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**3.3.2 Number of research papers per teachers in the Journals notified on UGC website  
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**Session: 2020-21**

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It is certified that the following papers/articles are published in UGC CARE LIST of Journals (UGC Care Group I & II, Scopus, Web of Science, UGC Approved (Old) List of (Cancelled) Journals).

S. o.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
1.	Phytochemical and antioxidant profiling of Ocimum sanctum	Abha Chaudhary	Chemistry	Journal of Food Science and Technology International	2020	0975-8402 Print ISSN 0022-1155	Scopus
2.	Effect of fungal pretreatment on Solanum nigrum L. leaves biomass aimed at the bioadsorption of heavy metals	Anju Tanwar	Botany	Indian Journal of Traditional Knowledge	2020	0975-1068 (Online); 0972-5938 (Print)	Scopus, Web of Science
3.	An empirical study of HRM practices in Private Sector Banks	Shagun Ahuja	Commerce	Dogo Rangsang Research Journal	2020	2347-7180	<a href="https://ugccare.unipun.e.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101024265&amp;flag=Search">https://ugccare.unipun.e.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101024265&amp;flag=Search</a>
4.	Nation and Migration in Transnational Diasporic Cinema: A Critical Review of the Films of Mira Nair and Deepa Mehta	Barjinder Singh	English	Shodh Sarita	2020	2348-2397	<a href="https://ugccare.unipun.e.ac.in/Apps1/User/WebA/SearchList">https://ugccare.unipun.e.ac.in/Apps1/User/WebA/SearchList</a>
5.	Role of CSAT in Web Marketing	Naib Singh	Commerce	GIS Science Journal	2020	1869-9391	Scopus
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7.	Assessing Financial Soundness of Commercial Banks using Altman's Z-Score: A comparison of Public Sector Banks and Private Sector Banks in India	Parmil Kumar	Commerce	Turkish Online Journal of Qualitative Inquiry	2020	1309-6591	Scopus

8.	Nano–bio surface interactions, cellular internalisation in cancer cells and e-data portals of nanomaterials: A review	Abha Chaudhary	Chemistry	IET Nanobiotechnology	2021	(Online) 1751-875X	Web of Science, Scopus
9.	Analysis and numerical simulation of fractional Biswas-Milovic Model	Hardish Kaur	Mathematics	Mathematics and Computers in Simulation	2021	3784754	Scopus
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11.	Role of Quality circles in New Business Scenario with special reference to the Service Sector	Shagun Ahuja	Commerce	Purva Mimaansa	2021	0976-0237	UGC Approved (old) List of Journals(40903)
12.	Relative Financial Soundness of Indian Commercial Banks using Altman's Z-Score and Bankometer Model	Parmil Kumar	Commerce	Oeconomia Copernicana	2021	2083-1277	Scopus
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14.	Energy loss straggling of energetic ions in varying thicknesses of Titanium foils	Sunil Kumar	Physics	Vacuum	2021	0042-207X	Web of Science, Scopus
15.	Energy loss straggling and subsequent higher order parameters in silver metallic foils	Sunil Kumar	Physics	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms	2021	0168-583X	Web of Science, Scopus

  
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1.	Phytochemical and antioxidant profiling of Ocimum sanctum	Abha Chaudhary	Chemistry	Journal of Food Science and Technology International	2020	0975-8402 Print ISSN 0022-1155	<a href="https://www.springer.com/journal/13197">https://www.springer.com/journal/13197</a>	<a href="https://pubmed.ncbi.nlm.nih.gov/32903995">https://pubmed.ncbi.nlm.nih.gov/32903995</a>	Scopus
2.	Effect of fungal pretreatment on Solanum nigrum L. leaves biomass aimed at the bioadsorption of heavy metals	Anju Tanwar	Botany	Indian Journal of Traditional Knowledge	2020	0975-1068 (Online); 0972-5938 (Print)	<a href="http://nopr.niscair.res.in/handle/123456789/55809">http://nopr.niscair.res.in/handle/123456789/55809</a>	<a href="http://nopr.niscair.res.in/handle/123456789/55820">http://nopr.niscair.res.in/handle/123456789/55820</a>	Scopus, Web of Science
3.	An empirical study of HRM practices in Private Sector Banks	Shagun Ahuja	Commerce	Dogo Rangsan Research Journal	2020	2347-7180			<a href="https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101024265&amp;flag=Search">https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101024265&amp;flag=Search</a>
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8.	Nano-bio surface interactions, cellular internalisation in cancer cells and e-data portals of nanomaterials: A review	Abha Chaudhary	Chemistry	IET Nanotechnology	2021	(Online) 1751-875X	<a href="https://ietresearch.onlinelibrary.wiley.com/journal/1751875X">https://ietresearch.onlinelibrary.wiley.com/journal/1751875X</a>	<a href="https://ietresearch.onlinelibrary.wiley.com/doi/10.1049/nbt2.12040">https://ietresearch.onlinelibrary.wiley.com/doi/10.1049/nbt2.12040</a>	Web of Science, Scopus









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1. <b>Phytochemical and antioxidant profiling of Ocimum sanctum</b>	<b>Abha Chau dhary</b>	<b>Chemistry</b>	<b>Journal of Food Science and Technology International</b>	20220	0975-8402 Print ISSN 0022-1155	<a href="https://www.springer.com/journal/13197">https://www.springer.com/journal/13197</a>	<a href="https://pubmed.ncbi.nlm.nih.gov/32903995">https://pubmed.ncbi.nlm.nih.gov/32903995</a>	<b>Scopus</b>
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> J Food Sci Technol. 2020 Oct;57(10):3852-3863. doi: 10.1007/s13197-020-04417-2.  
Epub 2020 Apr 11.

# Phytochemical and antioxidant profiling of *Ocimum sanctum*

Abha Chaudhary<sup>1</sup>, Sanjay Sharma<sup>1</sup>, Ashwani Mittal<sup>1</sup>, Sanjeev Gupta<sup>1</sup>, Anita Dua<sup>1</sup>

Affiliations – collapse

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PMID: 32903995 PMCID: PMC7447722 DOI: 10.1007/s13197-020-04417-2

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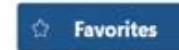
## Abstract

The leaves of *Ocimum sanctum* were extracted in methanol (OsM) and sequentially fractionated with n-hexane (OsH), ethylacetate (OsE) and butanol (OsB) to find the best extraction solvent for antioxidants from the herb known for its medicinal values. OsB was rich in both total polyphenolic content (TPC) (212.26 ± 6.3 mg GAE/g extract) and total flavonoid contents (TEC) (54.51 ± 3.5 mg

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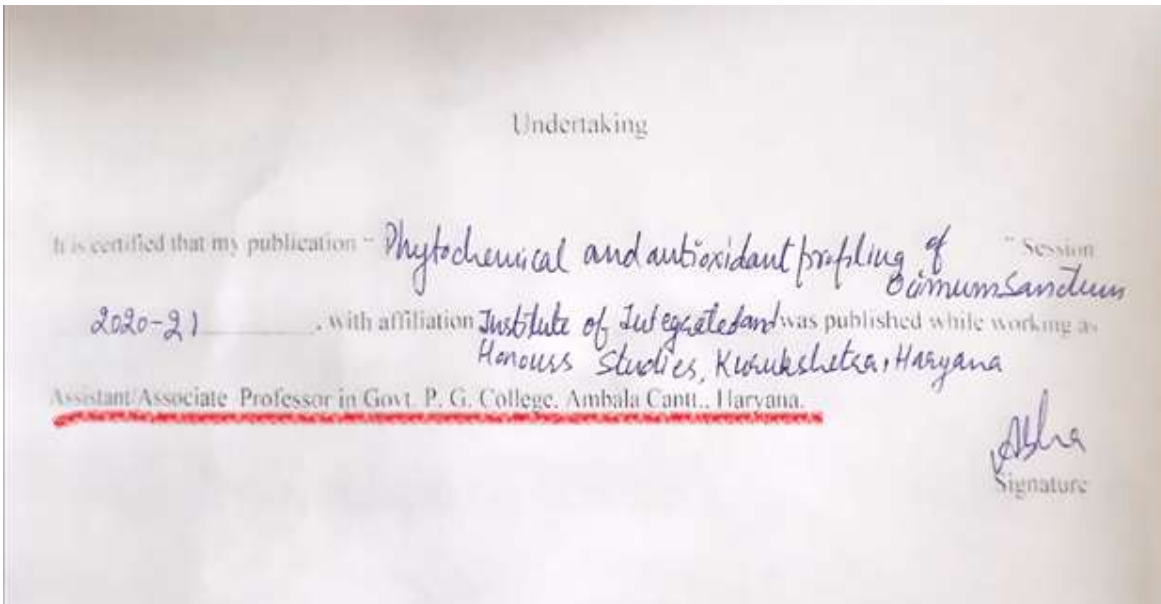


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### Undertaking

It is certified that my publication - *Phytochemical and antioxidant profiling of Ocimum sanctum* - Session 2020-21, with affiliation *Institute of Integrated and Honours Studies, Kurukshetra, Haryana* was published while working as Assistant/Associate Professor in Govt. P. G. College, Ambala Cantt., Haryana.

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2. <b>Effect of fungal pretreatment on Solanum nigrum L. leaves biomass aimed at the bioadsorption of heavy metals</b>	<b>An ju Ta nwa r</b>	<b>B o t a n y</b>	<b>Indian Journal of Traditiona l Knowledg e</b>	<b>2 0 2 0</b> 0975- 1068 (Online); 0972- 5938 (Print)	<b>http://nopr.n iscair.res.in/ handle/1234 56789/55809</b>	<b>Scopus, Web of Science</b>
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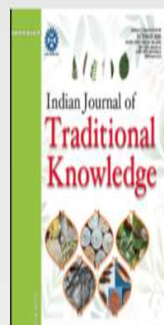
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Title: Effect of fungal pretreatment on *Solanum nigrum* L. leaves biomass aimed at the bioadsorption of heavy metals

Authors: Chauhan, J  
Yadav, V K  
Saini, I  
Jha, R K  
Tanwar, A  
Kaushik, P

Keywords: Biosorbent;Biosorption;Conventional methods;Environmental pollution;Heavy metal ions;Solanum nigrum L.

Issue Date: Oct-2020

Publisher: NISCAIR-CSIR, India

IPC Code: Int. Cl.<sup>20</sup>: A61K 9/00, C02F 1/28, G01R 21/02, B01D 53/86, C23G 1/32

Abstract: Environmental degradation due to water pollution, air pollution and soil pollution has a detrimental effect and create ecological imbalance. These factors are also responsible for the large scale introduction of heavy metal ions into the environment. Conventional treatment methods for the removal of heavy metal ions are not so advantageous as these are highly expensive and also produces toxicant. Keeping this view in the mind, the present study was framed to determine the biosorption of heavy metal ions using *Solanum nigrum* L. leaf biomass alone and also with *Aspergillus oryzae* treated *Solanum nigrum* L. leaf biomass.



Indian Journal of Traditional Knowledge  
Vol 19(4), October 2020, pp 832-838



## Effect of fungal pretreatment on *Solanum nigrum* L. leaves biomass aimed at the bioadsorption of heavy metals

J Chauhan<sup>a,§</sup>, V K Yadav<sup>b,§</sup>, I Saini<sup>a</sup>, R K Jha<sup>b</sup>, A Tanwar<sup>a</sup> & P Kaushik<sup>d,\*</sup>

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Environmental degradation due to water pollution, air pollution and soil pollution has a detrimental effect and create ecological imbalance. These factors are also responsible for the large scale introduction of heavy metal ions into the environment. Conventional treatment methods for the removal of heavy metal ions are not so advantageous as these are highly expensive and also produces toxicant. Keeping this view in the mind, the present study was framed to determine the biosorption of heavy metal ions using *Solanum nigrum* L. leaf biomass alone and also with *Aspergillus oryzae* treated *S. nigrum* leaf biomass. *Solanum nigrum* L. leaf biomass was used as biosorbent for the biosorption of cobalt, copper, iron, lead and zinc. Unaided *S. nigrum* leaf biomass was the better absorbant of lead (Pb) whereas when inoculated with *A. oryzae* cobalt (Co) was more biosorbed than any other heavy metal. Overall, the results of the present study propose that the traditional plant *S. nigrum* could be used for the bioadsorption of heavy metals.

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**Dogo Rangsang Research Journal** **UGC Care Group I Journal**  
**ISSN : 2347-7180** **Vol-10 Issue-07 No. 17 July 2020**

**An empirical study of HRM Practices in Private Sector Banks**

**Manisha Devi\* Dr. Parul Khanna\*\* Dr. Shagun Ahuja\*\*\***

\*Research Scholar, Management Department, I.K. Gujral Punjab Technical University, Jalandhar (Kapurthala), [Manishakti8228@gmail.com](mailto:Manishakti8228@gmail.com), Mob-7015088972.

\*\*Associate Professor, Management Department, Rayat Bahra Institute of Management, Hoshiarpur.

\*\*\*Associate Professor, Commerce Department, Govt. PG College, Ambala Cantt.

**Abstract-** In today the organization are facing emerging competition and challenges in the form of procurement and development of Human resource capital. The success of an organization is depends on numerous factors but the key factor that can affect the performance is its human resource. By the effective management of human resources, an organization can achieve its objectives. The main purpose of this paper is to study the Human Resource Practices in Private



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**NATION AND MIGRATION IN TRANSNATIONAL DIASPORIC CINEMA :  
A CRITICAL REVIEW OF THE FILMS OF  
MIRA NAIR AND DEEPA MEHTA** □ Barjinder Singh\*

**ABSTRACT**

The present paper attempts to study the two central categories of diasporic discourse, i.e., nation and migration, as represented in the selected diasporic films of Mira Nair and Deepa Mehta. The study of diasporic cinema involves a unique interface between History, Geography, Politics and Film Studies. The major concerns of the Indian diasporic cinema involve the depiction of the identity crisis or alienation, the issues of assimilation or cultural assertion, resulting out of the forced or voluntary migration. Mira Nair effectively portrays these concerns in her films like *Salaam Bombay*, *Mississippi Masala*, *The Namesake*, and *The Reluctant Fundamentalist*. Similarly Deepa Mehta touches various themes of gender exploitation, migration, colonialism, and Identity in her movies like *Fire*, *Water*, and *1947: Earth*.

**Keywords:** Nation, migration, postcolonialism, identity, diaspora, accented cinema

**Introduction**

The term 'diaspora' has its origin in the Greek word "diaspeirein." "Dia" means 'across' and "speiren" means 'scatter,' thus the etymological meaning of the term appropriates to 'dispersal.' Balasubramanyam Chandramohan in *The Encyclopedia of Postcolonial Studies* opines that the, "original use of the term by the Greeks connotes a triumphalist migration/ colonization" (45). The term diaspora was previously reserved for the dispersal and dislocation of the Jews from their homeland. Jana Evans Braziel and Anita Mannur throw light on the term diaspora:

First used in the Septuagint, the Greek translation of the Hebrew scriptures explicitly intended for the Hellenic Jewish communities in Alexandria (Circa 3<sup>rd</sup> century BCE) to describe the Jews living in exile from the homeland of Palestine...Another early historical reference is the Black diaspora, beginning in the sixteenth century with the slave trade, forcibly exporting West African out of their Native lands and dispersing them into the 'New World'-parts of North America, South America, the Carribean and elsewhere. (1)

Diaspora could be voluntary or forcible; the former could be in search of the better career or life opportunities, the latter could be due to the forces of colonialism, human rights violation, racial or ethnic conflicts, and so on. The twentieth century has witnessed large scale migration and dislocation. Edward Said in his book *Culture and Imperialism* assigns it as "one of the unhappiest characteristics of the age to have produced more refugees, migrants, displaced persons, and exiles than ever before in history, most of them as an accompaniment to and, ironically enough, as afterthoughts of great post-colonial and imperial conflicts" (332).

**Cinematic Formations of Indian Diaspora**

Diasporic cinema is increasingly marked by the forces of globalised economy, especially the rise of transnational media or free distribution of films across the globe. Nowadays, the diasporic literature and film are increasingly being popular as well as receiving critical acclaim throughout the world. The term diasporic cinema is used to denote the filmic productions that deal with the issues and concerns of diaspora or migration of people or

\*Assistant Professor of English, Government Post Graduate College Ambala Cantt.

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## ROLE OF CSAT IN WEB MARKETING

**By:**

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**Sohan Lal**  
Assistant Professor  
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### Abstract

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## **COVID-19 is not only a Health Crisis but the Pandemic is going to be a Financial Challenge: An Impact Assessment on the Commercial Banking Sector in India**

**Parmil Kumar<sup>1</sup> and Dr. Anupam Sharma<sup>2</sup>**

<sup>1</sup>Research Scholar, Dept. of Management Studies, M.M.U. Sadopur & Associate Professor, Commerce, Govt. PG College Ambala Cantt, India.

<sup>2</sup>Associate Professor, Dept. of Management Studies, M.M.U. Sadopur, India.

<sup>1</sup>parmilkumar2512@gmail.com, <sup>2</sup>sharmaanupam4.org@gmail.com

**Abstract:** In India, the pandemic of COVID-19 is not only a health crisis but the pandemic and current lockdown are going to be a financial challenge, as it is going to badly affect the entire financial system including the commercial banks of the country. Worst affected will be the public sector banks which were already grappled with the high level of NPAs and low profitability. The majority of these banks have been reporting negative profits in the last some years due to provisioning out of the profits for the high level of NPAs in these banks. Although public sector banks have been remained a major contributor to the development efforts of the country or can be simply said as the backbone of the Indian financial system. Now a day despite having comparative high efficiency in intermediation cost as well as high business per employee, these banks failed to generate adequate profits, which are a must for survival and existence of

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# Assessing Financial Soundness of Commercial Banks using Altman's Z-Score: A Comparison of Public Sector Banks and Private Sector Banks in India

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Prof. Parmil Kumar, Dr. Anupam Sharma

## Abstract

In emerging economies like India, the issue of the financial health of banking institutions has become more important since the deregulation of the banking industry and increased competition, especially due to increased stressed assets in the banking institutions in the last some years. In India,

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**Assessing Financial Soundness of Commercial Banks using Altman's Z-Score: A  
Comparison of Public Sector Banks and Private Sector Banks in India**

**Prof. Parmil Kumar<sup>1</sup>**

**Prof. (Dr.) Anupam Sharma<sup>2</sup>**

<sup>1</sup>Research Scholar, Dept. of Management Studies, M.M.U. Sadopur, Ambala & Associate Professor  
Commerce, Govt. PG College Ambala Cantt. Ph.9050911431 E-mail: [parmilkumar2512@gmail.com](mailto:parmilkumar2512@gmail.com)

<sup>2</sup> Associate Professor, Dept. of Management Studies, M.M.U. Sadopur, Ambala

**ABSTRACT:** In emerging economies like India, the issue of the financial health of banking institutions has become more important since the deregulation of the banking industry and increased competition, especially due to increased stressed assets in the banking institutions in the last some years. In India, during the boom years, a large amount of easy credit was made available to the corporates, which resulted in the dual problem of the leveraged corporate balance sheet as well as the stressed assets in the banking system. The large build-up of sub-standard assets worsening the profitability and resulting in the loss of capital of these banks. The present research aims to assess the financial soundness of commercial banks in India from 2014-15 to 2018-19. It examines and compares Altman's Z-score of the public sector banks and private sector banks in India. The study is based on the financial data of 39 commercial banks comprising 20 public sector banks and 19 private sector banks, uses parametric as well as non-parametric techniques to analyse and compare the financial soundness of public sector banks and private sector banks.

**Key Words:** Altman's Z-Score, Public Sector Banks, Private Sector Banks, Commercial Banks, Financial Soundness



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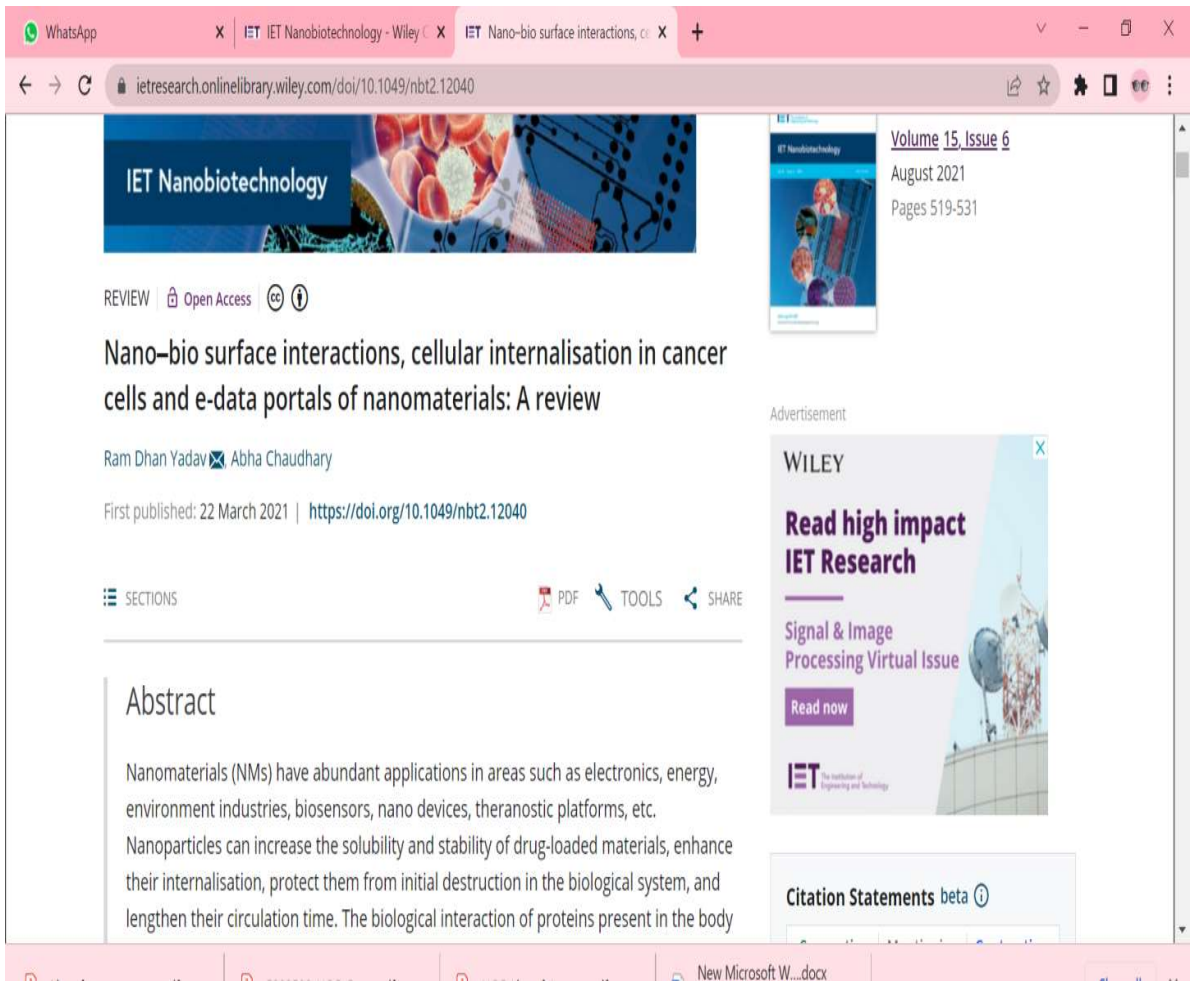
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**REVIEW**

# Nano-bio surface interactions, cellular internalisation in cancer cells and e-data portals of nanomaterials: A review

Ram Dhan Yadav<sup>1</sup> | Abha Chaudhary<sup>2</sup>

<sup>1</sup>Department of Biochemistry, Panjab University, Chandigarh, India

<sup>2</sup>Department of Chemistry, Government Post Graduate College, Ambala Cantt, Haryana, India

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**Funding information**

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**Abstract**

Nanomaterials (NMs) have abundant applications in areas such as electronics, energy, environment industries, biosensors, nano devices, theranostic platforms, etc. Nanoparticles can increase the solubility and stability of drug-loaded materials, enhance their internalisation, protect them from initial destruction in the biological system, and lengthen their circulation time. The biological interaction of proteins present in the body fluid with NMs can change the activity and natural surface properties of NMs. The size and charge of NMs, properties of the coated and uncoated NMs, nature of proteins, cellular interactions direct their internalisation pathway in the cellular system. Thus, the present review emphasises the impact of coated, uncoated NMs, size and charge, nature of proteins on nano-bio surface interactions and on internalisation with specific focus on cancer cells. The increased activity of NPs may also result in toxicity on health and environment, thus emphasis should be given

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# Analysis and numerical simulation of fractional Biswas–Milovic model

Amit Prakash , Hardish Kaur 

Department of Mathematics, National Institute of Technology, Kurukshetra- 136119, India

Received 11 April 2020, Revised 12 August 2020, Accepted 19 September 2020, Available online 28 September 2020, Version of Record 10 October 2020.



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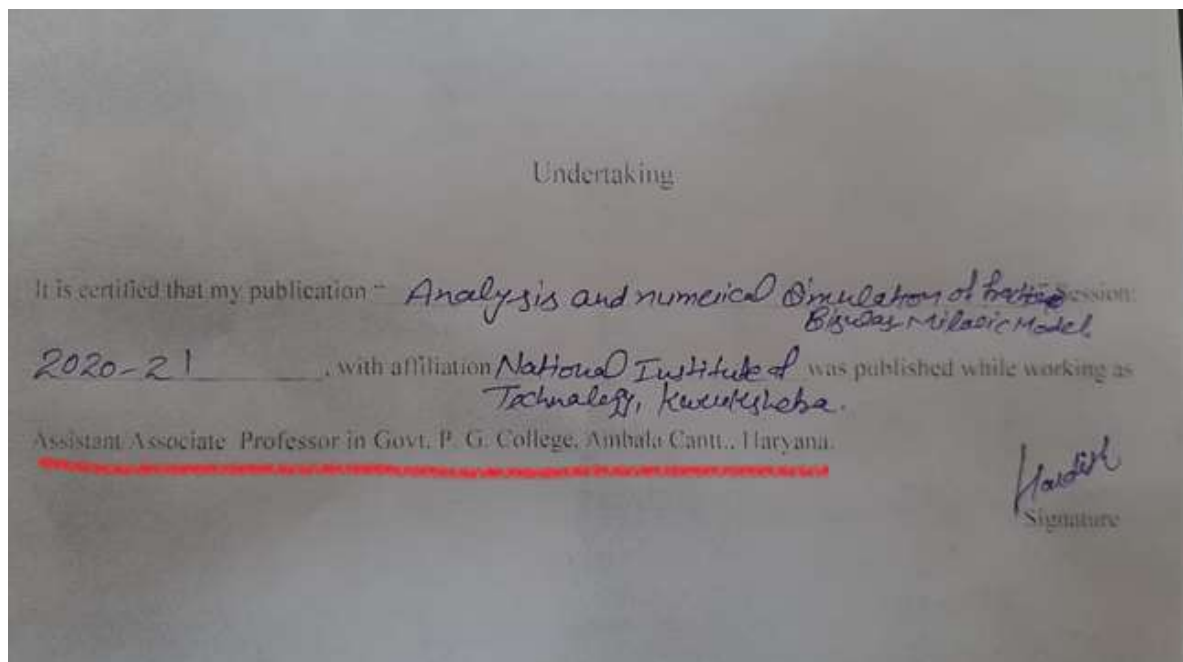
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## Highlights

- The compilation of fractional complex transform with homotopy perturbation approach is suggested.
- The fractional Biswas–Milovic model having Kerr and parabolic law nonlinearities is



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## Abstract

Long short term memory (LSTM) is a powerful model in building of an ASR system whereas standard recurrent networks are generally inefficient to obtain better

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# Enhancing accuracy of long contextual dependencies for Punjabi speech recognition system using deep LSTM

Virender Kadyan<sup>1</sup> · Mohit Dua<sup>2</sup> · Poonam Dhiman<sup>3</sup>

Received: 7 December 2019 / Accepted: 15 January 2021

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## Abstract

Long short term memory (LSTM) is a powerful model in building of an ASR system whereas standard recurrent networks are generally inefficient to obtain better performance. Although these issues are addressed in LSTM neural network architecture but their performance get degraded on long contextual information. Recent experiments show that LSTM and their improved approaches like Deep LSTM requires a lot of tuning in training and experiences. In this paper Deep LSTM models are built on long contextual sentences by selecting optimal value of batch size, layer, and activation functions. It also indulge comparative study of train and test perplexity through computation of word error rate. Furthermore, we use hybrid discriminative approaches with different variants of iterations which shows significant improvement with Deep LSTM networks. Experiments are mainly perform on single sentences or one to two concatenated sentences. Deep LSTM achieves performance improvement of 3–4% over conventional Language Models (LMs) and modelling classifier approaches with acceptable word error rate on top of state-of-the-art Punjabi speech recognition system.

**Keywords** Discriminative models · Maximum mutual information (MMI) · Boosted MMI · Minimum phone error · Long short term memory · Deep LSTM

## 1 Introduction

Speech in any language is a complex time varying signal over different time scales. Recurrent Neural Network with features of back and forth connections is found to be propitious for training of such signal data sequences and act as a robust tool than conventional neural network approaches (Sak et al. 2014). Substantial word error rate decrement is noted based on computation and quantity of data in acoustic modeling and language modeling unit, under various speech recognition systems (Kipyatkova and Karpov 2015; Zeyer et al. 2017). Earlier approaches such as Maximum likelihood Estimation methods have crouched performance

recognition due to prior stipulation of language model, training corpus, and incorporated with fixed length observation frames (Gillick et al. 2012). Acoustic modelling flourished state-of-the-art DNN also floundered to perform better due to circumspection of fixed length window frames. To address such issues of modeling classifier, discriminative training approaches such as Maximum Mutual Information (MMI), Minimum Phone Error (MPE) and boosted Maximum Mutual Information have been adopted by researchers (Bahl et al. 1986; Woodland and Povey 2000, 2002). In our previous study, (Kadyan et al. 2019) which is implemented on connected and continuous Punjabi speech recognition, it has been analyzed that GMM-HMM, DNN-HMM system are only able to train simple sentences on medium vocabulary. The weakness of temporal modelling is only fixed in acoustic modelling classifier approaches using fixed sized window of an extracted feature vectors (Hochreiter and Schmidhuber 1997). The data driven modelling approach is mostly depends on the efficiency of model estimation and the system performance is highly influenced by underlying modelling techniques (Dua et al. 2018). Similarly, as most of the speech recognition systems are able to perform better on simple sentences (Graves et al. 2013a, b) but their

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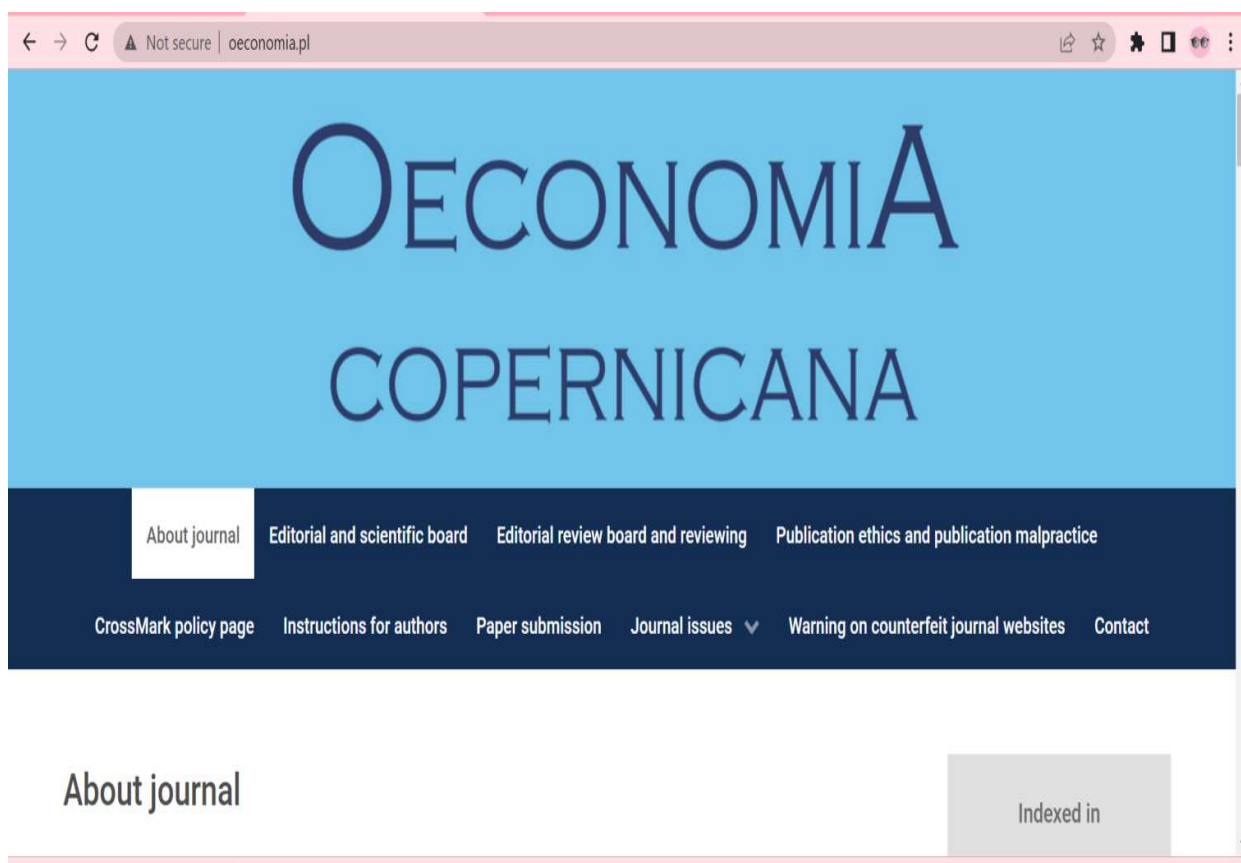
Assistant Professor of Commerce, Sanatan Dharma College, Ambala Cantt

### ABSTRACT

Quality circle is one of the most popular approaches used for solving the problems. This approach uses the efforts of teams for problem solving. The teams in quality circles work autonomously. The most significant factor under Quality circles is that members are able to enhance their creativity as various intellectual minds interact with each other for the purpose of solving the organizational problems. Personnel get the opportunity for performing the tasks which is not similar to their routine jobs. This enhances their confidence level and keep them satisfy on their jobs. The teams under quality circles are led by their superior or any senior in the organization, who gives direction to their discussion and help them to reach at the solution to the problem. This senior most member of the quality circle has the major responsibility for making the efforts of the other members successful. In this process he should have positive attitude towards the members and should encourage team spirit for successfully achieving the objectives of the quality circle.

**Key Words:** *Quality, team spirit, job satisfaction*

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**RELATIVE FINANCIAL SOUNDNESS OF INDIAN COMMERCIAL BANKS  
USING ALTMAN'S Z-SCORE AND BANKOMETER MODEL**

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Scholar, Dept. of Management Studies, M.M.U. Sadopur, Ambala, Haryana  
(India), E-mail: [parmikumar2512@gmail.com](mailto:parmikumar2512@gmail.com)

**Prof. (Dr.) Anupam Sharma**

Associate Professor, Dept. of Management Studies, M.M.U. Sadopur,  
Ambala, Haryana

**Abstract:**

Present research aims to assess and compare the financial soundness of the public sector banks and private sector banks using Altman's Z-score and Bankmeter's S-score in India from 2014-15 to 2018-19. The present study is based on the financial data of 39 commercial banks comprising 20 public





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<p><b>13. Ownership does matter in the Financial performance of a banking Undertaking: evidence from the Comparative financial performance of public sector banks and private Sector banks in India</b></p>	<p>Parmil Kumar</p>	<p>Commerce</p>	<p>International Journal of Management</p>	<p>2021</p>	<p>0976-6502</p>	<p><a href="https://iaeme.com/Home/journal/IJM">https://iaeme.com/Home/journal/IJM</a></p>	<p><a href="https://iaeme.com/MasterAdmin/Journal_uploads/IJM/VOLUME_11_ISSUE_12/IJM_11_12_256.pdf">https://iaeme.com/MasterAdmin/Journal_uploads/IJM/VOLUME_11_ISSUE_12/IJM_11_12_256.pdf</a></p>	<p><a href="#">Scopus</a></p>
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ISSN Print: 0976-6502 and ISSN Online: 0976-6510

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## **OWNERSHIP DOES MATTER IN THE FINANCIAL PERFORMANCE OF A BANKING UNDERTAKING: EVIDENCE FROM THE COMPARATIVE FINANCIAL PERFORMANCE OF PUBLIC SECTOR BANKS AND PRIVATE SECTOR BANKS IN INDIA**

**Parmil Kumar**

Research Scholar, Dept. of Management Studies, M.M.U. Sadopur & Associate Professor,  
Commerce, Govt. PG College Ambala Cantt, India

**Dr. Anupam Sharma**

Associate Professor, Dept. of Management Studies, M.M.U. Sadopur, India

### **ABSTRACT**

*A sharp focus is a must on the financial health of the banking institutions, any lapse in management of banks, not only shakes the trust of citizens but also threatens the entire financial system of the country. The present study uses a set of parametric and non-parametric techniques for analyzing and comparing the financial performance of the public sector banks (PSBs) and the private sector banks (PrSBs) in India from 2009-10 to 2018-19.*

*In India, during the economic boom period, a large number of business projects had been financed or re-financed by the commercial banks, especially by the public sector*



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## Energy loss straggling of energetic ions in varying thicknesses of Titanium foils

Sunil Kumar<sup>a</sup>, Sonia Rani<sup>a</sup>, Piyush Sharma<sup>a,b</sup>, Urmila Berar<sup>a</sup>, S.A. Khan<sup>c</sup>, P.K. Diwan<sup>a,\*</sup>

<sup>a</sup> Department of Applied Science, UBT, Kurukshetra University, Kurukshetra, 136 119, India

<sup>b</sup> School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India

<sup>c</sup> Inter University Accelerator Centre, P.O. Box 10502, New Delhi, 110 067, India

### ARTICLE INFO

#### Keywords:

Energy loss straggling  
Collisional straggling  
Charge-exchange straggling  
Energetic ions  
Titanium foils

### ABSTRACT

Energy loss straggling of energetic Li, C and O ions in varying thicknesses of self-supporting Titanium foils is measured, in the fractional energy loss limits ( $\Delta E/E$ ) – 5–50%. For these measurements, transmission technique is utilized and recorded energy spectra are estimated through Gauss fitting function. The measured straggling values are compared with the prediction of most commonly used collisional (Bohr, Lindhard-Scharff, Bethe-Livingston, Titeica) and collisional plus charge-exchange (Yang et al.) straggling formulations. Titeica theory, which is considering collisional straggling only, shows lesser deviations with the measured values. Based on the present measurements, the fitted relations for charge-exchange straggling is developed.

### 1. Introduction

Recent technological advancements rely on the fabrication of novel materials at nanoscale with tunable properties. In this context, the ion-beam based techniques are proven to be efficient in tailoring the properties of nanostructure materials. The modifications achieved through the ion-beam techniques have brought opportunity to hunt new functionality of a material at nanoscale [1–6]. To utilize these techniques

ionic charge state due to loss or gain of electron while entering into the matter (charge-exchange straggling). For theoretical calculations, both collisional and charge-exchange straggling are first treated independently and then added through quadrature, to determine the total energy loss straggling [19]. Most of the analytical formulae [20–23] used for straggling calculations consider collisional straggling only and consequently show large deviation with the measured values, particularly for heavy ions. Although the charge-exchange straggling can be

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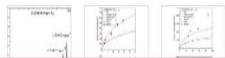
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Energy loss straggling and subsequent higher order parameters in silver metallic foils

Sonia Rani<sup>a</sup>, Sunil Kumar<sup>a</sup>, Piyush Sharma<sup>a,b</sup>, S.A. Khan<sup>c</sup>, P.K. Diwan<sup>a</sup>

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## Energy loss straggling and subsequent higher order parameters in silver metallic foils

Sonia Rani <sup>a</sup>, Sunil Kumar <sup>a</sup>, Piyush Sharma <sup>a,b</sup>, S.A. Khan <sup>c</sup>, P.K. Diwan <sup>a,\*</sup>

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<sup>b</sup> School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala 147 004, India

<sup>c</sup> Inter University Accelerator Centre, P.O. Box 10502, New Delhi 110 067, India

### ARTICLE INFO

#### Keywords:

Heavy ions  
Energy loss straggling  
Skewness  
Kurtosis  
Silver  
Metallic foils

### ABSTRACT

Energy loss straggling and subsequent higher order parameters (skewness and kurtosis) associated with energy loss distribution of Li (5.60 and 7.11 MeV/n), C (4.51 and 7.01 MeV/n) and O (4.91 and 6.16 MeV/n) ions in varying thicknesses of silver metallic foils are measured. The energy loss straggling measurements are used to validate the existing energy loss straggling theories, through comparison. This indicates that Titeica theory shows better agreement, with the measured values, as compared to other considered theories. Through skewness and kurtosis measurements, the shape of energy loss distribution is authenticated.

### 1. Introduction

In this contemporary era, the ion-beam based techniques are widely used for synthesis, characterization and modification of materials precisely at nanoscale [1,2]. These novel techniques have shown significant potential for variety of applications [3–5]. Recently, helium-ion microscopy is proved to be the best microstructure technique capable to expose several interesting features of a material with high resolution [6,7]. Moreover, the ion beam based therapies have emerged as the best

different ion-stopping combinations [23–42]. However, the studies related to energy loss straggling and other higher order parameters during heavy ions interactions are scarce in literature [43–50]. This may be due to experimental limitations and involvement of various complex parameters for theoretical calculations. Furthermore, to better understand the penetration of energetic ions through a stopping material, energy loss straggling, skewness and kurtosis are also essential.

In the present study, the energy loss straggling, skewness and kurtosis of Li, C and O ions in various thicknesses of silver metallic foils are

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