

### SAPTHAGIRI COLLEGE OF ENGINEERING

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

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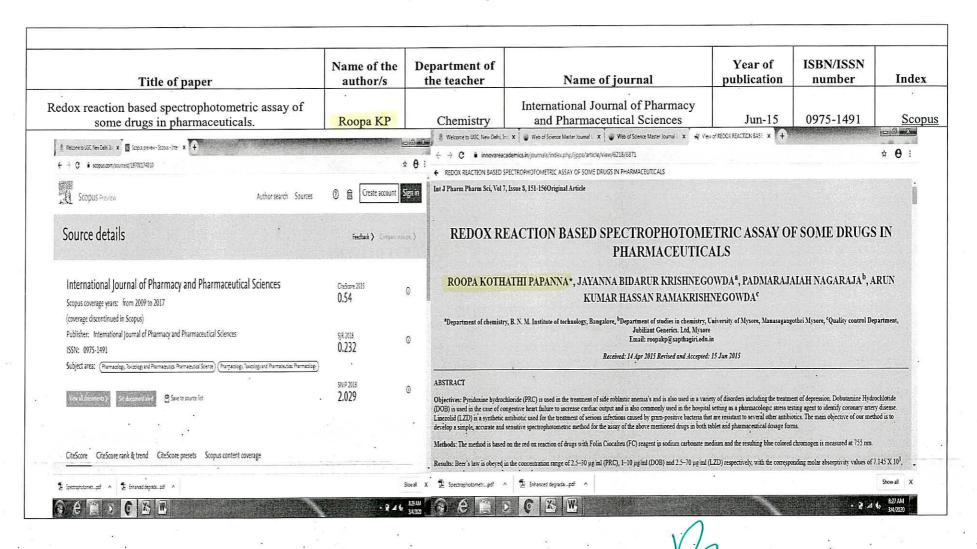
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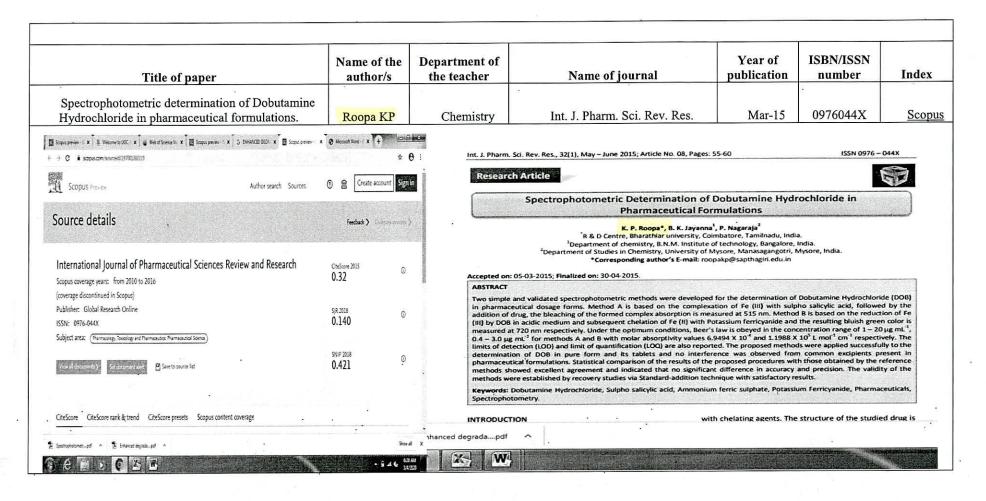
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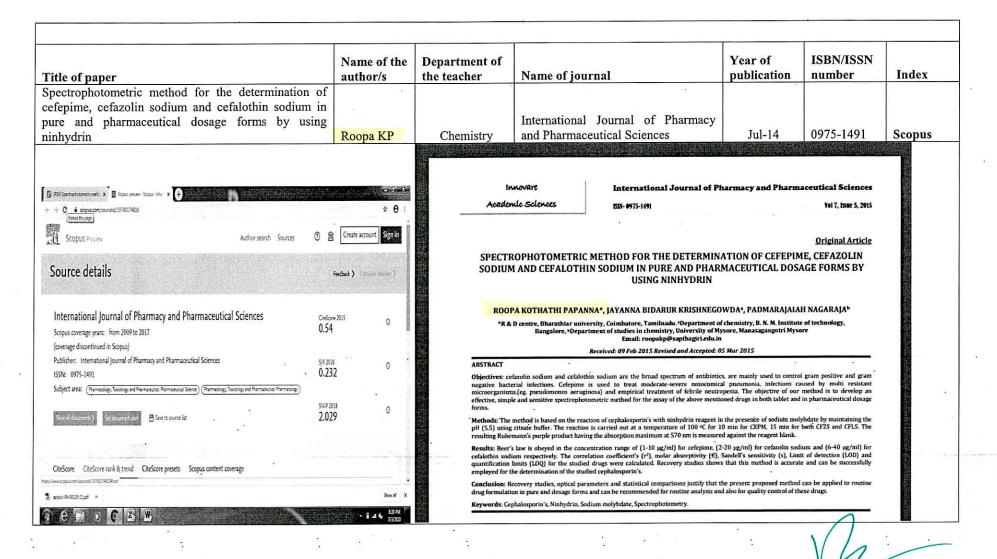
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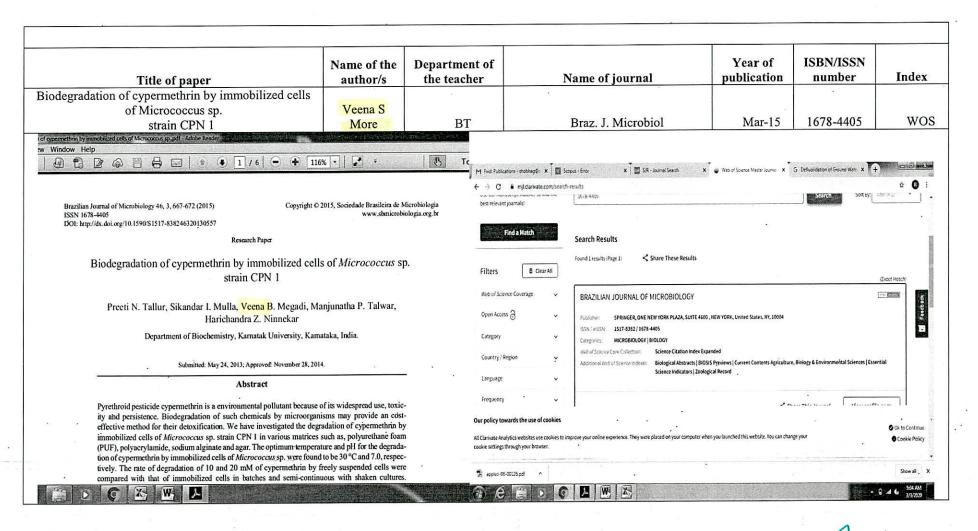
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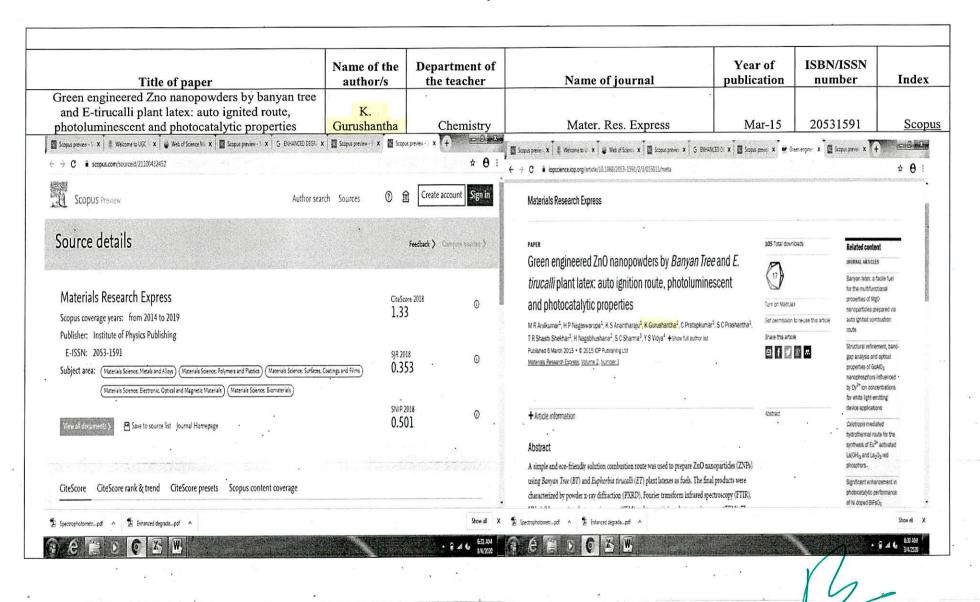


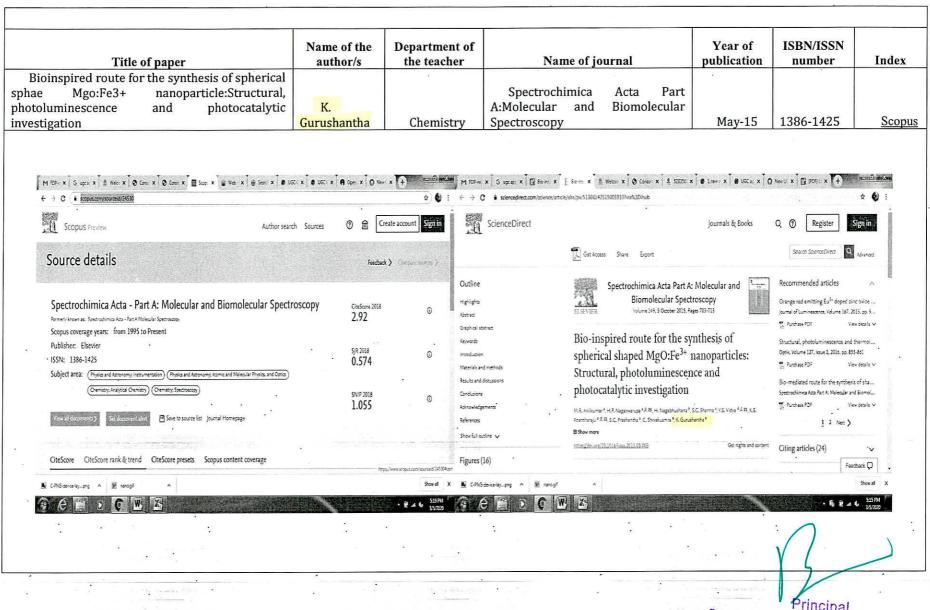


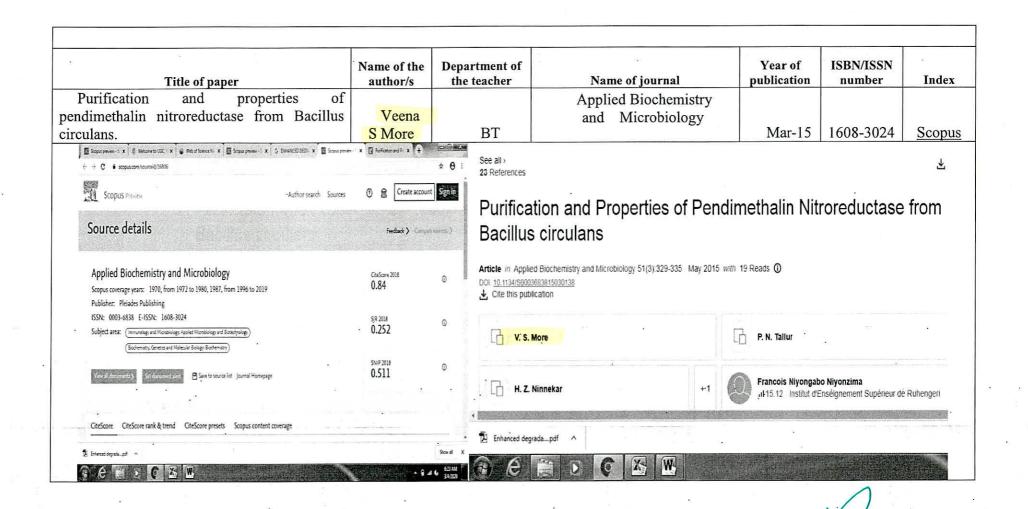


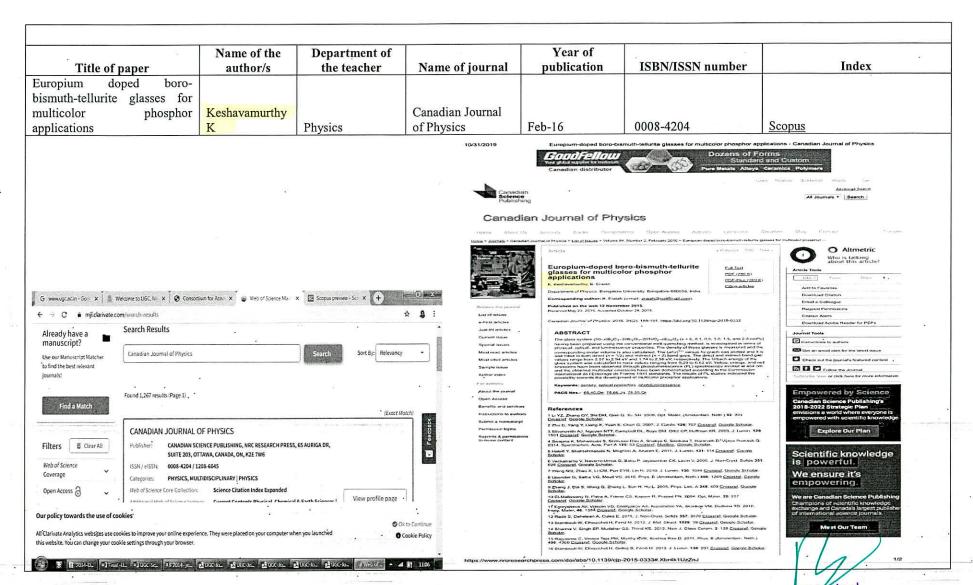
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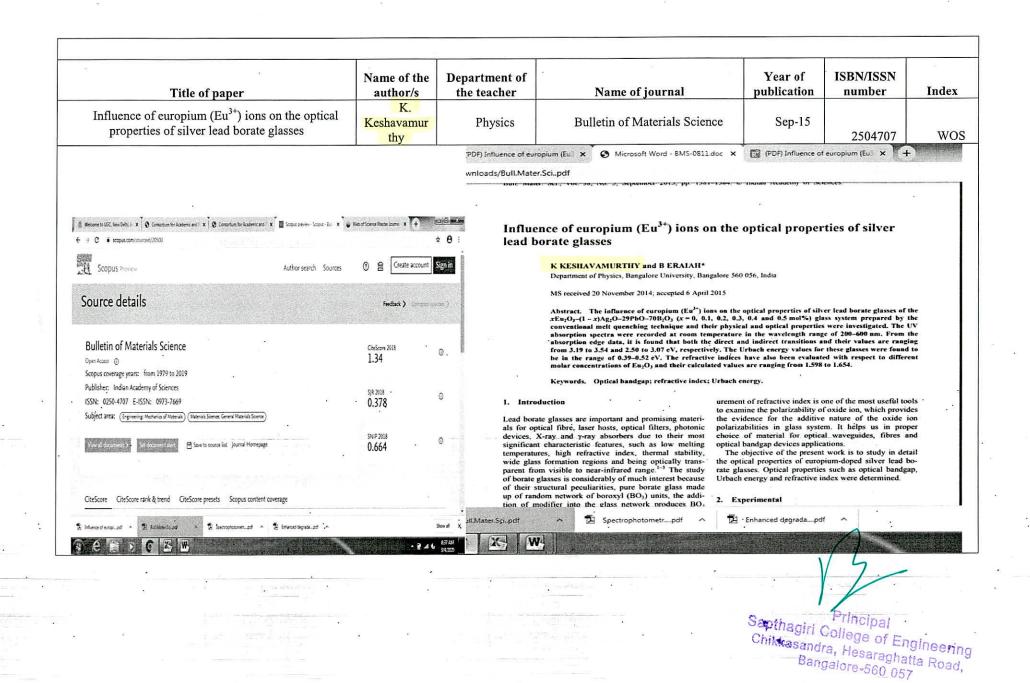


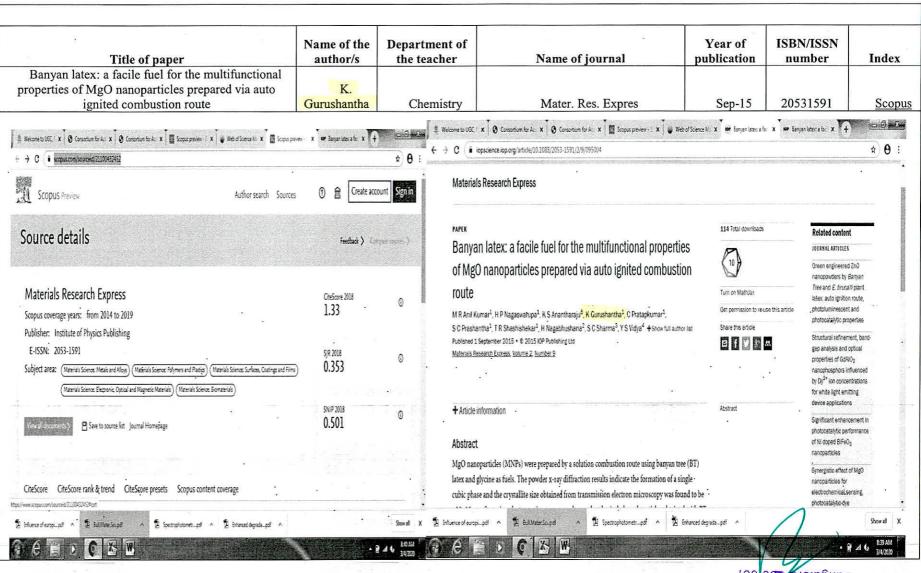












Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Index
Modelling solubility of phenolics of mango ginger						
extract in supercritical carbon dioxide using equation of	Krishna		Journal of Food Science and	Sep-15		
state and empirical models	Murthy TP	BT	Technology		00221155	Scopus

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J Food Sci Technol (September 2015) 52(9):5557-5567 DOI 10.1007/s13197-014-1667-1

#### ORIGINAL ARTICLE



### Modelling solubility of phenolics of mango ginger extract in supercritical carbon dioxide using equation of state and empirical models

Thirupathihalli Pandurangappa Krishna Murthy -Balaraman Manohar

Revised: 17 November 2014 / Accepted: 26 November 2014 / Published online: 11 December 2014 ⊕ Association of Food Scientists & Technologists (India) 2014

Abstract Solubility of phenolics of mango ginger extract in supercritical carbon dioxide was studied at 40-60 °C and 100-350 bar. Critical temperature, critical pressure and critical volume of caffeic acid, the principal component of the extract were calculated using group contribution methods and compared with the values obtained by CHEMDRAWS. Vapor precision of the properties was also found suitable to predict the solubility at different extraction conditions. Jouyaban et al. model showed very less deviation (2.25 %) for predicted solubility walues from the experiment.

Keywords Mango ginger · Salubility · Supercritical CO<sub>2</sub> · Equation of state · Empirical models

Electronic supplementary material. The online version of this article (doi:10.1007/s13197-014-1667-1) contains supplementary material, which is available to authorized users.

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B. Manohar Department of Food Engineering, CSIR-Central Food Technological

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#### Introduction

Curcuma amada Rook popularly known as mango ginger belongs to the family Zingiberneene. The plant is widely strengther than the control of the plant is widely the plant in the plant in widely the plant with the plant in the plant in widely with the plant in the preparation of culinary items such as pickles, sauces etc. in Indian subcontinent because of its exotic arona. Nearly, sixty-eight compounds were identified from the steam distilled volatile oil of the rhizome (Rao et al. 1989). In the Indian system medicine, Ayarveda, the plant is given importance as appetizer, a festierie, antityrerie, aphrodisica and laxative properties (CSIR Council of Scientific and Industrial Research 1950). The extract of rhizome exhibited antimicrobial, antifungal and anticliminic activity against tope worms ucids, volatile oils, curcuminoids and terpenoids like diffurocumenonoil, amadannulen and amadatdehyde (Policegodar et al. 2011). Many aspects of processing like drying (Krishna Murthy and Manohar 2013a), grinding (Krishna Murthy and Manohar 2014) of mango ginger for its bioactives on a commercial scale is not in practice and such extraction shall result in value-added products.

Supercritical carbon dioxide (SC-CQ<sub>2</sub>) is a highly promising solvent due to its relatively low critical temperature and pressure, high solvent power, high diffusivity, low viscosity and low surface tension. SC-CQ<sub>2</sub> has an added advantage of being non-toxic and non-flammable as compared to many serial 2013, SC-CQ<sub>2</sub> are be-removed und recovered from the extracts: after processing by simple condensation at room temperature. The extraction efficiency and selectivity can be

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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Index
Bee-inspired routing the ultimate routing process for	Dr. Sasmita	EC	International Journal of Applied	Sep-15		
energy efficient MANET	Mohapatra		Engineering Research	_	9734562	

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International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 18 (2015) pp 38855-38862 © Research India Publications. http://www.ripublication.com

## Bee-Inspired Routing the ultimate routing process for Energy Efficient

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Abstract
Mobile ad hoc network (MANET) is one of the most important and unique network in wireless setwork which has brought maximum mobility and scalability. High efficient routing is an important issue in the design of limited energy resource MANETs, in the last few decades many research routing protocols for MANETs. Nowadays the main area of concern is based on routing protocols utilizing the concept of swarm intelligence in which bee inspired routing and ant impired routing are suggested. But among these two Bee and scalable multipath routing protocol bodd on dynamic cluster and foraging behavior of a bee swarm. Here in this paper the advantages of Bee inspired routing have been discussed with respect to its architecture and working for choosing with the protocol based on dynamic cluster and foraging behavior of a bee swarm. Here in this paper the advantages of Bee inspired routing have been discussed with respect to its architecture and working for choosing different parameters of all the algorithms from the ant colony optimization and bee colony optimization for energy efficient MANETs where the performance of Bee-Adlitoc-C is found to be best.

Keywords— MANET; Energy Efficiency; Bee Inspired Protocols; Scouting; Foraging; Bee-AdHoc-C

INTRODUCTION

I. INTRODUCTION

MANIET is self-organizing, rapidly deployable which does not require any fixed infrastructure. Mobile nodes self-organize to form a network over radio links. The goal of MANIETs is to broaden mobility into the area of autonomous, mobile and wireless domains, where a set of nodes form the network routing infrastructure in an ad-hoc manner. The main characteristics of a MANIET are:

Packets may need to be forwarded by several nodes to reach the destination.

reach the destination.

Dynamic topology due to the nodes' mobility or nodes leaving/joining the network, which causes packet loss and route change.

Resource constrains: wireless medium bandwidth, device's battery, processing speed and memory.

As the nodes in the MANET are battery operated so there are possibilities that some of the nodes may fail for communication in between for which care has been taken to make the MANETs energy efficient. In this purp

intelligence concept is considered as one of the best way, Swarm intelligence (SI) is the collective behavior of decentralized, self-organized systems, natural or artificial. Ants, Bees, flock of birds or Termites show impressive collective problem-solving capabilities. Properties associated with their group behavior like self-organization, robustness and systems, control or task execution. Swarm Intelligence mainly consists on Particle Swarm Optimization (PSO), Ant Colony Optimization (ACO) and Honeybees paradigms. A swarm is defined as a set of (mobile) agents that collectively solve problems, in the nature animals form into swarms to search food, build nests, to hunt and avoid being lunted etc. Each food, build nests, to hunt and avoid being lunted etc. Each a limited amount of information via its immediate neighbors or individual of the swarm has simple rule of action and access to a limited amount of information via its immediate neighbors or local environment. Due to the nature, architecture, topology and functionality of ad hoc and wireless networks. Swarm latelligence approaches are most suitable for the routing and energy resources optimization related issues in MANETS. Bio inspired, Swarm Intelligence approaches are more promising for ad hoc and wireless Adl loc networks due to

Locality of interactions

Availability of multiple paths

Self-organizing behaviors

Failure backup.

topological and traffic changes and component

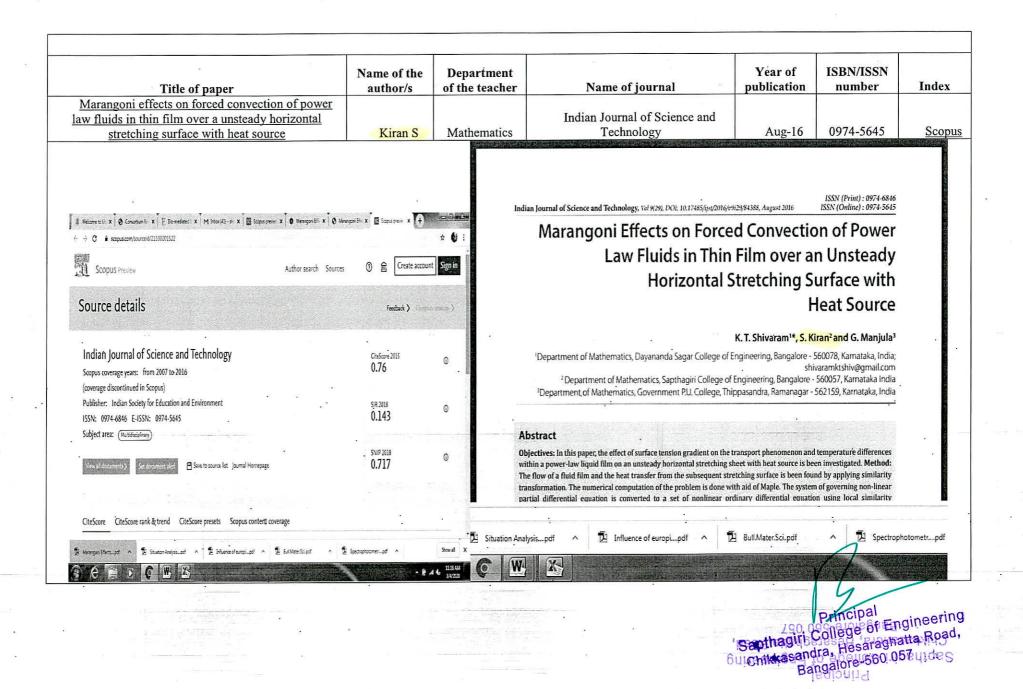
Scalable performance robustness to failures,

vii Losses internal to the protocol,

Easiness of design and tuning

In this paper we have discussed regarding different algorithms for ant colony and bee colony optimization required for energy efficient MANETs and have discussed the advantages of 'bee colony optimization with respect to its architecture and working principle for packet transfer between the nodes. Lastly we have done comparative analysis of different algorithms for ant and bee colony with respect to different parameters.

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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Index
nfluence of size and location of a thin baffle on natural convection heat transfer in a vertical annular enclosure	Pushpa B V	Mathematics	Journal of Applied Fluid Mechanics	Jan-16	17353572	Scopus

Journal of Applied Fluid Mechanics, Vol. 9, No. 6, pp. 2671-2684, 2016. Available online at <a href="www.jafmonline.net">www.jafmonline.net</a>, ISSN 1735-3572, EISSN 1735-3645.



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### Influence of Size and Location of a Thin Baffle on Natural Convection in a Vertical Annular Enclosure

M. Sankar 17, B. V. Pushpa2, B. M. R. Prasanna5 and Y. Do4

Department of Mathematics, School of Engineering, Presidency University, Bangalore, India Department of Mathematics, Sapithagirt college of Engineering, Bangalore, India Department of Mathematics, Siddaganga Institute of Technology, Tumkur, India Department of Mathematics, KNU-Center for Nonlinear Dynamics, Kyungpook Nutional University, Daegu, South Korea

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#### ABSTRACT

This article reports the numerical study of natural convection in a differentially heated cylindrical annular enclosure with a thin baffle attached to inner wall. The inner and outer walls of the annulus are respectively maintained at higher and lower temperatures, whereas the top and bottom walls are thermally insulated. Using an implicit finite difference technique, the effects of baffle size and location on natural convection has been investigated for different Rayleigh numbers and radius ratios by fixing the movement of the detailed numerical simulations, we have for the size and the detailed numerical simulations, we have ference in the size and the size and location of baffle size and the size and the size and location of baffle size and the size and location of baffle size and the size and location of baffle in the size and location of baffle in the size and location are size of the size and size of the size and location of baffle position; but decreases with baffle length. Further, it has been observed that it is possible to enhance or suppress the flow circulation and heat transfer rates by a proper choice of baffle size and location, and Rayleigh number.

Keywords: Convection; Baffle; Annulus; Finite difference method.

### NOMENCLATURE

			¥				
4	aspect ratio	(r. r.)	radius of inner and outer cylinders				
D	width of the annulus	(r, z)	dimensional radial and axial co-				
g	acceleration due to gravity		ordinates				
H	height of the annulus	(R. Z)	dimensionless radial and axial co-				
fi.	dimensional position of baffle	2	ordinates				
	thermal conductivity	(u, w)	dimensional velocity in $(r, z)$				
1	dimensional length of baffle	27.2	directions				
Z.	dimensionless position of baffle						
200	[ 100 H H H H H H H H H H H H H H H H H H		thermal diffusivity				
NuL	local Nussell humber at limer wan	ß	volume expansion coefficient				
Nug	local Nusselt number at outer wall	ß	dimensionless length of baffle				
	poem reduser memoer ar outer war.	r	dimensionless vorticity				
Nu	average Nusselt number	õ	dimensional temperature				
P	fluid pressure	3	radius ratio				
Pr	Prandtl number	Ü	kinematic viscosity				
Ra	Rayleigh number	3555	fluid density				
T	dimensionless temperature	P	dimensionless stream function				
	dimensional time	v	dimensionless stream function				
	dimensionless time						
(U. B)	dimensionless velocity in (R, Z) directions	Subscripts c cold wall					
		c .					
			hot svall				

