Romantic Indian Scenes Some of the poems of Sarojini Naidu are romantic but they depict Indian scenes and sights. The folk songs are not rude they are full of lyricism, simplicity and rhythmic beauty. Of all these the most famous is 'The Indian Weavers', a poem of deep symbolic beauty. Other poems like 'Palanquin Bearers', 'The Snake Charmer' are equally remarkable for their romantic imagery and rhythmic lilt. She tried to catch and reproduce in English the lilt and atmosphere some of the folk songs in her early poems like 'The Bangle Sellers', 'Palanquin Bearers', 'Coromandel Fishers' and 'Snake Charmer'. Here is a poem typical of her romanticism, lyricism and verbal beauty and color.

Weavers, weaving at break of day, Why do you weave a garment so gay?... Blue as the wing of a halcyon wild, We weave the robes of a new-born child...

There are love songs, elegies and dirges in Sarojini Naidu's poetry. Spring inspires her to sing but even as she thrills at the thought of 'The Festival of Spring', 'Vasant Panchami'. Her compassionate heart rues the plight of the Hindu widow who has no part in the festive ceremonials:

Hai! What have I to do with nesting birds, With lotus -honey, corn and ivory curds, With platting blossom and pomegranate fruit, Or rose- wreathed blossom and pomegranate fruit, With lighted shrines and fragrant all tar fires, Where happy women breathe their hearts; desires? For my sad life is doomed to be alas Ruined and sere like sorrow- trodden grass. Akin to every lone and withered thing That hath foregone the kisses of the spring.

The third and the last volume of Sarojini's poems published in her lifetime is entitled 'The Broken Wing'. The memorial verses addressed to her father and to Gokhale are notably articulate 'In Salutation of her Father'

O splendid dreamer in dreamless age Whose deep alchemic vision reconciled Time's changing message with the undefiled

Calm wisdom of thy vedic heritage!

The title is symbolic and was taken from G.K Gokhale's question 'Why should a song bird like you have a broken?' which serves as an epigraph to her title poem containing two parts Ouestion and Answer. The question is:

> Song-bird why dost thou bear a broken wing? And here comes the answer: Behold! I rise to meet the destined spring And scale the stars upon my broken wing!

Sarojini dedicated 'The Broken Wing' to the 'dream of today and the hope of tomorrow' Both the dream and the hope are about the future of India. The volume is permeated with the spirit of India, though some of the pieces convey her personal losses, disappointments and longings. One such poem is 'In Salutation to My Father's Spirit'. In 'The Broken Wing' as in 'The Bird of Time' Sarojini shows equal attraction for the Hindu and the Islamic traditions. The former is represented by poems like 'Lakshmi', the 'Lotus born', 'The Flute Player of Brindavan' and 'Kali the Mother', 'The Prayer of Islam', 'A Song from Shiraj', 'The Imam Bara', 'The Wandering Beggars' and 'Imperial Delhi'.

It is observed that this volume contains sixty-one poems but on actual count there are sixtytwo poems. The volume is divided into four groups: 'Songs of Life and Death', 'The Flowering Year', 'The Peacock Lute' and 'The Temple'. The poems contained in these three volumes were later rearranged and put together in one big volume under the title 'The Sceptered Flute.' The rearrangement of poems is not chronological.

Freedom Fighter-Poet

It has already been stated that in 1920 Sarojini opted out of literature and took active participation in politics but she never ceased to be a poet. In 1928 she told Prof. Amarnath Jha of her intention of writing a book called 'Feathers of Dawn'. Mr. Jha said, "We heard no more of this collection and it is to be feared that the poems are lost." But, the poems were rescued and after Sarojini's death, her daughter Padmaja Naidu edited and collected them under the title 'The Feathers of the Dawn' published in 1961. The collection contains thirty-seven poems, five sonnets and thirty-two short lyrics. The collection includes such fine lyrics as 'A Persian Lute Song', 'The Gift', 'The Amulet', 'The Water Hyacinth', 'Raksha Bandhan' and 'The Festival of Sea'. It should now silence those critics who say that she abandoned poetry because her poetic powers had declined. It is opined that her poetic lyrical powers might be waning, but her poetry gained in maturity and seriousness.

Gandhi's Impact

With the arrival of Mahatma Gandhi on the political scene, Sorojini Naidu finds a new power to galvanize her to life. It is an age of heroic striving, an age of imperatives and absolutes. She looks into her bruised and broken heart and sees a new vision - the vision of chained Mother - and vows to break the bonds. She remarks, "My woman's intelligence cannot grapple with the transcendent details of politics." But love of the Mother is no abstruse science, and

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therefore for Sorojini Naidu politics is but a form of love and sedition but a form of poetry. The new lover expresses herself in inspiring oratory and fearless action. She presides over the Congress tell them we need him not. God is with us and we need no pilot." Her assurance is all the grater the very hour of his martyrdom. Her own death follows on third March 1949, and Nehru as Prime Minister then pays this fitting tribute to her in the Constituent Assembly:

She began life as a poetess. In later years, when the compulsion of events drew her into the national struggle and she threw herself into it with all the zest and fire, she possessed, she did not write much poetry with pen and paper but her whole life became a poem and a song ...

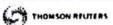
Bibliography

- George Samson: 'The Concise Combridge History of English Literature', C.U.P. 1945.
- Ed. V.N. Bhushan, 'The Peacock Lute', Padma Publications, Bombay, 1945.
- 3. Arthur Symons in his Introduction to Sarojini Naidu's 'The Golden Threshold'.
- 4. Padmini Sen Gupta: 'Sarojini Naidu', New Delhi, Sahitya Akademi, 1974.
- 5. H.M. Williams: 'Indo-Anglian Literature, A Survey', Orient Longman, New Delhi, 1976.
- 6. R.P.N. Sinha: 'The Birth and Development of Indo-English Verse', Dev Publishing House, New Delhi, 1971.

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SPECTROPHOTOMETRIC DETERMINATION OF AMETRIDIONE AND IN ITS COMMERCIAL FORMULATIONS

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ABSTRACT

A simple, precis, rapid sensitive and accurate spectrophoptometric methods have been developed for the estimation of Ametridione in pure form and its formulations and Spiked vegetables and water samples. This method is based on oxidative coupling of Ametridione with MBTH in the presence of Ferric chloride to form green colored product with Maximum of 615nm. The product obeyed beers law in the concentration range 0.5-3 ml (5-30 µgml⁻¹) with molar absorptivity of 1.001x10⁴. Sandel's sensitivity 0.004945. The assay of results was found to be good agreement vith label claim.

Keywords: Ametridione. UV. Validation.

I. INTRODUCTION

A survey of the literature revealed that different analytical techniques for the assay of MTM have been reported. Voltametric detection of the herbicide Ametridione at a bismuth film electrode in non deaerated solution. Electroanalisis of Ametridione and metribuzen on lignin. By Adsorption, Electrochemical reduction of Ametridione, Identification of different products obtained by electrochemical and photochemical reduction of the Ametridione, Voltametric determination of Ametridione with an electrogenerated molecularity imprinted polymer microsencer. Electrochemical determination of the effect of lead (II) on the photochemical degradation of the pesticide Ametridione, Voltametric determination of Herbicide Ametridione using Mercury and silver solid amalgam electrode. Preconcentration and voltametric determination of the herbicide Ametridione with a silica modified carbon paste electrode. Determination and method validation of Ametridione in soil by RP-HPLC. Electrochemical determination of the effect of Copper (II) on the photochemical degradation of the pesticide Ametridione.

There is however no reported U:- Visible spectrophotometric method for the analysis of Mitamitron in its technical grade and formulations. This describes a validated UV- visible spectrophotometric method for the quantitative determination of Mitamitron. Functional group used for color development of Mitamitron was primary amine group. The results obtained in this method were based on complex formation reaction of Mitamitron with Oxidative coupling reaction with MBTH/Ferric chloride.

The author has developed UV- Visible spectrophotometric method based on the use of method, without use of any interferences. An attempt has been made to develop and validate all methods to ensure their accuracy, precision, repeatability, reproducibility and other analytical method validation parameters as mentioned in the various guidelines.

This is describes a validated UV-Visible method for the quantitative determination of Ametridione. The empirical formula for Ametridione is CiollioN4O and the molecular weight is 202.2 grams. It has the following structure.

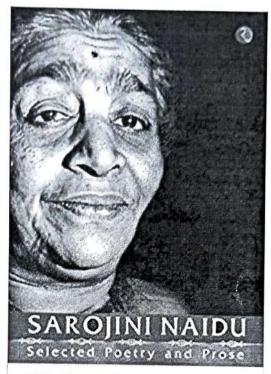
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Sarojini Naidu as a Poet of Nature

S. Nagendra and Dr. P. Sreenivasulu Reddy



Edited by Makarand R. Paranjape

Courtesy: https://www.amazon.com/Sarojini-Naidu-Selected-Poetry-Prose/dp/8129115808

Poetry of Nature

Sarojini Naidu's poetry is undoubtedly poetry of nature. Her love of nature is reflected even in poems which are not about nature but have a different theme. Nature is the eternal environment of man, and Sarojini looks at it with a child-like, open-eyed wonder. Her response to Nature is the response of man in his infancy, who looked at nature, was fascinated with her sights and sounds, with her colors and odors, and is also struck with awe by her grandeur and her mystery. It is homely and familiar that fascinates Sarojini. and Nature. She is neither pantheistic like Wordsworth nor cosmic like Tagore.

Not Simply Related to Visual Sensation

Sarojini Naidu feels a heavenly delight in nature and succeeds in communicating her own delight to her readers. It is said that her response is not limited to the visual sensation. It is auditory and tactual. The vocabulary of her nature poetry is such in words denoting colors, sounds, fragrances and skin feelings such as glassiness, softness, pliability and suppleness. Sarojini feels the spring season meant passion, excitement and the breath of life itself. Most of the poems reveal her sensuous enjoyment of the colors, sounds, fragrance and sights of nature.

Spring

Her poem 'Spring' depicts beautiful pictures of the season. Young leaves grow on the banyan stems. The leaves on the peepal tree are red. The honey birds pipe to the budding figs, and honey blooms call the bee. The poppies squander their fragile gold in the silvery aloe-fern, coral and ivory lilies unfold their delicate leaves on the lake. The kingfishers ruffle the feathery sedge. The air is thrilled with butterfly wings in the wild rose hedge. The earth is filled with the luminous blue of the hills. Spring kindles life in the trees, flowers and birds and butterflies. It draws human beings into the eddies of its vital flood. spring is the moment, the season, and the cycle of Love'

> Kamala tinkles a lingering foot And Krishna plays on his bamboo flute

Spring Colours and the Myth of Radha and Krishna

In this lyric the colors of spring are stressed, and the season is related to the myth of Radha and Krishna. In 'A Song of Spring' it is the life and movement with which spring endows all nature that are stressed.

> Wild bees that rifle the mango blossom Set free awhile from the love god's string...... ... Fireflies weaving aerial dances In fragile rhythms of flickering gold.

Nightingale of India and Bharata Kokila - Sensuous Experience of Nature

Because of this lyrical quality of her poetry, she might have earned the titles of the 'Nightingale of India' and 'Bharata Kokila'. In certain lyrics the mood is one of sensuous enjoyment of the manifold beauties of nature.

Social Consciousness and Yearning for Reformation

But the mood changes in Vasant Panchami (Festival of Spring) and the lyric records the grief of a widow at the return of spring. It is a day when young girls and married women celebrate the coming of spring. They welcome spring with new-grown corn and lighted lamps, with music and folkdance. But Lilavati is sad at the very feast of spring. She implores the dragonfly to fold up its wings and not to bring the tidings of spring. She asks the lilting koels to hush their voices and the dadhikulas to still their throats, because their songs pierce her heart with poisoned arrows. They bring back memories and sweet reminiscences of happy days during her spring time. She asks the flowers to quench their color and hold their fragrance because they slay her heart with bitter memories. She persuades the joyous girls, who go to sing carols to the spring to dim their radiant voices.

Adoration for Flowers - Lotus Born Saraswati and Buddhist Lotus

Sarojini has a great adoration for flowers. Flowers are everywhere in Sarojini's poetry. There is a hierarchy of flowers, the 'lotus' being the first and foremost. This unique flower has been celebrated in Indian poetry, myth and legend since times immemorial, and has acquired far reaching symbolic significance. It is a symbolic representation of purity and sanctity. It is associated with 'Lakshmi', the Lotus-born and 'Saraswathi', who is seated on a lotus. The lotus is equally important in the Buddhist tradition. The Buddha is shown meditating upon a lotus-throne. Lotuses are painted or carved on his palms and toes in Buddhist painting and sculpture. Sarojini is deeply fascinated by these associations

of the lotus in Indian mythology and art. This fascination is reflected in many of her poems. Her own name denotes 'lotus plant' or 'a lake abounding in lotuses'. Her eldest daughter was named 'Padmaja' (Lotus-born), which is also one of the names of 'Lakshmi, the Goddess of Fortune'.

Poetry Abounds in Animals - Focus on Serpents

Indian animals like stallions, golden panthers, cows, monkeys, dears and 'leisurely' elephants enter into her poetry, but it is the serpent intimately connected with innumerable Indian myths and legends which inspires two of her best poems. To Sarojini, snakes are not objects of horror, but of love and adoration, as they are in so many Indian myths and legends. The concluding lines of 'The Snake-Charmer' expresses the Indian snake charmer's deep love for his pet:

> Come, thou subtle bride of my mellifluous wooing Come, thou silver-breasted moonbeam of desire.

Sun and Sunshine

Sarojini's response to nature is one of adorations like that of our ancestors. A number of hymns to the objects and forces of nature are scattered all up and down her poetry. She has particular affection for the sun and sunshine, and in the 'Harvest Hymn', the farmers express her own love and gratitude for this 'lord of the morn' and 'lord of the harvest'.

> O giver of mellowing radiance, we hail thee, We praise thee, O Surya, with cymbal and flute.

There is, indeed, something characteristically tropical about her love for the sun. But, though she was particularly fond of the bright, clear sunshine which illumines the landscape of India, she also had a deep feeling for the subdued light of the setting sun, as is expressed in 'June Sunset'. In the 'Harvest Hymn', the farmers express the poet's own adoration and gratitude for the beautiful earth, 'the Queen of the gourd flower, queen of the harvest'.

Rainy Season Is Not Forgotten!

Though rainy season does not figure much in her poetry, we get the 'Hymn to Indra', in which the people pray to the Lord of Rain:

> Thou, who with bountiful torrent and river Dost nourish the heart of the forest and plain, Withhold not Thy gifts, O Omnipotent Giver, Hearken, O Lord of Rain.

In 'Nightfall in the City of Hyderabad', 'the speckled sky' burns like 'a pigeon's throat', 'Jeweled with embers of opal and peridote.' The river flows out, 'Curved like a tusk from the mouth of the City gates', the call of the muezzin's, 'Floats like a battle flag over the city wall', and

> Over the city bridge Night comes majestically Borne like a queen to a sumptuous festival.

Remarkably Refreshing

Originality, freshness, and imaginative justness of these images are remarkable. They startle, surprise, and immediately capture the attention of the readers, and bear witness to the minuteness of observation of the poetess. P.V. Rajyalakshmi says, "The City of Hyderabad is dominated by the Musi

river, exactly curved like a tusk from the mouth of the city-gates. The image is at once precise and evocative. Besides, it connects the city to nature-landscape suggesting how the wild river has been tamed into the city's culture, while giving life to it. The sky, at nightfall in the city, looks like a pigeon flown from one of the towers on the river-side, burning like a pigeon's throat; perhaps like the thought of a city bride whose throat quivers and burns with ornaments of opal and peridote.'

To Conclude

Thus, Sarojini's nature-poems are remarkable not only for the loveliness of the Indian nature but also for the beauty of imagery and descriptive details. It is true that they are not poems of fiery lyricism, but imagination, sensuousness and romanticism are all evident. Of all our early Indian poets of twentieth century, Sarojini has outstandingly recaptured the early Indian responses to our natural environments.

References

- 1. Padmini Sengupta: "Sarojini Naidu" Asia Publishing House, Bombay, 1974.
- 2. Dr. Srinivas Iyengar: "Indian Writing in English", p. 55.
- Prof. K. K. Mehrotra: "Poetry of Sarojini Naidu Essays and Studies", Allahabad University, 1970.
- 4. Dr. Rameswar Gupta: "Sarojini The Poetess" Doaba House, Delhi 1975.
- Dr. Narsingh Srivastava: "The Devotional Poetry of Sarojini Naidu", Prabuddha Bharata, 1957.
- 6. P V Rajyalakshmi, "The Lyric Spring: The poetic achievement of Sarojini Naidu", 1977.

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Spectroscopic Investigations of Undoped and Rare Earth Doped NLO Single Crystals of Manganese Mercury Thiocyanate Bis-Dimethyl Sulfoxide

L. Bhushan Kumar^{1,*}, E.V. Suresh Kumar², B. Yellamanda³, Y. Nirmal Rajeev⁴

ARTICLE DETAILS

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ABSTRACT

Good optical grade single crystals of pure, lanthanum (La³) and neodymium (Nd³) doped manganese mercury thiocyanate bis-dimethyl sulfoxide (MMTD) crystals are grown from aqueous solution by slow solvent evaporation technique at room temperature. Single crystal X-ray diffraction (XRD) data reveals that the grown crystals belong to the orthorhombic crystallographic system with the non-centrosymmetric space group P2₁2₁2₁. The crystals are characterized using optical absorption, Fourier transform infrared (FT-IR), Fourier transform Raman (FT-Raman), energy dispersive X-ray analysis (EDAX) studies. The second harmonic generation (SHG) efficiencies of the grown crystals are also measured using Kurtz and Perry powder technique. The nonlinear optical (NLO) activity of the pure MMTD significantly enhances due to rare earth dopants.

1. Introduction

The rapid growth in several important areas like microelectronics and communication technologies is due to the highly demanded progress in the field of crystal growth [1]. In spite of considerable research in this field, it is often considered as a fine combination of science, technology and art to grow new materials in single crystal forms at the optimum growth conditions [2]. An important aspect of utilizing organo-metallic structures for nonlinear optical applications is their unique charge transfer transitions, either from metal to ligand or from ligand to metal. Thiocyanate (SCN) is a highly versatile ligand with two terminal modes and thirteen multidentate bridging modes of coordination. Based on the concept developed by Pearson [3] on the hard and soft acids and bases rationalizes that soft cations show a pronounced affinity for coordination with softer ligands, while hard cations prefer coordination with harder ligands. The SCN-ligands in MnHg(SCN)4 bridge the tetrahedrally coordinated N-bonded Mn atoms and the tetrahedrally coordinated Sbonded Hg atoms into a 3-D network with the non-centrosymmetric space group. MnHg(SCN)4 has been identified to exhibit high hyperpolarizability due to the extended π -conjugation of the Mn-NCS-Hg bridges and their parallel alignments in the 3-D crystal structure [4].

Recent studies indicate that the Lewis-base adducts of these crystals have been identified to possess superior NLO property compared to their parent metal SCN crystals. The metal SCNs and their Lewis-base adducts are some of the interesting themes of structural chemistry [5]. This encouraging switch-over is mainly attributed to the enhancement in the NLO activity, by the addition of Dimethyl sulfoxide (DMSO) ligand. The introduction of DMSO aids in better electronic oscillations in SCN ligand, leading to an improvement in NLO efficiency. The present study deals with the growth and characterization of pure and rare earth doped manganese mercury thiocyanate bis-dimethyl sulfoxide (MMTD), Lewis-base adducts of MMTC [4]. In the structure of MMTD, the hard Mn² ion is coordinated with the harder N-(SCN) and O-(DMSO) ligands, while the soft Hg² is coordinated with the softer S-(SCN) ligands. The Hg² ion is coordinated with four SCN S-atoms and is in a tetrahedral geometry [6].

The present investigation deals with the growth and characterization of pure, La³⁺ and Nd³⁺ doped Manganese mercury thiocyanate bis-dimethyl sulfoxide (MMTD) crystals, grown from a mixed solvent of water and DMSO.

2. Experimental Methods

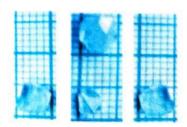
Pure MMTC was synthesized by taking appropriate amount of NH₄SCN, MnCl₂ and HgCl₂. The chemicals were dissolved in double distilled water and stirred well for about 12 hours. The following is the reaction formula.

 $4NH_4SCN + MnCl_2 + HgCl_2 \rightarrow MnHg \ (SCN)_4 + 4NH_4Cl_2 + MnHg \ (SCN)_4 + 4NH_4Cl_3 + MnHg \ (SCN)_4 + MnH$

The seed crystals were obtained using dimethyl sulfoxide as a ligand to react with MMTC in a mixture of dimethyl sulfoxide and de-ionized water. The chemical reaction is:

 $MnHg(SCN)_4+2C_2H_6OS \rightarrow MnHg(SCN)_4(C_2H_6OS)_2$

After vigorous stirring, the pH of the solution was adjusted to be between 2 and 3 by slowly adding dilute HCl, and then allowed to evaporate at room temperature.



(a) (b) (c)
Fig. 1 Photographs of (a) pure, (b) La³⁺ and (c) Nd³⁺ doped MMTD single crystals

The same procedure is repeated for the growth of La³⁺ and Nd³⁺ doped MMTD crystals by substituting 2% of Hg by 2% of La³⁺ and Nd³⁺ respectively. Optically clear defect free and well-shaped crystals were

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HUMAN RIGHTS VIOLATIONS: A STUDY.

*Dr.C. Ramana Reddy, M.A., B.Ed., Ph.D.,

ABSTRACT:

"Human rights" means the rights inherent to all human beings regardless of race, sex, nationality, ethnicity, language, religion or any other status. These also include the right to life and liberty, freedom from slavery and torture, freedom of opinion and expression, the right to work and education and many more. The practice of human rights is still more a dream than reality. Violations exist in every part of the world. Article3 of the Universal Declaration of Human Rights (UDHR) deals about "Everyone has right to life, liberty and security." Briefly it is known as "The Right to live free". But this right violated several times in many parts of the world. According to the World Human Rights Organization some of the countries in the world have bad record regarding the human rights violations. Political, social, economic, religion, race and ethnic factors are responsible for the human rights violations in those countries. The responsibility of human rights protection should be beard by sovereign nations, world peace organizations like UNO and human rights organizations such as Amnesty International, Human Rights Watch etc. Every country should have the accountability to protect the human rights within its territory. Now the researcher attempts how the violations are occurred in various parts of the world and try to give solutions to the violations.

NEED OF THE STUDY:

Rights are the ground work of a state. The nature of the state is known by the rights it maintains. For the socio, economic and political development of the people in the country as well as in the world, rights are necessary for physical and mental development. Human rights play a important role in a society. Without human rights, there is no peacefulness prevailed in the world. Better implementation of human rights leads to enhance the democratic rule and minimize the problems of the people and ultimately peace will be prevailed in universe. In view of the importance of human rights the national and the international organizations including UNO are stressing for the protection of human rights and try to reduce the violations all over the world. Hence, the paper attempts how the human rights violations are take place all over the world and to trace out the solutions to the human rights violations.

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OBJECTIVES OF THE PAPER:

- 1. To study the importance of human rights.
- 2. To define the violations of human rights.
- 3. To explore about the violations of human rights across the world.
- 4. To give solutions to the human rights violations

INTRODUCTION

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"Human rights" means the rights inherent to all human beings regardless of race, sex, nationality, ethnicity, language, religion or any other status. These also include the right to life and liberty, freedom



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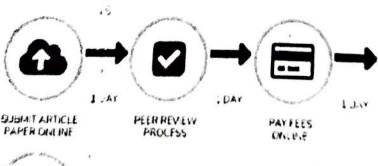
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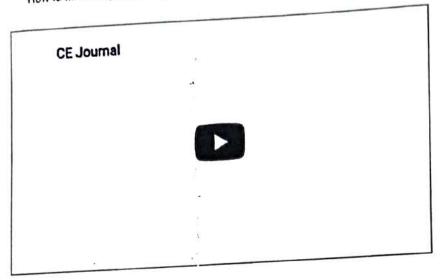


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Antibacterial and antifungal activities of Boswellia ovalifoliolata stem

G.CHANDRA SEKHAR, T. Gunasekhar, S.Mahalakahmi

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ANTIBACTERIAL AND ANTIFUNGAL ACTIVITIES OF BOSWELLIA OVALIFOLIOLATA STEM BARK

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Abstract: This study was carried out with an objective to investigate the antibacterial and antifungal potentials of Stern bark of Baswellia ovalifoliolata. The aim of the study is to assess the antimicrobial activity and to determine the zone of inhibition of extracts on some bacterial and fungal strains. In the present study, the microbial activity of ethanolic extracts of stem bark of Basseellia avalifoliolata was evaluated for potential antimicrobial activity against medically important bacterial and fungal strains. The antimicrobial activity was determined in the extracts using agar disc diffusion method. The antibacterial and antifungal activities of extracts (50, 100, 150 and 250 µg/ml) of Boxwellia ovalifoliolate were tested against two Gram-positive-Stophytic occus aureus. Bacillus subnits two Gram-negative- Perulamonas neriginosa, F. coli. bacteria. Two fungal strains-Aspergillus Viger and Aspergillus inytae. Zone of inhibition of extracts were compared for antibacterial activity and nystatin and griscofulvin for antifungal activity. The results showed that the remarkable inhibition of the bacterial growth was shown against the tested organisms. The phytochemical analyses of the plants were carried out. The microbial activity of the Boswellia ovalitolishma was due to the presence of various secondary metabolites. Hence, these plants can be used to discover bioactive natural products that may serve as leads in the development of new pharmaceuticals research activities.

activity, antifungal activity, secondary Index Terms - Boswellia ovalifoliolata, vitro antibacterial in metabolites .

I. INTRODUCTION

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Antibiotics are important weapons in fighting bacterial infections and have vastly improved the quality of human life since their introduction. However, over the past few decades, these health benefits are under threat as many commonly used antibiotics have become less and less effective against certain illnesses, not only because many of them produce toxic element. Hence it is essential to investigate new drugs. Drugs derived from natural sources play a significant role in the prevention and treatment of human diseases. In many developing countries, traditional medicine is one of the primary healthcare systems. [12] Herbs are widely used in the traditional medicine and their curative potentials are well documented. 11 About 61% of new drugs developed between 1981 and 2002 were based on natural products and they have been very successful especially in the areas of infectious disease and controlling cancer. [4] Recent trends, however, show that the discovery rate of active novel chemical entities is declining 19 Natural products of higher plants may give a new source of antimicrobial agents with possibly novel mechanisms of action [6,7] The effects of plant extracts on bacteria have been studied by a very large number of researchers in different parts of the world.[10] Much work has been done on ethnomedicinal plants in India. [17] Plants are rich in a wide variety of secondary metabolites such as tannins, terpenoids, alkaloids, flavonoids, glycosides, etc., which have been found in vitro to have metabolites such as talking, the period of the same been known to man for centuries. Therapeutic efficacy of many indigenous plants for several disorders has been described by practitioners of traditional medicine. [12] Antimicrobial properties of medicinal plants are being increasingly reported from different parts of the world. The World Health Organization estimates that plant extracts or their active constituents are used as folklore endemic medicine in traditional therapies of 80% of the world's population. [13] The harmful microorganisms can be controlled with drugs and these results in the emergence of multiple drugresistant bacteria and it has created alarming clinical situations in the treatment of infections. The pharmacological industries have produced a number of new antibiotics resistance to these drugs by microorganisms has increased. In general, bacteria have the genetic ability to transmit and acquire resistance to synthetic drugs which are utilized as therapeutic agents. [34] In an effort to expand the antibacterial agents from natural resources. In the present study Boswellia avalifoliolata belonging to Burseraceae family has been selected. In the Indian literature, [15,16] reported to be useful against inflammations, joint pains, ulcers, arthritis, amoebic dysentery and diabetes has been suggested [17] and it is widely used by tribal people to treat various ailments including ringworm and other fungal skin infections. [15] Boswellia avalifolialata extract are known to be an important source of secondary metabolites, Indian people are using the leaves to treat inflammation Boswellia avalifoliolata plant organs are notably phenolic compounds. [18] Burwelliu ovalifoliolata exhibited significant antimicrobial activity and showed properties that was mentioned in folkloric as broad-spectrum antimicrobial agents. [30] Thus, Baswellia avalifolialata is well anchored in its traditional uses has now found wide-spread acceptance across the world. In the current investigation carried out, a screening of ethanolic extracts of ie.

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Spectrophotometric Determination of Metalazone and in its Commercial Formulations

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Abstract: A simple, precise, rapid, sensitive and accurate spectrophotometric method have been developed for the estimation of Metalazone in pure form and its formulations and Spiked vegetables and water samples. This method is based on oxidative coupling of Metalazone with MBTH in the presence of Ferric chloride to form green coloured product with Maximum of 615 nm. The product obeyed Beer's law in the concentration range of 0.5 to 3 ml (5-30 µgml') with molar absorptivity of 1.001x10. Sandal's sensitivity 0.004945. The assay of results was found to be good agreement with label claim.

Keywords: Metalazone,. UV Validation.

1. INTRODUCTION

Metolazone is chemically 7-chloro-2-methyl-3-(2-methylphenyl)-4-oxo-1, 2-dihydroquinazoline-6-sulfonamide [3] (Structure-1). Metolazone is an oral diuretic drug, commonly classified with the thiazide diuretics. It is primarily used to treat congestive heart failure and high blood pressure. Metolazone indirectly decreases the amount of water reabsorbed into the bloodstream by the Kidney, so that blood volume decreases and urine volume increases. This lowers blood pressure and prevents excess fluid accumulation in heart failure. The emperical formula for Metolazone is C₁₆H₁₆ClN₃O₃S and the molecular weight is 365.84 grams.

Metolazone (Structure-1)

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Research Article

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VALIDATED SPECTROPHOTOMETRIC METHOD FOR THE DETERMINATION OF DOXAZOCIN IN PURE AND IN ITS DOSAGE FORM

G. Chandra Sekhar*1, V. Prabhakar Rao1, P. Eswar Kumar2

1*Department of Chemistry, Government Degree and Post Graduate College, (Recognised as Research Centre by UGC and S. V. University, Tirupati), Puttur, Chittoor, 517 583, Andhra Pradesh, India. ²Department of Physics, Government Degree and Post Graduate College, (Recognised as Research Centre by UGC and S. V. University, Tirupati), Puttur, Chittoor, 517 583, Andhra Pradesh, India.

A simple, precise, rapid, sensitive and accurate Spectrophotometric methods have been developed for the estimation of Doxazocin UV in pure form and its pharmaceutical formulations based on oxidative complexation reaction UV with 1.10- phenanthroline reagent at PH- 4 which is extractable at 510nm. Beer's law is obeyed in the concentration range 1-6ml (10 to 60µg ml⁻¹). The developed method was applied directly and easily for the analysis of the pharmaceutical formulations. RSD was found to be 0.5318 and recovery 99.77 % respectively. The method was completely validated and proven to be rugged. The interferences of the ingredients and excipients were not observed. The repeatability and the performance of the proved method were established by point and internal hypothesis and through recovery studies.

Spectrophotometry, Doxazocin, 1, 10-phenanthroline and Oxidative complexation.

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INTRODUCTON

7-dimethoxy-2-[(4-amino-6, Doxazosin quinazolinyl)-4-(1, 4-benzodioxan-2-yl-carbonyl) piperazine] is a postsynaptic α 1-adrenoreceptor antagonist used either alone or in combination with diuretics or al-adrenergic-receptorant agonist for the treatment of hypertension and benign prostatic hyperplasia. It is structurally related to prazosin Figure No.1. The literature survey of Doxazosin as follows. Babmoto et al1, Eliot et af, and Carlson et al and Bailey et al, has to Report the analysis of pharmacokinetics and effect on blood pressure of Doxazosin in normal subjects and patients. 305 January - March -



NUMERICAL STUDY OF MHD BOUNDARY LAYER FLOW OF A VISCOELASTIC AND DISSIPATIVE FLUID PAST A POROUS PLATE IN THE PRESENCE OF THERMAL RADIATION

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Original Manuscript Submitted 3/21/2017, Final Draft Received: 1/10/2018

In this manuscript, an investigation is done to analyze various properties of fully developed free convector flow of a viscous incompressible electrically conducting viscodastic and dissipative fluid past a vertical porous plate bounded by a porous medium in the presence of thermal radiation and variable permeability. A magnetic field of uniform strength is applied perpendicular to the plate, and the presence of a heat source is also considered. The coupled dimensionless nonlinear partial differential equations are solved numerically by finite difference method. The numerical computations have been studied through graphs. The presence of thermal radiation decreases the temperature, and an opposite nature is shown in the case of Eckert number.

KEY WORDS: MHD, thermal radiation, variable suction, variable permeability, vertical porous plate, heat and mass transfer

1. INTRODUCTION

The study of magnetohydrodynamic (MHD) viscoelastic fluids with radiation effect past a porous medium plays a significant role in many scientific, industrial, and engineering applications. This flow was essentially utilized in the fields of petroleum engineering concerned with oil, gas, and water through a reservoir in the analysis of the migration of underground water. To recover the water for drinking and irrigation purposes, the principles of this flow are followed. Many researchers identified the importance of this flow and contributed in studying the application of viscoelastic fluid flow of several types past a porous medium in the presence of thermal radiation. Mahdy et al. (2015) studied thermosolutal Marangoni boundary layer MHD flow with the Soret and Dufour effects past a vertical flat plate. Kairi and Murthy (2009) discussed the effect of melting and thermodiffusion on natural convection heat mass transfer in a non-Newtonian fluid-saturated non-Darcy porous medium. Mukhopadyay and Mandal (2015) analyzed MHD mixed convection slip flow and heat transfer over a vertical porous plate. Mukhopadhyay et al. (2012) investigated forced convective flow and heat transfer over a porous plate in a Darcy-Forchheimer porous medium in the presence of radiation. Abmed and Kalita (2012) discussed MHD transient flow through a porous medium bounded by a hot vertical plate in the presence of radiation. Kumar and Varma (2011) considered thermal radiation and mass transfer effects on MHD flow past a vertical oscillating plate with variable temperature effects and variable mass diffusion. Ravi Kumar et al. (2014) examined the combined effects of heat absorption and MHD flow on convective Rivlin-Ericksen flow past a semi-infinite vertical porous plate with variable temperature and suction. Sharma and Ajaib

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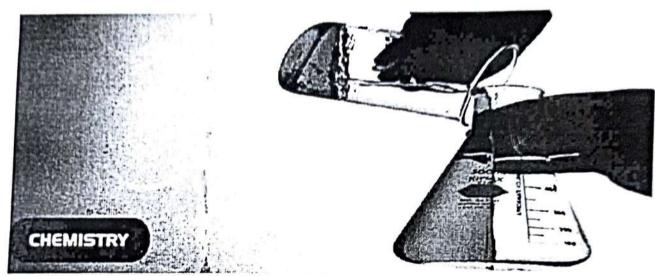
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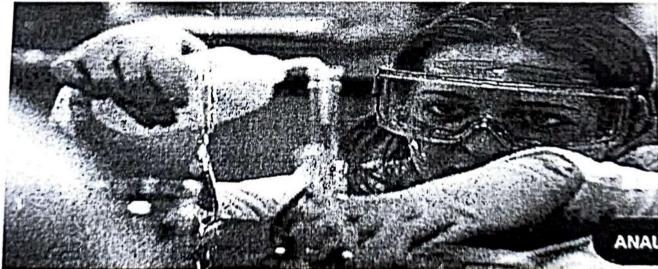
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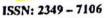
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PHASE EQUILIBRIA FOR BINARY MIXTURES OF NONANE WITH OCTANE AND OCTANE WITH ORTHOXYLENE.

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Asian Journal of Research in Chemistry and Pharmaceutical Sciences

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PHASE EQUILIBRIA FOR BINARY MIXTURES OF NONANE WITH OCTANE AND OCTANE WITH ORTHOXYLENE, METAXYLENE AT 101.3 kPa

G. Chandra Sekhar*1 and Ming-Jer Lee2

¹Department of Chemistry, Government Degree and PG College, Puttur, Chittoor, 517 583, (Affiliated to S V University, Tirupati), Andhra Pradesh, India.

²Department of Chemical Engineering, National Taiwan University of Science and Technology, 43 Keelung Road, Section 4, Taipei 106-07, Taiwan.

ABSTRACT

Isobaric vapour-liquid equilibrium boiling temperature measurements have been determined at 101.3 kPa as function of composition for the binary mixtures of nonane with octane and octane with orthoxylene and metaxylene by using a recirculation type apparatus. The experimental temperature, vapour and liquid composition (T-x-y) results were correlated with the NRTL and UNIQUAC models. All systems studied here behave like non-ideal solutions.

KEYWORDS

Nonane, Octane, Orthoxylene, Metaxylene, Isobaric, Vapour liquid equilibrium and Binary.

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INTRODUCTON

Experimental data of excess thermodynamic properties of liquids and liquid mixtures are of great fundamental and practical importance. These properties allow one to draw information on the structure and interactions of mixed solvents. The knowledge of phase equilibrium properties of liquid mixtures are fascinating and of great fundamental. practical importance, and industrial points of view. An accurate and complete knowledge of VLE data on the mixtures under consideration is necessary for the design of distillation equipment. In general, alkanes show a relatively low reactivity, because their C bonds are relatively stable and cannot be easily broken. Unlike most other organic January - March 114

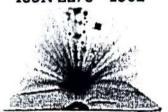


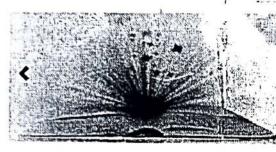
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Synthesis and Antimicrobial Activity of Novel Urea/Thiourea Derivatives

T. Narasalah, G. Chandra Sekhar* and V. Prabhakara Rao

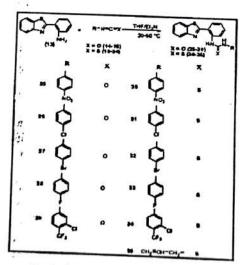
Department of Chemistry, Govt. Degree and PG College, (Affiliated to Sri Venkateswara University, Tirupati), Puttur, 517 583, A. P., INDIA
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Accepted on 3rd February, 2019

ABSTRACT

Synthesis of novel urea and thiourea derivatives has been accomplished by reacting 2-(benzo [d]thiazol-2-yl) aniline with various isocyanates and thio isocyanates. Structures of all the newly synthesized compounds were characterized by IR, HNMR, CNMR, mass and elemental analysis. Their structures were established by analytical and spectral data. All the newly synthesized compounds were screened for their antibacterial activity against gram positive bacteria such as Staphylococcus aureus (ATCC-29737) and Bacillus subtilis (ATCC-6633) and the gram-negative bacteria such as Escherichia coli (ATCC-2343) and Pseudomonas aeruginogsa (MTCC-1034) using cup plate agar diffusion method. Synthesized compounds exhibited high antibacterial activity against both gram positive and gram-negative strains. Compounds 28, 33 exhibited good antifungal activity, remaining title compounds exhibited moderate antibacterial and antifungal activities. All the newly synthesized compounds exhibited promising antimicrobial activity.

Graphical Abstract



Synthesis of urea and thiourea derivatives

Keywords: Urca, Thiouren, Antibacterial activity, Antifungal activity.



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UN CONTRIBUTION TO THE PROTECTION AND EXECUTION OF HUMAN RIGHTS : A STUDY.

Dr.C.Ramana Reddy, HOD, Dept of Political Science, Govt. Degree & P.G. College, NAGARI, Chittoor (Dt.), A.P.- 517590.

1. ABSTRACT

Human rights are constantly evolving throughout the human history. These were reflected in the ancient period through the Vedas, Babylonian Code of Hummurabi, the Bible, the Quran and the Analects of Confucious. In the modern period human rights were defined by Scottish philosopher John Locke, who advocated the theory of Natural Rights. After the end of the first world war, the League of Nations formed aimed at to achieve the protection of human rights was one of its goals. In the aftermath of the atrocities of second world war, there was increased concern for the social and legal protection of human rights as fundamental freedoms. Hence, the paper attempts how the UNO defined the concept of human rights and to conclude the various human rights treaties regarding the execution and protection of human rights. The paper also covered the various mechanisms which are working under the UNO in this regard.

Objectives of the paper.

- 1.To trace out the historical evolution of human rights.
- To explore the importance of Universal Declaration of Human Rights (UDHR).
- 3. To analyse the various mechanisms of UNO for the protection and execution of human rights.

NEED OF THE STUDY

Rights are the ground work of a state. The nature of the state is known by the rights it maintains. For the socio, economic and political development of people in the country as well as in the world rights are necessary for physical and mental development. Human rights played a vital role in the society. Without human rights there is no peaceful atmosphere prevailed in the society and comfortable life is not possible. The paper attempts that how the UNO framed Universal Declaration of Human Rights (UDHR), various treaties which are promoting the better implementation of human rights across the world. Also to trace out the network of various mechanisms of the UNO regarding the protection and execution of human rights.

INTRODUCTION

Human rights are rights inherent to all human beings, whatever our nationality, place of residence, sex, ethnic origin, color, religion, language or any other status. We are all equally entitled to our human rights without discrimination. These rights are all interrelated, independent and indivisible. These rights are universality in nature. Universal human rights often expressed and guaranteed by law in the forms of treaties, customary international law, general principles and other sources of international law. International human rights law lays

UN CONTRIBUTION TO THE PROTECTION AND EXECUTION OF HUMAN RIGHTS: A STUDY.

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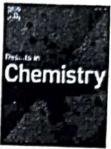
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AUTHOR INFORMATION PACK

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Phase equilibria for binary mixtures of hexane with orthoxylene. metaxylene, and nonane with hexane at 101.3 kPa

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ABSTRACT

Experimental measurements of isobaric vapour, liquid equilibrium boiling point temperature were determined at 101.3 kPa as function of concentration for the two mixtures of hexane with orthoxylene, metaxylene and nonane with hexane by using a continuous recirculation type apparatus. The measured temperature, vapour and liquid concentration (T-x-y) results were correlated with the NRTL and the UNIQUAC models. Each binary mixture system has passed the thermodynamic consistency test of Herington. The activity coefficient values (.) are greater than unity in three systems for all measurements. The systems studied in the present investigation are hexane with orthoxylene, metaxylene and nonane with hexane show relatively larger deviations from Results' law. All the systems studied here behave like non-ideal solutions. All binary systems investigated were found to be nonazeotropic in nature.

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1. Introchation

The knowledge of vapour-liquid equilibrium (VLE) properties of each constituent compound in the vapour phase was calculated by using the two-term virial equation of state incorporated with of mixtures is not only fundamentally but also practically important for process development. Separation of aliphatic and atomatic hydrocarbons is commonly encountered problem in the refinery industry. Recently, Gonzalez et al. [1] found that dimethylbenzenes can be extracted from a liquid mixture of dimethylbenzenes and hexane by using the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate. [EMim][ESO]. For the system of hexane + 1,4-dimethylbenzene, isothermal VLE data at 313.15 K have been reported by Goral [2].

Now a days Chemists and Chemical engineers have given great fundamental and practical importance to experimental measured data of excess thermodynamic & physical properties of pure liquids and binary liquid mixtures. These excess properties help one to get information related to the structure and composition of compounds and different types of interactions present in binary mixed solutions. Possessing the knowledge of phase equilibrium properties of binary liquid mixtures to researchers are lascinating, innovating and of great fundamental, practical importance, and industrial applications. The separation of aliphatic hydrocarbons with aromatic hydrocarbons in the refinery

industry is commonly encountered problem. To design industrial distillation equipment, it is necessary to have an appropriate and complete knowledge of vapour liquid equilibrium data on the binary liquid mixtures for both Chemists and Chemical engineers. In general, saturated hydrocarbons (alkanes) exhibit a comparatively low reactivity and inert, because their carbon bonds are relatively strong and stable and cannot be easily broken. Not like most other organic compounds which have functional groups, they possess no functional groups but possessing carbon and hydrogen only. Crude oil comprises of a mixture of liquid alkanes and other hydrocarbons. The most prominent commercial resources for alkanes are natural gas and gasoline [3].

Our recent research project is deals to the well-mannered study of liquid systems comprising of aliphatic saturated and aromatic hydrocarbons in terms of to their environmental significance. The experimental measured data in the direction of a practical point of view, are useful and helpful for the design of storage, method of mixing and process industrial equipment. This behavior attributed primarily to understand the specific interactions between unlike molecules of the present experimental measured systems. Our novel research project is dedicated to the systematic study of binary liquid systems containing modeling liquid fuel engines. Hexane is an example of saturated hydrocarbon (alkane). Hexane isomers are largely un reactive, because they are very non-polar and are most frequently used as an inert solvent in so many organic synthetic reactions. Hexanes being main constituents of gasoline and glues are used extensively for manufacturing of shoes, leather products and roofing materials. Additionally, Hexane is used as solvents to extract oils for cooking and cleaning agent for shoes, furniture and textile manufacturing Industries.

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E-mail address: cogundat@gmail.com (C.C. Selchar).

⁽Recognised as a research center by UCC-SERO, Hyderahad & Sri Venkareswara university, Turupati) AP, INDIA.



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సదాశివపేట, సంగారెడ్డి జిల్లా, తెలంగాణ.

ಭಾವೆಬಿಣ හුම් ුජි හිට ඩජි

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ම්ධ: 08-02-2020



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ఆంధ్ర మహాభారతం - గాంధారి 'ధర్మం'

- డా.. యస్.పి. సంజీకరెడ్డి, సహాయ ఆచార్యులు, తెలుగు విభాగం, ప్రభుత్వ డిగ్రీ కళాశాల, ఎర్రగుంట్ల, కడప జిల్లా.

ప్రస్తావన :

మానవుని జీవితంలో అనేక సంఘటనలు జరుగుతూ ఉంటాయి. ఎట్టి సంఘటనలు జరిగినా, ఎలాంటి ఒడు దుడికులు కలిగినా వాటి నుంచి కలిగే మంచి ఫలితాలకు పొంగిపోక, చెడు ఫలితాలకు కుంగిపోక, మనోదైర్యంతో స్వపర భేదం లేకుండా, నిష్పాక్షికంగా సమాజ సమ్మతమైన ధర్మం మార్గాన పయనించే మానవుడు వ్యక్తివరంగా, నమాజపరంగా ఒక విశిష్టమైన స్థానాన్ని పొందగలడు. ధర్మమార్గాన పయనించి విశిష్టమైన స్థానాన్ని పొందడానికి స్త్రీ పురుష భేదం లేదు. పుత్రులపై మమకారంతో కొన్ని సందర్భాల్లో అధర్మ స్థానాన్ని పొందడానికి స్త్రీ పురుష భేదం లేదు. పుత్రులపై మమకారంతో కొన్ని సందర్భాల్లో అధర్మ మార్గాన నడిచిన ధృతరాడ్సుడికన్నా, అవినీతులైన కుమారుల పట్ల పుత రేమకంటే ధర్మానికి ప్రాధాన్యత ఇచ్చిన ధర్మవేదికగా గాంధా కవిత్రయ భారతంలో ఇచ్చిన ధర్మవేదికగా గాంధా కవిత్రయ భారతంలో ద్రముఖమైన స్థానాన్ని పొందినట్లు కన్ఫిస్తుంది.

తల్లిదండ్రులతో గాంధారి "ధర్మం" :

గాంధారి అంధుడైన దృతరాష్ట్రని తండి మాట ప్రకారం వివాహం చేసుకోవడం స్పష్టమయింది. సహజంగా అంధత్వం కలిగిన భర్త కొరకు కృతిమ అంధత్వాన్ని ఆపాదించుకొన్న అర్థాంగిగా కనిపిస్తుంది. ఈ సందర్భంలో గాంధారికి పతిపై గల భక్తి, (పేమ స్పష్టమవుతున్నాయి. ఈ సందర్భంలో గాంధారి త్యాగనీరతి స్పష్టమవుతోంది. మాతృదేవోభవ, పితృదేవోభవ అనే ధర్మమార్గంలో నడిచింది. కాబట్టి తండి కోరికను అనుసరించి ప్రవర్తిం చింది.

భర్త విషయంలో గాంధారి "ధర్మం" :

కృష్ణరాయుభార నందర్భంలో దృతరామ్మనిచే పిలిపించబడ్డ గాంధారి వచ్చి భర్తతో "నీ ఫుతుడవినీతు డగుట యొతిగి, యొతిగి వాని వశంబున నేల పోయొ దీపు పాండవులకు నేమి ఇచ్చితేని, నడ్డపడ నెవ్వరికి వచ్చు నదిప........"

అని పలికింది. అధిప అను సంభోధనలో రెండర్ధాలు కన్పిన్తున్నాయని చెప్పవచ్చు మామూలుగా రాజా అని సంబోధనం ఒక అర్థం. మరొక అర్థంలో కురు సామాజ్యధి పతిని' కాబట్టి నీవు అధికారాన్ని ఉపయోగించి కుమారుని దండించి పాండవులకు రాజ్యాన్ని ఇవ్వవలసిందని సూచన. అధిప అను సంబోధనము సాభాప్రాయమని "జక్కా వేంకట రమణప్ప' చెప్పారు. అజ్ఞాపించడమే కాని బ్రతిమాడుట దృతరాడ్డ్యునికి తగదన్న అభిప్రాయం ఈ పదం వలన స్పురిస్తుంది.

మూలంలో గాంధారి ధృతరాష్ట్రునితో అవినీతుడయిన దుర్యాధనునికి రాజ్యం లభించింది. కొడుకు పాపచింత తెలిసి నీవు వాని బుద్ధినే అనునరించావు. వీడు కామక్రోధ మోహితుడు, లోభగ్రస్థడు, దురాత్ముడు, మూడుడు, దుస్సహాయుడు, నిన్ను బలవంతంగానైనా మరల్చడానికి అసాధ్యుడు. అట్లాంటి వానికి రాజ్యం ఇచ్చినందుకు తగిన ఫలితం వచ్చింది. సామము చేత తరించడానికి వీలయ్యే అవదవట్ల దండాన్ని ఎవడు చ్రయోగిస్తాడు అని పలికింది.

శత్రువులు దాడి చేయకుండా ఉండాలంటే పాండవు లతో కలిసి ఉండాలని, పాండవులు ఖలవంతులు కాబట్టి సామమార్గాన్నే పోవాలి. కాని దండాన్ని ప్రయోగించ రాదని హితబోధ చేసినట్లుగా మనకు కన్పిస్తుంది. కేవలం స్వడ్రయోజనాన్ని ఆశించి పలికినట్లుగానే ఉంది కాని, ఆమెలోని నిష్కళంకమైన ధర్మగుణం ఖహిర్గతమవడం లేదు.

ప్రభుశ్వ డిగ్రీ కాలేజ్, సదాశివ**ేం**ట. భారతీయ *పాహిత్యం – చకుర్మి*థ పురుషెంద్యాలు:అంతర్జాతీయ సదస్సు –ప్రవ్యేకనంచిక | 151

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<u> 3. ක.පරි. කියාණ, කිකපෘ ජිපාැතවෙ</u>

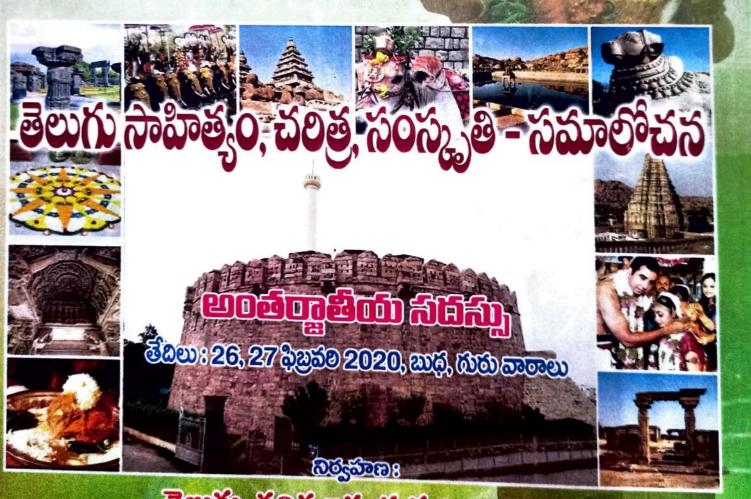


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గారికి, ఆచార్య సూర్యాధనుంజయ్ గారికి, శ్రీ రొక్కం కామేశ్వరరావు గారికి, శ్రీ జె.ఎస్.ఆర్.కె. శర్మ గారికి, డా॥ ఎం. ఇందిరాశాంతి గారికి, డా॥ ఏ. శ్రీదేవి గారికి, శ్రీ విజయ్ కుమార్ రెడ్డి గారికి, శ్రీ కె. శ్రీనివాస్రెడ్డి గారికి, డా॥ కె. మాలకొండయ్య గారికి, ఆచార్య ఎండ్లూరి సుధాకర్ గారికి, ఆచార్య రామనాథంనాయుడు గారికి, డా॥ జి. అంజయ్య గారికి, ఆచార్య యోహన్బాబు గారికి, ఆచార్య మాడభూషి సంతోషకుమాస్ గారికి, ఆచార్య జి. బాలసుబుబ్దణ్యం గారికి, ఆచార్య తప్పెట రామసుబ్బారెడ్డి గారికి, ఆచార్ప చిగిచెర్ల కృష్ణారెడ్డి గారికి, డా॥ ఎస్. ఈశ్వర్రెడ్డి గారికి, డా॥ కె.ఎ.ఎస్.డి. వర్మపసాద్ గారికి, డా॥ ఎం. అన్వర్ హంస్సేన్ గారికి, డా॥ ఏ.ఎ.ఎస్. కుమార్ గారికి, డా॥ పి. విజయ్కుమార్ గారికి, డా॥ జమ్మన్న గారికి హృదయ పూర్వక ధన్యవాదాలు.

సదస్సు నిర్వహణలో సహాయ సహకారాలందించిన మా కళాశాల అధ్యాపకులు డాం. కె.వి. మురళీకృష్ణ గారికి, శ్రీమతి జయలక్షి గారికి, శ్రీ వి.వి. శేషారెడ్డి గారికి, డాం. ఒబులపతి గారికి, శ్రీ సి. రమేష్ గారికి, శ్రీమతి సుబ్బరాజమ్మ గారికి, శ్రీమతి విజయభారతి గారికి, శ్రీమతి తలత్ పర్వీన్ గారికి, శ్రీమతి ఇండావతి గారికి, డాం. ఇర్ఫానా గారికి, డాం రజిని గారికి, శ్రీమతి శోభారాణి గారికి, శ్రీమతి బి. ధనశ్రీ గారికి, డాం. ఆరతి చక్ర గారికి ధన్యవాదాలు.

అంతర్జాతీయ సదస్సుకు సహకరించిన మా కళాశాల కార్యాలయ నిర్వహణాధికారి శ్రీ పి. విజయకుమార్ గారికి, జె.కె.సి. మెంటర్లు శ్రీ కె. ఈశ్వరయ్య మరియు స్వర్ణలత గార్లకు, ఈ సదస్సులో ప్రత సమర్పణ చేసిన సమర్పకులకు, వివిద కళాశాలల నుంచి విచ్చేసిన అధ్యాపకులకు, పరిశోధకులకు, ఈ పుస్తకాన్ని సకాలంలో అందించిన భావవీణ సాహితీ మాస ప్రతిక నిర్వాహకులు అయిన డా॥. బూసి వెంకటస్వామి గారికి మా హృదయపూర్వక కృతజ్ఞతలు.

ఈ అంతర్మాతీయ సదస్సును విజయవంతం చేయుటకు సహకరించిన మా విద్యార్ధులకు, ఎందరో హితులకు, మరెందరో సన్నిహితులకు అందరికీ మాటలకందని మనఃపూర్వక శుభాభివందనాలు. ISSN No. : 2456-4702 - RNI No. APTEL/2003/12253

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'ടೆನ್ಯಾ ಹೆಲ್ಮ ನಾಟಕಂ – ನಿಮೆನ್ಯಿ – ಏಲಮ್ಮಾರಂ

- డాం. యస్. సి. సంజీవ రెడ్డి, తెలుగు ఉపన్యాసకులు, ప్రభుత్వ డిగ్రీ కళాశాల, ఎర్రగుంట్ల, కడప జిల్లా.

ప్రస్తావన :

ప్రాచీన తెలుగు సాహిత్యమంతా సంస్కృతం నుండి, తెలుగులోకి అనువధింపబడిన సాహిత్యం. ప్రాచీన తెలుగు కవులు. సంస్కృత ఇతి హాసాలను, తెలుగులోకి అనువధించారు. సంస్కృతంలోని ఏ ప్రక్రియనైనా తెలుగు కవులు శ్రావ్య కావ్యాలుగానే రచించారు. దండి రచించిన (గద్యం) గద్య కావ్యం, దశకుమార చరిత్ర దానిని కేతన తెలుగులో శ్రావ్య కావ్యంగా - పద్య కావ్యంగా అనువధిం చాడు. సంస్కృతంలో కృష్ణ మిత్రుడు రచించిన తాత్త్విక నాటకం ప్రదోధ చంద్రోదయం దీనిని నంది మల్లయ్య, ఘంటశింగన అనే జంట కవులు ఒక ప్రబంధంగా అను వాదం చేశారు. పిల్లల మర్రి పనివీరభద్రడు కాళిదాసు అభిజ్ఞాన శాకుంతలాన్ని శృంగార శాకుంతలం అనే కావ్యంగా మార్చేశాడు. అంటే నాటకాలను నాటకాలుగా అనువధించలేదు అని అర్థం. సంస్కృతం లో ప్రపంచ ప్రసిద్ధి చెందిన నాటకాలు, తెలుగులోకి నాటకాలుగానే అనువధింవబడకపోవడానికి చార్యేక సామాజిక కారణాలు వున్నాయి. తెలుగు సాహిత్యం ప్రారంభమైంది. భారతదేశ చరిత్రలో మధ్యయుగం. ఈ కాలానికి నాటక ప్రదర్శన ఉన్నత వర్గాల చేతుల్లో నుంచి క్రింది వర్గాల వారి చేతుల్లోకి వచ్చింది. క్రింది వర్గాల వాళ్లు బ్రతుకు తెరువు కోసం నాటకాలు వేసే స్థితి దాపురించింది. ఆ రకంగా నాటకానికి సామజిక గౌరవం తగ్గింది. అందుకే ప్రాచీన కవులు నాటకాలను, నాటకాలుగా అనువదించ లేదు.

కన్యాశుల్క నాటకంలో రచయిత తీనుకున్న సమస్యలు, వాటికి ఆయన పరిష్కారాలు చెప్పాడా లేదా చెప్పివుంటే ఏ పరిష్కారాలు చెప్పివన్నారు అనే అంశాలను చర్చించడానికి ముందుగా ఒక మౌళికమైన సాహిత్య

సమస్యను చర్చించుకోవలసి ఫ్రెంది. రచయితలు తమ రచనల్లో లేదా సమస్యలను పరిష్కారాలు కూడా చెప్పా లనా, అన్నదే ఈ మౌళిక సమస్య. దీని మీద రెండు రకాల అభిప్రాయాలు వ్యక్తం అవుతున్నాయి.

ఒకటి :

రచనలో అంతా రచయితే చెప్పకూడదు. సమస్యను అవిష్కరించి, పాఠకుడిలో ఆలోచనలు లేపి పరిష్కారాన్ని పాఠకులకే వదలిపెట్టాలి. రచయిత పాఠకుడి వివేకం మీద విశ్వాసం వుంచాలి. సాహిత్యంలో సమస్యలకు పరిష్కారాలు వెదకటం తెలివి తక్కువ పని. దీనిని విమర్శ నాత్మక వాస్తవికత అంటారు.

రెండు :

రచయిత ఒక సామాజిక సమస్యను చిత్రించినప్పుడు దానికి పరిష్కారం చెప్పే బాధ్యత కూడా రచయితదే. పరిష్కారం చెప్పిన రచన పాఠకులను నడి సముద్రంలో వదిలేస్తుంది. ఇది సామ్యవాద వాస్తవికత.

రచయితలు పరిష్కారాలు వెప్పాలి :

రచయితలు సామాజిక సమస్యలను చిత్రించడమేకాక వాటికి పరిష్కారాలు కూడా చెప్పాలి. పరిష్కారాలు చెప్పి నంత మాత్రాన పాఠకులను అవమానించినట్లు భావిం చడం అర్థం లేని పని, సమస్యకు పరిష్కారాలు చెప్పటం ఆధునిక కాలంలో చర్చినీయాంశమైనది. కాని ప్రాచీన సాహిత్యంలో పురాణేతి హాసాలలో వున్నది ఇదే దుష్టశిక్షణ, శిష్ట రక్షణ అనేది సమస్యకు పరిష్కారం చెప్పేదిగా వున్నది. శిశుపాల వధ, వర కాసుర వధ, కీచకవధ, వంటివన్నీ సమస్యలకు పరిష్కారాలు చెప్పిన కథలే. కురుక్షేతం యుద్దము, రామరావన యుద్దం, కూడా సమస్యలకు పరిష్కారాలు చెప్పిన కథలే. కురుక్షేతం పరిష్కారాలు చెప్పిన కథలే. కురుక్షేతం కురుష్టారాలు చెప్పిన కథలే. కురుక్షేతం కురుష్టారాలు చెప్పిన కథలే. కురుక్షేతం కూర్పై కూడా పరిశీలించినప్పుడు ఎన్నో కథలు, కవితలు,

కె.వి.ఆర్. ప్రభుత్వ మహికా కకాతాల, కర్మూలు. 94 | తెలుగు సాహిత్యం, దలక్ర, సంస్కుత - సమాలోదన - అంతర్జాతీయ నడస్సు

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నవలలు, నాటకాలు, సమస్యలకు పరిష్కారాలు చెప్పినవి కనిపిస్తాయి. అందువల్ల సాహిత్యంలో నమస్యలకు పరిష్కారాలు చెప్పటం రచయిత బాధ్యతగా గుర్తించాలి. కన్యాశుల్క నాటకం, సమస్యలు - పరిష్కారాలు:

కన్యాశుల్క నాటకంలో సమస్మ జీవితం మూఢనమ్మ కాలు, మూఢచారాలతో కూరుకు పోవడం. దీనికి పరిష్కారము, సంఘ సంస్కరణ, కన్యా శుల్క నాటకంతో ఈ సంస్కరణే చిత్రింపబడింది.

స్ట్రీలను పురుషులు ఆవమానించడం, మోస గించడం :

పూట కూళ్లమ్మను గిరీశం మోసం చేస్తున్నాడు. ఒక్క పూట కూళ్లమ్మనే కాదు అతుడు స్ట్రీ జాతినే వచించేవాడు. వెంకుపంతులు కోడలకి (పేమ లేఖ ద్రాశాడు. పూట కూళ్లమ్మ దగ్గర డబ్బు తెచ్చి మధుర వాణి దగ్గర ఖర్చు పెడుతున్నారు. మధురవాణి దగ్గర అబద్దాలు అన్నీ చెప్పి మోసం చేస్తున్నాడు. బుచ్చమ్మను సుబ్బు పెళ్లీ తప్పించే నెపంతో, స్వార్ధబుధ్ధితో లేవదీసుకొని పోతాడు. ఇలాంటి గిరిశం అప్పటి సమాజానికి ఆధునిక వేశంలో వున్న చీడ పురుగు, అప్పటి సమాజానికి ఇతను ఒక సరికొత్త సమస్య దీనికి గురజాడ చెప్పిన పరిష్కారం ఏమిటి.

రామప్ప పంతులు మినాక్షిని నాశనం చేయడమే కాక ఆమె ప్రవర్తన బాగా లేదని తానే ప్రచారం చేస్తున్నాడు.

మధురవాణి కుటుంబాలను నాశనం చేసే స్త్రీగా కుటుంబాలు కలిగిన వాళ్లంతా ముద్ర వేశారు. సభ్య సమాజం అంతా ఆమెను ఒక అవాంఛనీయమైన వృక్తిగా చూస్తున్నారు.

అగ్నిహోత్సవధాని, లబ్దావదాని లాంటి వాళ్లకు కన్యాశు ల్కం ఇవ్వటం కాని, తీసుకోవటం కాని, చిన్న పిల్లల్ని ముసలివాళ్ల, కిట్బ పెళ్లి చేయటం ఒక అనాగరికతగా, తోచటం లేదు, ఇవి ఇలాంటీది కన్యాశుల్కం నాటకంలో వున్న సమస్యలు. వీటిని గురజాడ ఎలా పరిష్కరించాడు. సంస్కరణే గురజాడ పరిష్కారం :

గురజాడ పురాణాలలో లాగా దుర్మార్గుల్ని చంపే పరి ష్కారం చెప్పలేదు. మార్సిజం చెప్పుతున్నట్లుగా, వర్గశత్మ నిర్మూలనను కూడా పరిష్కారంగా చెప్పలేదు. ఆయన సంస్కరణ యుగ రచయిత. సంస్కరణ వృత్తిలో మార్పును ప్రతిపాధిస్తుంది. బుద్ధి చెప్పటం, సున్నితంగా తిరుగుబాడు చేయటం, చదువు చెప్పటం వంటిది గురజాడ సాహిత్యంలో కన్పించే పరిష్కారాలు. వేమన చంప దగిన యట్టి శ(తువు చేతికి చిక్కినా, అతన్ని చంపకుండా భీ పో అనడమే చావుతో సమానమన్నాడు. మనవతా వాద రచయిత అయిన సురజాడ అప్పారావుకు వేమన ఆదర్శం అయితే గురజాడ ఈ కొద్ది మార్పు పరిష్కా రానికే పరిమితం కాలేదు. ట్డ్రీ పాత్రలతో పెద్ద తిరుగుబాబే చేయించాడు. నేటి వర్గపోరాటానికి గురజాడ చిత్రించిన స్ట్రీ పోరాటం తొలి రూపకంగా కనిపిస్తుంది. పూటకూళ్లమ్మ తనను వంచిస్తున్న గిరీశం మీద ప్రతీకారం తీర్చుకోవటానికి చీపురు కట్ట తీసకొని మధురవాణి ఇంటికి వస్తుంది. వంచనకు గురి అవుతున్న మహిళలు, అందుకు బాధ్యు లైన పురుషుల మీద తిరుగుబాటు చేయటం కన్యాశుల్క నాటకంలో ఒక ప్రధాన పరిష్కారం. ఆది పూట పూట కూళ్లమ్మతోనే ప్రారంభమైంది. తనను మోసం చేసిన రామప్ప పంతుల్ని పెళ్లాడమని మీనాక్షి వెంటబడి తరుము తుంది. ఇందులో ఆమెకు మధురవాణి అండ వుంది. తనకు చెప్పకుండా, తన కూతురికి పెళ్లి నిశ్చయించిన భర్త మీద వెంకమ్మ బావిలో దూకి నిరసన తెలుపుతుంది. ఆత్మహత్య నా నిరసన అని ఈ వాళ స్ట్రీ వాదుల బ్రాస్తున్న కవితలకు తొలి రూపం వెంకమ్మ బావిలో పడటం. తన ప్రమేయం లేకుండా, తనను వితంతువును చేసి జీవితాను భవమే లేకుండా చేసిన పురుషు స్వామ్య సమాజం మీద బుచ్చమ్మ తన చెల్లిలి పెళ్లి ఆపటం కోసం గిరీశంతో వెళ్లిపోతుంది. కన్యాశుల్క వివాహాలు చేసే అలవాటు వున్న అగ్నిహోత్రావు దానిని మధురవాణి మహేశంతో వైరాగ్య గీతం ఆలపిస్తూ తరిమి కొట్టిస్తుంది. అవిధేయు డైన భర్త కరటిక శాస్త్రి ఆయన

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భార్య భర్త మీద కోపం తీర్చుకోవడానికి భర్తకు ఇష్టం లేని దొండకాయ కూరనే ప్రతిసారి పండిపెడుతుంది. మధురవాణి తనను హీనంగా చూసే సభ్య సమాజంలోని అసత్యతను అనేక రకాలుగా విమర్శించింది. తనకు ఏమీ సంబంధం లేకపోయినా సుభ్సి పెళ్లి తప్పించడంలో కీలక పాత నిర్వహించి తన సామాజిక బాధ్యతను నిర్వహించింది. లజ్జావదానిని అతను అజ్జానాన్ని మన్నించి సంస్కరించే ప్రయత్నం చేసింది. రామప్ప పంతులు దుర్మార్గాలను ఎప్పటికప్పుడు ఎండగడుతూ వచ్చింది. తననే కాక అనేక మంది ట్వీలను వంచించి, గిరిశం

మోసాన్ని సౌజన్యారావు పంతులు ముందు ప్రదర్శింది. చివరకు "పాపం ఆయన్ని బతక నీయండి" అన్నది. కన్యాశుల్క, నాటకంలో రచయిత చూపించిన పరిష్కా, రాలలో కెల్లా ఉత్తమ పరిష్కారం మధురవాణి గిరీశంను 'బతకనీయ మనటమే'. వేశ్య పట్ల అశాస్త్రీయమైన అవగాహన కల్గిన సౌజన్యారావు పంతులకు తన వాద బలంతో ఆటకం కలిగిస్తుంది. మధురవాణి, నాటకంలో ఆమె చుట్టూ తిరుగు పాత్ర లేదు. మహిళలలో తిరుగు బాటు చేయించటం, ఏలైన చోట సంస్కరించటం గుర జాడ కన్యాశుల్క నాటకంలో చూపించిన పరిష్కారాలు.

ಆಧ್ (గంధాలు :

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RADE RELATIONS BETWEEN INDIA AND AFRICA: A STUDY

Dr.C. Ramana Reddy

Lecturer in political science, Government Degree College, NAGARI, Chittoor(Dist). Andhra Pradesh(State).

ABSTRACT

Africa and India are separated by the Indian Ocean .The geographical proximity between the horn of Africa and the Indian sub – continent has played an important role in the development of the relationship since ancient times.

India has emerged as Africa's the largest trade partner behind China, EU & USA whilst Africa emerged as India's sixth the largest trading partner behind EU, China, UAE, USA & ASEAN. There are three elements to India's trade relations with Africa – increasing the volume of imports and exports between the two countries; Government support to the private sector, the diverse nature of India's economic engagement both government and Private, with Africa.

billion by 2020. This is almost five times more than that of 2015. Regarding the imports and exports, African exports to India are growing at a rate of 32 % annually, with Indian exports to Africa at a rate of 23%. The top six African exports to India are Nigeria, South Africa, Angola, Egypt, Algeria and Morocco and account for 89% of total African exports by value to India, mainly due to exports of oil, gas, ores and gold. Trade is significantly more diversified arouse African countries at the product level and all exports from India seem to have some degree of technological input. The major challenges faced by exporters and importers from India and Africa are primarily: transport and logistics costs: poor business environment (lack of ease of doing business); corrupt practices; and access to trade finance. The major threat to India's trade relations with Africa is the pressure of China, USA and EU in Africa. Regarding trade strategy of USA is to reduce dependence of middle- east oil and hence they went for greater purchase of oil from Africa. China also has been offering soft loans which are being lapped up by capital starved African nations. The paper attempts the origin of India-Africa trade relations, its evolutionary growth, constraints in India-Africa trade and also what are the threats to it from the global competition especially from USA, China and EU.

Need of the study:

India-Africa relations are age old and it had date backed to BC. Lot of research already done on India-Africa relations. Now i would like to publish the paper on India-Africa trade relations in the post-cold war era because due to the globalization the volume of growth rate in India-Africa trade steadily increased especially in the Post 2000 era. So the paper attempt the following areas such as the recent trends in India-Africa trade relations, the favourable conditions in India-Africa trade growth and also what are the efforts taken by India in this regard. The paper also analyse the various constraints regarding India-Africa trade relations and also gives some remedies to overcome the constraints.

HYPOTHESIS

- To examine the brief historical background of India-Africa relations.
- To explore the brief political relations between India and Africa.
- To analyse the evolution of trade relations of India-Africa.
- To trace out the initiatives by India for trade development with Africa.
- To study the constraints and remedies to India-Africa trade.



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ర్జుధిక సంపాదకులు:

පි. කි. කිලුකිම

వైన్ ప్రైవ్యేపాల్ & జాఖాఖపత్తి, తెలుగు విభాగం, వి.ఎస్.ఆర్ & ఎస్.వి.ఆర్ కళాశాల, తెనాలి.

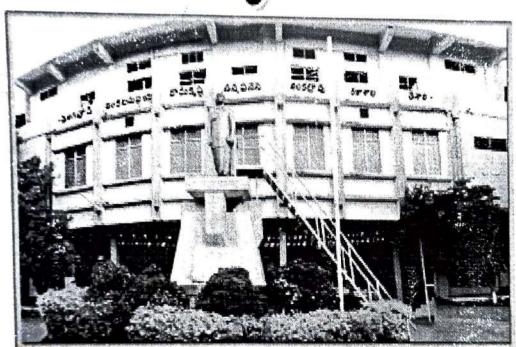




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24, 25 ఆగష్టు 2020

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- <mark>డాగి. యన్.సి. సంజీకరెడ్డి,</mark> తెలుగు ఉపన్యాసకులు, ప్రభుత్వ డిగ్రీ కళాశాల, యర్రగుంట్ల, (కడప జిల్లా).

సారాంశము :

గురజాడ రచించిన కన్యాశుల్క నాటకం ఆనాడు సమాజంలో వున్న కన్యాశుల్క దురాచారానికి వ్యతిరేకంగా బ్రాయబడింది. ఈనాడు సమాజంలో కన్యాశుల్కం లేదు. కాని ఆ నాటకం ఇంకా సజీవంగా నిలిచి వుంది. అందుకు గల కారణం కన్యాశుల్కం ఒక ఆధునిక మహాయితిహాసం అని చెప్పవచ్చు. రామాయణ భారతాలు సమగ్రమైన రాచరిక వ్యవస్థను ప్రతిబింబించాయి. ఇవాళ రాజరిక వ్యవస్థ లేదు. కానీ రామాయణ భారతాలను నాట కాలుగా, సినిమాలుగా, సీరియల్స్గా, ఈనాటికి ప్రజలు ఆదరిస్తున్నారు. కన్యాశుల్క నాటకం కూడా ఆధునిక మహేతికాసం అని ఈ వ్యాసంలో వివరించడం జరిగింది.

కన్యాశుల్కం సమస్య నశించిపోయినా నాటకం ఇంకా నిలిచి ఉండటానికి కారణం అది ఒక ఆధునిక మహా యితిహాసం.

ఏ రచనకైన శాశ్వతత్వం అనేది ఉండదు. ఎక్కువ కాలం ఒక రచన ప్రజలలో నిలిచి ఉంటే అది అంత గొప్పది అవుతుంది. ఒక వ్యవస్థను చిత్రించిన రచన ఆ వ్యవస్థ నశించిపోగానే తన స్థానాన్ని కోల్పోతుంది. ఆ వ్యవస్థ నశించిపోగానే తన స్థానాన్ని కోల్పోతుంది. ఆ తర్వత కూడా దానిని ప్రజలు ఆదరిస్తూ ఉంటే దానికి తర్వత కూడా దానిని ప్రజలు ఆదరిస్తూ ఉంటే దానికి వేరే కారణాలుంటాయి. రామాయణం, భారతం సమగ్ర వైన రాచరిక వ్యవస్థను ప్రతిబించాయి. ఇప్పుడు రాచరికం లేదు. కానీ రామాయణ భారతలను రాచరికం లేదు. కానీ రామాయణ భారతలను రాచరికం లేదు. కానీ రామాయణ భారతలను రాచరికం లేదు. పురాణాలుగా వింటూనే ఉన్నారు. చూస్తునే ఉన్నారు. పురాణాలుగా వింటూనే ఉన్నారు. చూస్తునే ఉన్నారు. పురాణాలుగా వింటూనే ఉన్నారు. ఇందుకు రెండు కారణాలు చెప్పుకోవచ్చు.

 మన వ్యవస్థ మారినా మన ఆలోచనలు, అభి రుచులు మారినా, ఆలోచనల పరంగా, భావజాలం పరంగా మనం గతంలో నివశించాము.

ఎ.ఎస్.ఆర్ & ఎన్.ఎ.ఆర్ కళాశాల (స్వయంద్రతిపత్తి), తెనాలి. 29

2. ఒకనాటి వ్యవస్థను అప్పటిరచనలుగ భారత, రామాయణాలు ఒక సమగ్ర చిత్రంగా మనకు అందివ్వడం వస్తువు నశించినా రూపం ఇంకా ఆకర్షణీయంగా ఉండడం మరొక కారణం కావచ్చు.

ఈనాడు ఏ స్ట్రీ కూడా (దౌపదిని అనుసరించడానికి సిద్దంగా లేదు. అలాగే సీతలాగా భర్త అగ్నిలో దూకమంటే సిద్దంగా లేదు. అయినా సీత, (దౌపదుల గాధలను నేటి మహిళల ఆసక్తిగా వింటూనే ఉన్నారు. ఇందుకు కారణం ఆ పాత్రలోని సజీవ గుణాలే.

ఈ అవగాహనతో కన్యాశుల్కం గురించి ఆలోచిస్తే ఈ నాటకం కన్యాశుల్క సమస్య నశించిపోతున్న రోజుల్లో వ్రాయబడింది. బాల్యవివాహాలు బలంగా ఉన్న రోజుల్హో వ్రాయబడింది. ఇది ఒక బ్రాహ్మణ కుటుంబ కథ విజయ నగర ప్రాంత భాషలో వ్రాయబడింది. అయినా నేటికి ఆ నాటకానికి ఆదరణ తగ్గలేదు. వరకట్నం ప్రారంభంలో వచ్చిన కాళ్ళకూరి నారాయణరావు గారి వరవిక్రయ నాటకం ఆ రోజుల్లో విఫలమయిపోయింది. వరకట్న సమస్య హద్దు మీరిపోయి స్ట్రీల పాలిట శత్రువుగా మారిన ప్రస్తుత సందర్భంలో ఆ నాటకానికి ఎంతో విలువ ఉం డాలి. కానీ ఆ నాటకం విద్యార్థుల పాఠ్య (గంథాల్లో తప్పా ప్రజల హృదయాలలో స్థానం సంపాదించలేక పోయింది. కన్యాశుల్క నాటకం బాల్య వివాహాలు నశించి పోయినా ఇంకా చూస్తూనే ఉన్నారు. అది ఒక బ్రాహ్మణ కుటుంబ కథ అయినా కులాల కతీతంగా జనమంతా చూస్తునే ఉ న్నారు. కన్నడం, తమిళం లాంటి భారతీయ భాషల్లోనే కాక ఆంగ్లంలోకి, రష్యన్ భాషలోకి కూడా ఈ నాటకం అనువదింపబడింది. ఇందుకు కారణాలు ఏమిటి?

నిలకడగా ఉన్న నమాజాన్ని చిత్రించడం చాలా సులభం, మారతున్న సమాజాన్ని చిత్రించడం కష్టం.

తలుగు సాహి**త్సం సమకాళివత - అంత**్థాకియే **అంతర్జాల విచన్ని** (విజనార్)



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INDIA'S ROLE IN THE SAARC

Dr.C.Ramana Reddy, HOD, Dept. of. Political Science, Govt. Degree & P.G. College, NAGARI, Chittoor(District), Andhra Pradesh- 517290.

ABSTRACT

The establishment of SAARC in 1985 was a milestone in the institutionalization of regional cooperation in South Asia, a region betraying a glaring paradox; abundant in human and natural resources but mired in poverty as well, SALATICE and a accelerating the process of socio-economic development in member states through "collective self-reliance". Its creation, therefore, kindled hopes amongst South Asian Peoples for a better future marked by prosperity and freedom from want. SAARC, has, however, failed to live up to such expectations. India, the predominant power in the region, in its commitment to SAARC, has had tried to ensure that the latter deliver the good by focussing on poverty alleviation, infrastructure development, regional economic integration and proper harnessing region's resources, encouraging people-to-people contact and by taking appropriate measures in this regard. India has urged the member states to put aside their rivalries and concentrate their attention energies on regional development delivering win-win results. Despite this, the hostility between two developed regional powers- India and Pakistan -as well as the in-built asymmetry in the Indo-Centric region and the consequent threat perception among smaller countries of the region as frustrated India's sincere but cautious attempts to make SAARC a meaningful and productive regional organisation."

This article examine India's approach to SAARC since its inception manifesting in its perception attitude towards SAARC and its role in and contribution to SAARC. It will also deal with India's initiatives toward creation a hatter future to CAADC

NEED OF THE STUDY

South Asian Association of Regional Cooperation (SAARC) was established in December 8, 1985 in Dhaka, Bangladesh, for the cause to achieving regional cooperation among the South Asian countries. It is the prototype of other regional arrangements like EU, ASEAN, and APEC etc., Being the biggest country in the SAARC in terms of size and population India is playing prominent role in it. The present study focussed on India's initiatives towards the formation of SAARC also the study to trace out to strengthen India's contribution for a better future of SAARC.

HYPOTHESIS

- 1. To study the origin and evolutionary growth of SAARC.
- To examine the aims and objectives of SAARC.
- To analyse the India's significance in the SAARC.
- 4. To traced out the challenges faced by SAARC.

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A REVIEW ON IONIC LIQUIDS-THEIR CLASSIFICATION, CHARACTERISTICS AND APPLICATIONS

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Abstract

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Ionic liquids (ILs) have emerged as an environmentally friendly alternative to the volatile organic solvents. Being designer solvents, they can be modulated to suit the reaction conditions, therefore earning the name "task specific ionic liquids." Though primarily used as solvents, they are now finding applications in various fields like catalysis, electrochemistry, spectroscopy and material science to mention a few. The present review is aimed at exploring the classification of ILs, their physical properties and applications in various fields.

Key words

Ionic liquids, task specific ionic liquids, magnetic ionic liquids, valorization, tribology, electrochemical window, designer solvents.

1. Introduction

Ionic liquid (ILs) is defined as a salt with melting point below the boiling point of water. Most of the ionic liquids are composed of organic cation and inorganic anions. In order to be liquid at room temperature, the cation should preferably be unsymmetrical. Now a days, volatile organic solvents (VOS) creating increasing air pollution are common reaction media for many chemical processes. VOS cannot be easily separated from the desired reaction products and difficult to recycle. In view of awareness of the deteriorating environment, researches are directed on developing alternative environmental friendly solvent systems to replace traditional volatile organics. Within this context, the interest of ionic liquids (ILs) as "green" solvents has come up as these have extremely low vapour pressure, high thermal stability, which also offers advantages such as ease of containment, product recovery and recycling ability. ILs have been implemented as solvent systems in chemical reactions, synthesis, separations, extractions, electro analytical applications and chemical sensing, among many others. Also, they have high ionic character that enhances the reaction rates to a great extent in many reactions. Keeping in view, the enormous advantages of ILs, this review article briefly describes the meaning of ILs, history, characteristics, applications.

2. Ionic liquids

Ionic liquid (IL) is a salt in the liquid state. In some contexts, the term has been restricted to salts whose melting point is below some arbitrary temperature, such as 100 °C. These substances are variously called liquid electrolytes, ionic melts, ionic fluids, fused salts, liquid salts or ionic glasses [1-3]. Any salt that melts without decomposing or vaporizing usually yields, an ionic liquid. Any ionic substance [for example Sodium chloride (NaCl), melts at 801 °C melts at usually at high temperatures; this is because the ionic bond is quite strong: So, ionic substances have limited applications as most of the reactions are performed at room temperatures. This is where the ionic liquids play a vital role as they have ione characteristics and at the same time are in liquid state.

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Research Article

Avula Venkateswarlu, Sangapatnam Suneetha, Macherla Jayachandra Babu, Jorige Girish Kumar, Chakravarthula Siva Krishnam Raju, and Qasem Al-Mdallal*

Significance of magnetic field and chemical reaction on the natural convective flow of hybrid nanofluid by a sphere with viscous dissipation: A statistical approach

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Abstract: Hybrid nanofluid, which is a combination of Propylene Glycol (PG) - Water (H2O) admixture and paraffin wax and sand, may be utilized as a standby for PG and (H2O) blend in solar thermal framework. Objective of this article is the exploration of the dissipative flow propylene-glycol and water mixture based hybrid nanofluid by a sphere with chemical reaction and heat source parameters. MATLAB in-built solver byp4c is utilized to exhibit the impacts of various parameters on regular profiles including temperature. Correlation coefficient is utilized to elucidate the impact of pertinent parameters on engineering parameters of concern, such as, surface friction factor. Main findings of this work are magnetic field is having a negative association with friction factor and chemical reaction is consuming a significant positive relationship with Sherwood number. It is witnessed that heat source and Eckert number are useful to meliorate the fluid temperature. Furthermore, validation is performed among our results and earlier published outcomes. Good agreement is detected.

Keywords: Hybrid nanofluid, sphere, bvp4c, correlation coefficient, magnetic field, chemical reaction, viscous dissipation

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Nomenclature

μ	Dynamic viscosity [Kg/ms]	
p	Density of the fluid [Kg m ⁻³]	
β_T	Volumetric coefficient of thermal expansion	
a	Radius of the sphere	
β_C	Volumetric coefficient of diffusion expansion	
g	Acceleration of gravity	
υ	Kinematic viscosity [m ² s ⁻¹]	
T	Dimensional temperature of fluid [K]	
k	Thermal conductivity [W m ⁻¹ K ⁻¹]	
С	Dimensional concentration of fluid [mol m ⁻³]	
f'	Dimensionless velocity	
θ	Dimensionless temperature of fluid	
ρc_p	Heat capacity	
ψ	Dimensional stream function	
u,v	Velocity components in x , y directions [m s ⁻¹]	
η	Similarity variable	
f	Dimensionless Stream function	
Φ	Dimensionless concentration of fluid	
Gr	Local thermal Grashoff number	
Gc	Local diffusion Grashoff number	
λ	Buoyancy ratio parameter	
Pr	Prandtl number	
E_c	Eckert number	
S_c	Schmidt number	
Kr	Chemical reaction parameter	
D_m	Molecular diffusivity [m ² s ⁻¹]	
M	Magnetic field parameter	
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Chakravarthula Siva Krishnam Raju: Department of Mathematics, GITAM School of Science, GITAM University, Bangalore-Campus,

Dimensionless coordinate

Volumetric rate of heat source parameter

Chemical reaction parameter (dimensional)

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COVID-19: A LESSON FOR THE WORLD

Dr.C.Ramana Reddy, Asst.Professor Govt Degree&P G College Nagari - 517590 Chittoarint 1 Andhra Pradesh(State)

ABSTRACT

Covid-19 has emerged as a global health threat due to its accelerated geographic spread over the last two years. This article reviews the current state of knowledge concerning the origin, transmission, diagnosis and management of covid-19. It has emerged from China and the virus is believed to have been acquired from zoonotic source and spreads through direct and contact transmission. The symptomatic phase manifests with fever, cough and myalgia to severe respiratory failure. The diagnosis is confirm educing reverse transcriptase PCR. Management of covid-19 is mainly by supportive therapy along with mechanical ventilation in severe cases. Preventive strategies form the major role in reducing the public spread of virus along with successful disease isolation and community containment. At present second wave corona virus drastically spreading in India. Although India has been taking effective corona containment measures the disease is not yet under the control.

NEED OF THE STUDY

COVID-19 as the virus is caused by the novel corona virus. There have been millions of cases of COVID-19 and lakes of deaths across the world and WHO has declared it a pandemic. The pandemic has destructed all sectors on the globe. In view of the comprehensive destruction caused by COVID-19 the paper attempts to create awareness among the people about the disease and also depict the origin, causes for spreading the disease adverse effects and a few advantages. The paper also covers the causes for the spread of corona virus second wave and also proposed a few suggestions to contain the corona virus second wave in India. HYPOTHESIS

- To trace out the origin and spread of COVID-19
- 2. To understand the features of COVID-19
- To analyze the preventive measures to avoid the COVID-19.
- To evaluate the losses and few advantages of COVID-19.

INTRODUCTION

COVID-19 pandemic is tragically affecting people's health, lives and the means of livelihood. It is also affecting the economy and environment across the globe. First wave corona virus almost decreased at the end of 2020 but the at a contract to the contract to

infections and it had reached first place in this regard.

As a specific family of viruses, COVID-19 virus first originated in Wuhan city, China, was declared a pandemic on March 11, 2020 by World Health Organization(WHO). According to WHO it is caused by the newly discovered corona virus, most people got infected and experience mild to moderate respiratory illness and recover without requiring special treatment.

THE SPREAD OF COVID-19

The COVID-19 spreads mainly when an infected person is in close contact with another person. Small droplets and aerosols containing the virus can spread from an infected person's nose and mouth as they breath, cough, sneeze, sing or speak. Other people are infected if the virus gets into their mouth, nose or eyes. The virus may also spread via contaminated surfaces, although this is not thought to be the main route of transmission. The exact route of transmission is rarely proven conclude but infection mainly happens when people are near each other for long enough, people who are infected can transmit the virus to another person up to two days before they themselves

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Ultrasonic velocities and densities have been measured for the ternary system of water, iso-propanol and pyridine as a function of composition at 303.15 K and at atmospheric pressure. From these data, experimental compressibilities and excess compressibilities have been calculated. The excess compressibilities are negative throughout the concentration range of pyridine. These results have been analyzed on the basis of the variations in ultrasonic velocities, compressibilities and excess compressibilities. The presence of weekly bonded alcohol+pyridine structures are noticed in the mixtures of pyridine and isopropanol. The results are discussed in the light of the formation and breakdown of clathrate-like structures and complexes in binary and ternary mixtures.

Research article Open access

Thermochemistry of nano-phased titanium dioxides relevant to energy application: A Review

Yaowen Wang, Tao Feng, Xinbo Li, Liping Li Artide 100033

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Abstract

Abstract

Polymorphs of titanium dioxides have found extensive applications in energy fields such as photocatalytic hydrogen generation and batteries. Further research on the thermochemistry of titanium dioxides should be conducted to attain a more detailed understanding of correlations among the steps of synthesisstructure-properties-performance paradigm for achieving controlled functionality. In this review, we briefly highlight important developments in polymorph structures, experimental accesses, stabilities, and thermodynamic data for nano-phased TiO2. We emphasis the important roles of surface hydration and structural symmetry on the stability of TiO2 in the context of photocatalysis and lithium-ions batteries. Because analogues of TiO2 phases have many important applications, the relevant results summarized in this work may have broad implications for the prediction of functionalities from the viewpoint of



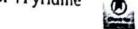
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Ultrasonic studies in the ternary mixtures: Water + Iso-propanol +Pyridine



P. Babu a., N. Prabhakara Rao , G. Chandra Sekhar ., P. Bhanu Prakash

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ARTICLE INFO

ABSTRACT

Ultrasonic velocities and densities have been measured for the ternary system of water, iso-propanol and pyridine at a function of composition at 303.15 K and at atmospheric pressure. From these data, experimental comp folities and excess compressibilities have been calculated. The excess compressibilities are negative throughout the concentration range of pyridine. These results have been analyzed on the basis of the variations in ultrasonic velocities, compressibilities and excess compressibilities. The presence of weekly bonded alcohol+pyridine structures are noticed in the mixtures of pyridine and iso-propanol. The results are discussed in the light of the formation and breakdown of clathrate-like structures and complexes in binary and ternary mixtures.

1. Introduction

Liquids and liquid mixtures have been widely used in processing and product formulation in many industrial applications. Thermodynamic and transport properties of the liquids provide useful information about physical forces acting between the molecules of the same substance in pure liquids and molecules of different substances in liquid mixtures.

Properties such as speed of sound or surface tension and their variation with temperature and composition of the ternary mixture are useful to design engineering processes and in chemical and biological industries. Moreover, a survey of literature has shown that there are no reports on experimental data on speeds of sound in ternary system consisting of water, no-propanol and pyridine. In addition, alkanols and pyridines were widely used in a variety of industrial and consumer applications and hence, knowledge of their physical properties is also of great importance from a practical point of view.

In recent years, much effort has been made with the measurement and interpretation of the ultrasonic properties of liquids and liquid mixsures. The ultrasonic studies are of great importance in helping to understand the nature and extent of the patterns of molecular aggregation that exist in liquid mixtures, resulting from intermolecular interactions

The measurement of the speed of sound is the only direct method to determine the isentropic compressibility, which then provides further access to related thermodynamic properties of the liquids and liquid mixtures. Speed of sound measurements are one of the widely used techniques in the investigation of liquids and are essential in construction and for the validation of fundamental equations of state [6]. As the speed of sound is related with the thermodynamic properties of liqulds, the absorption of ultrasound waves explores the energy dissipation caused by different irreversible processes taking place in liquids during propagation of ultrasound waves. Studies on acoustic properties contribute significantly to improve the knowledge of the microscopic and macroscopic properties of liquids in mixtures. Recently, many researchers [7-10] have studied the acoustic properties of ternary liquid mixtures at different temperatures and also the applications of ultrasonic waves in improved oil recovery in oil and gas industry.

Intensive research work based on sound velocity measurements has long been carried out to investigate the behaviour of liquids and liquid mixtures. The non-sectilinear behaviour of ultrasound velocities, isentropic compressibilties and related parameters of liquid mixtures with changing mole fractions is attributed to the difference in size of the molecules and strength of interaction. Ultrasound study of thermodynamic properties of binary liquid mixtures has been made by several authors. The work is scenty in ternary systems. Ultrasonic studies in ternary systems are presented in this research article.

In the present investigation, ternary system consisting of water, isopropanol and pyridine has been studied in detail at 300 C. Ultrasonic velocities and densities are measured and from this data, adiabetic comprestibilities are estimated. The variations in the ultrasonic velocities, compressibilities and excess compressibilities are discussed as a function of composition of the ternary mixture. Throughout the work the concentration of one of the component is varied keeping the mole ratios

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উপ্রক্রান্তর্গরাক্তির প্রক্রান্তর্গরাক্তি

బీవే మైనా చేయగలవు

- డాక్కి యస్. సి. సంజీక్ష రెడ్డి, రెలుగు ఉవన్యావకులు, ద్రభుత్వ డిగ్గీ కళాశాల, జమ్మలమడుగు, కడప జిల్లా.

కర్మావ్యూర్ణ, మహాకవి బిరుదాంకితులు డాః బోయి లీవున్న గారు వదువెరిగిన వండితులు, జాతీయ భావములు మానవత్వము తొణికినలాడు రచనలు చేయుట వీరి ప్రత్యేకత భీమన్న గారి పాటల తోట నుండి తీసుకున్న గేయం 'నీవేమైన చేయగలవు' మానవుడు మంచి మవసుతో దైవాన్నయినా దర్శించగలడు. ఆ మనమ్ప పవిత్రంగా ఉండాలి. సంకల్పం దృధంగాను, ఉన్నతంగామ ఉండాలి. మానవుడు ఏమైనా సాధించ గలడు. మిగిలివ జీవులకన్నా మనస్సునే దానికి ఆలోచించే ళక్తి మావవువికే పరిమితం కనుక దానిని వినియోగించి డేశప్రగతి, మావవాళి అభ్యున్నతికి నీవేమైనా చేయగలవు ఆవి ద్రజలమ వెన్ను తట్టి చెప్పుచున్నారు. మనస్సును మాల్ఫ్మెప్తే పురోగతి, దావి జాటన నడిస్తే ఆధోగతి, దాని మంచి చాటమ నడిపించే సంకల్పము మానవునికి కలదని రచయిత హెచ్చరిస్తున్నారు. ఈ భావముతో వ్రాసిన గేయ ఖండిక 'వీవేమైవా చేయగలవు' వేదాంత సంబధమైన గుడార్థాప్ని ఇముడ్బుటలో డాబబోయి భీమన గారి డ్రజ్మాకౌకలము ఈ రచవలో కవిపిస్తాయి.

మవప్పు :

విమవేపే వీకు దైవం, అవ్నీ అదే అన్నింటిలో డ్రపాదింటేది మవేపే. మవేపే పాధించే సాధనం, మావపువి ప్రజ్ఞ అంటే కెలివి కేటలు, శక్తి సామర్థ్యములు డ్రగతికి మూలం. మావవ జీవిత విర్మాణావికి మావవుడే విర్మాత అతవి సుఖ శాంతులకు, ఆనందావికి, సేఖ్యానికి కర్ణ ఆతడే. మనం బేపే ద్రతి వవివి మనస్సు వరిశీ లిప్తుంది. అంటే మవమే మవ మనమ్మ. మవిషి దైవంగా మారితేగావి, మవసు దైవంగా రూపొందదు. కమక మనిషి పమాజంలో మంది పమలు పరోపకారం చేస్తుండాలి. పహడ్డాదళ వద్మంపై పౌరభమే మనప్పు, మానవుడు విద్యలోనూ విజ్ఞానంలోనూ వేయి రేకుల వద్మంలా

వికసించాలి. ఏ విధంగా అయితే రేకులన్నీ విడివిడిగా ఉన్న ఒకే పద్మానికి చెంది ఉంటాయో ఆ విధంగానే చదువులో పరిశోధనలు వేరు వేరుగా ఉన్నా వాటికి మూలం మానవుడు కాబట్టి మానవ త్రేయస్సు ముఖ్యం. పద్మానికి సువాసన సహజం మానవ ద్రవృత్తికి, విజ్ఞావానికి శాంతి, పురోగతి ఫలితంగా ఉండాలి. ద్రశాంతలో కూడిన మావఠావాద పరిమళం వ్యాపించాలి. మానవ తేజస్సుకు మూలకారణం మధురమైన మవోవిన్యాసమే! మనస్పు ఎన్ని రకాలుగా ప్రవర్తిస్తుందో చెప్పలేము. అయితే ఆ మనస్సు మధురంగా విహరించి మానవత్వాన్ని వ్యాపింప జేయాలి. మనస్సును గెలిప్తే, మవో వేగం కూడా పార్యమే. పూర్వకాలంలో మనో వేగం కలవాళ్ళు ఉన్నట్లు కెలు మ్తంది. అందని నక్షత నమూహాలను మానవుతు అందుకుంటున్నాడు దానికి కారణం మనమ్నమ గెల్చుకోవటమే! మంచి మనస్పుతో పురుషో<u>త్</u>రమువి **కూడా** గెలువ వచ్చు.

విశ్వం :

మనస్సు పవిశ్రమైన కొలదీ ప్రవంచం అంతా ఒక్క కుటుంబం అనే భావన కలుగుతుంది. స్థేమ శవ్వ మరోకటి ఉండదు. వర్వమావవ సాభాతృత్వం విక సిస్తుంది. ఆరీతి పద్మము వికపించిన కొద్దీ పరిమళం వ్యాపిస్తుంది. ఏ పరిమళమైనా వరే వేగం పెరిగే కొద్ది విశ్వం వ్యాకోచిస్తుంది. విశ్వం ఎలా పుట్టింది అవే దావికి ఇంతవరకు వంతృప్తికరమైన వమాధానం లేదు. ఆధ్యాత్మిక విషయం లోపలికి వెళితే, ఎట్లా అర్థంకారో, ఆధువిక శాస్త్రావికి లోపలి కంటా వెళితే, ఎట్లా ఆర్థంకారో. చివరకు సైన్స్, మతం చెప్పేది ఒకలాగానే ఉంటాయి. ఇలాంటి చోటనే మతం, సైవ్స్ కలుస్తాయి.

విశ్వం అంటే భూమి, చెంద్రుడు గ్రహాలు, నక్ష్మ్రకాలు, గెలాక్సీలు మొదలైన వస్తువులు, వాటి మధ్య వుండే శు 3.2

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Structural, morphological and luminescent studies on Sm3+ doped strontium tin phosphate nanopowder

Y. Nirmal Rajeev, K. Venkatarao, B.V. Naveen Kumar, L. Bhushan Kumar, Sandhya Cole

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Structural, morphological and luminescent studies on Sm3+ doped strontium tin phosphate nanopowder

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ABSTRACT

Sm3+ doped Strontium tin phosphate (SrSn(PO4)2) nanopowder was synthesized using the Solid State Reaction (SSR) method, a well-known commercial technology for device applications. The synthesized nanopowder was characterized by using Powdered X-Ray Diffraction (P-XRD), Field Emission Scanning Electron Microscopy (FESEM) with Energy Dispersive X-ray Spectroscopy (EDS), Fourier Transform Infrared Spectroscopy (FT-IR), Photoluminescence (PL) and Photometric measurements. The average crystallite size of the prepared nanopowder was estimated by XRD using Debye- Scherer's equation which is around 18 nm. FESEM images show the non-uniformly distributed biscuit-like nano-flakes morphology of the prepared nanopowder. FT-IR analysis confirms the existence of phosphate group ions in the sample. PL spectra recorded for the synthesized nanopowder under 401 nm excitation showed three emission bands with the transition at 601 nm and the highest intensity in the Orange region. Photometric parameters such as Colour Rendering Index (CRI), Colour Correlated Temperature (CCT) and Colour purity of the synthesized nanopowder were also measured and. The prepared nanopowder has CRI of 54% with CCT 2017K and colour purity 97.8% which is an excellent material for LEDs and luminescent devices

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1. Introduction

Phosphors are being processed intensively in recent years as they find many applications in lighting and display systems. Aluminates, silicates, and nitride-based phosphors have been most widely used for decades. But Phosphate phosphors are a broad class of chemicals with features that span the entire spectrum of material science and physics. Phosphate compounds possess a complex structure with multiple sites for divalent and trivalent cations to occupy [1]. These Phosphate group phosphors play a very crucial role as a good host, not only serving as a house for optically active ions but also taking the lead as luminous materials due to their superior qualities such as easy availability,

environmental favorable, sufficient large bandgap, low phonon frequency, easiness of synthesis, charge and thermal stability [23].

Rare earth (RE) metal ions are often employed as activators in luminescent materials [4.5]. Due to their chemical stability and ease of manufacture, RE-activated phosphate-based phosphors have been extensively explored for usage in LEDs (Light Emitting Diodes), display monitors, waveguide lasers, scintillators, solar concentrators, solid-state lasers, fiber optics as amplifiers, optical data storage, radiation attenuation materials and X-Ray imaging technologies and undersea communications [6-8]. Among the RE-Lanthanide ions (Ln3+), Samarium ion (Sm3+) is one of the fascinating trivalent ions that acts as an activator for most of the phosphors which generate reddish-orange emission arising due to ${}^4G_{5/2} \rightarrow {}^6H_1$ (where] = 5/2. 7/2, and 9/2) transitions [9]. LEDs are futuristic light sources with a flexible model, high efficiency, energy storage and pollution reduction [10]. The photometric factors such as CIE Chromatic Colour Co-

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Photocatalytic activity of hierarchical CTAB-assisted TiO₂ nanoparticles for polluted water treatment using solar light illumination

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Abstract

A solvothermal method was used to make titanium (TiO₂) nanoparticles templated with cetyltrimethylammonium bromide (CTAB). X-ray diffraction (XRD), transmission electron microscope (TEM), Fourier transform infrared (FT-IR), optical studies (UV-Vis DRS), and energy-dispersive spectrum (EDS) were used to characterise these prepared anatase phases titania particles (EDS). The results of the calculated mean crystalline sizes using XRD and TEM analysis showed that the nanomolecule range 5–15 nm is in good agreement. Photocatalytic studies on CTAB-assisted TiO₂ nanoparticles were also carried out, and the results revealed that the CTAB-assisted TiO₂ nanoparticles had higher efficiencies than the other metal oxide. The decomposition was achieved to be nearly 95% at about 180 min of time for Congo red dye solution with the addition of titania catalyst and H₂O₂ in neutral medium. The results obtained from photocatalytic studies confirmed the stability and reusability of the TiO₂ photocatalyst for several practical applications.

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Photocatalytic activity of hierarchical CTAB-assisted TiO₂ nanoparticles for polluted water treatment using solar light illumination

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Abstract

A solvothermal method was used to make titanium (TiO_2) nanoparticles templated with cetyltrimethylammonium bromide (CTAB). X-ray diffraction (XRD), transmission electron microscope (TEM), Fourier transform infrared (FT-IR), optical studies (UV-Vis DRS), and energy-dispersive spectrum (EDS) were used to characterise these prepared anatase phases titania particles (EDS). The results of the calculated mean crystalline sizes using XRD and TEM analysis showed that the nanomolecule range 5–15 nm is in good agreement. Photocatalytic studies on CTAB-assisted TiO_2 nanoparticles were also carried out, and the results revealed that the CTAB-assisted TiO_2 nanoparticles had higher efficiencies than the other metal oxide. The decomposition was achieved to be nearly 95% at about 180 min of time for Congo red dye solution with the addition of titania catalyst and H_2O_2 in neutral medium. The results obtained from photocatalytic studies confirmed the stability and reusability of the TiO_2 photocatalyst for several practical applications.

Keywords Nanostructure · Photocatalytic · CTAB · Template · Anatase · Solvothermal route

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1 Introduction

The living standard of humans has excelled due to the usage of various conventional natural resources like coal, natural gas and petroleum. The industrial extraction of such nonrenewable end products generated energy crisis and environmental problems [1, 2]. Among the environmental issues, water, soil and air pollutions are of significant concern [3]. Industrial pollutants from various organic productions were released into the environment, which may lead to the foremost environmental crisis. Therefore, the reduction of these pollutants is a first necessity among the researchers in recent years via low-cost and straightforward processes. Removal of environmental impurities and organic contaminants by photocatalytic degradation under UV-visible light irradiation has become a hot spot nowadays. Azo dye, like Congo red dye, was more frequently used as a coloring agent in paper, cotton and several other industries. This carcinogenic effluent discharges from industries and pollute the aquatic ecosystem. As a result, the major challenge among the researchers was to identify a suitable metal oxide catalyst such as SnO2, TiO2, ZnO and VO2 for the treatment of polluted water with an effective method [4]. Among these metal oxides, TiO2 attained much significance due to its role