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#### 2019

An Integrated Transcriptomic, Proteomic, and Metabolomic Approach to Unravel the Molecular Mechanisms of Metal Stress Tolerance in Plants	1 2 3 4
Parul Parihar, Samiksha Singh, Rachana Singh, G. Rajasheker, P. Rathnagiri, Rakesh K. Srivastava, Vijay Pratap Singh, P. Suprasanna, Sheo Mohan Prasad, and P. B. Kavi Kishor	5 6 7
1 Introduction	
Rapid rate of industrialization, urbanization, intensive agriculture, and mining has been causing widespread contamination of our soil and aquifer resources with heavy metals. This is a problem of paramount importance since metal pollution can lead to	9 10
dangerous consequences by entering into the food chain (Rascio and Navari-Izzo 2011). Some of the metals may be required for plants as micronutrients (Cu, Fe,	12
Mg, Mn, Ni, Zn) for normal growth and development, but many (Ag, As, Cd, Co, Cr. Hg, Pb, Sb, Se) may not be essential for plant growth or may have unknown	14
functions in the plant systems (Rascio and Navari-Izzo 2011). But, if heavy metals	16
are present in excess amount, they may hamper the metabolic pathways and disrupt	17
the functions of enzymes (Hossain et al. 2012a, b, Ali et al. 2013). Enhanced levels	10
of heavy metals generate reactive oxygen species (ROS) or non-free radical species	19
P. Purihar - S. Singh - R. Singh - S. M. Praxad Ranjan Plant Physiology and Biochemistry Laboratory, Department of Botany, University of Allahabad, Allahabad, India	
G. Rajasheker - P. B. K. Kishor Department of Genetics, Osmania University, Hyderabad, India	
P. Rathnagiri Genomix Molecular Diagnostics Pvt. Ltd., Kukatpully, Hyderahud, India	
R. K. Srivustava International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, Hyderabad, India	

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Nuclear Agriculture & Biotechnology Division, Bhabha Atomic Research Center,

Trombuy, Mumbai, India

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Vijay Pratap Singh

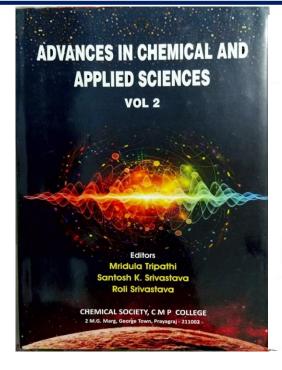




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Archana Pandey Sunanda Das Babita Agarwal

Arti Gupta Dharmendra Kumar Sahu Monika Singh Ashok Kumar Ranjan Akram Ali Arjita Srivastava

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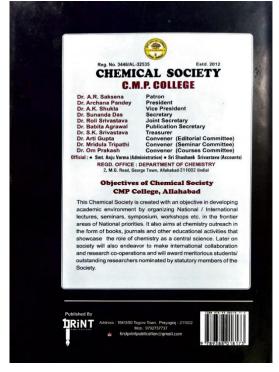
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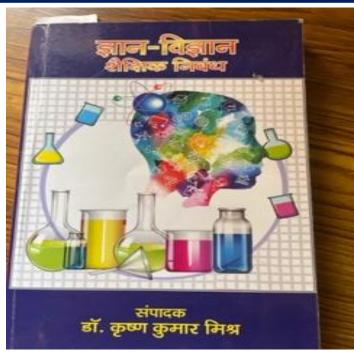
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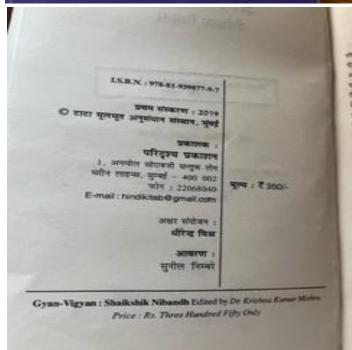






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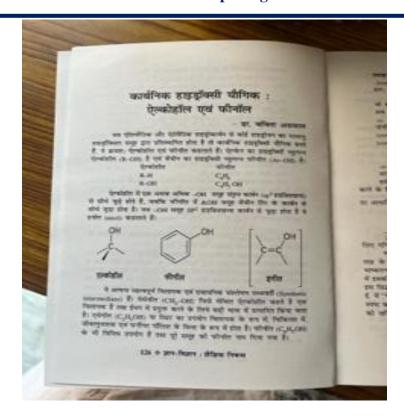








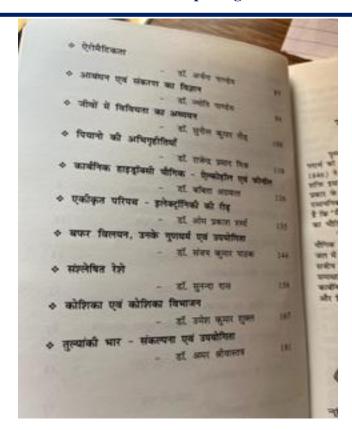
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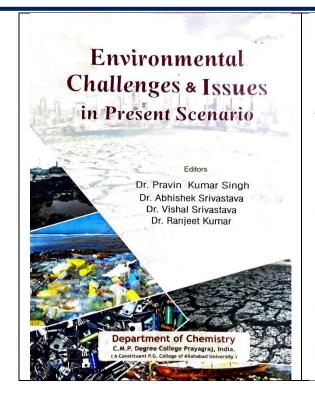






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#### **Environmental Challenges & Issues in Present** Scenario

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Chapter - 1

#### Innovation in plantation

Archana Pandey\* and Babita Agrawal
Department of Chemistry, CMP Degree College, Prayagraj
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E mail:archanaapandey@yahao.co.in

Turning an idea into solution is innovation. Creativity is the ability to generate novel and useful idea and apply these useful ideas is innovation. Along this, relevancy is also necessary. Innovative ideas can be big or small, but it should be new and implementation of this new idea is innovation in real sense.

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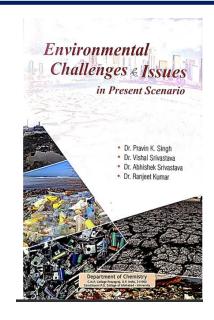
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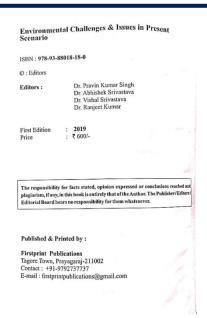




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Advances in Chemical and Applied Sciences - Fal I

Green Approaches for Synthesis of Quinazolinone

#### Introduction

Quimazoline derivatives, which helveg to the 1-containing heterocyclic compounds, have caused universal oncerns due to their widely and divined biopharmacocclical activities. Symbosis of quinasolineaus heterocyclic is activities. Symbosis of quinasolineaus heterocyclic is activities. "A (MI)—quinasolineaus occupy as important position is medicinal and pesticidal chomistry, presenting a wide range of hisactivities. Medicinal obenists synthesized a variety of quinasolineaus compounds with different biological activities by installing variety active compounds with different biological activities by installing variety active groups to the quintasoline century upon since the initial studies on 4(3M)—quinasolineaus, that they are well known as biologically active compounds. They have drawn much attention due to their broad range of pharmacological properties wit actionsous variety inflamenatory", and-conventuant, audi-disartic, fishibitor of HIV-1 revers transcriptates, inhibitor of PAIP-1 interactively and activities of the pharmacological properties of activities are activities.

The synthetic ways for the preparation of Quinassellnots can be classified into several groups: Microwave assisted solvent-free cyclisations, Aza-reaction, Metal-mediated reaction and Phase-transfer untilytic reactions.

A one-post montroverillemits: K-10 elsay supported three correposent reaction of an substituted-luxusheistituted authentific acid, reherythmines, and a substituted-unsubstituted bemois acid expeditionally and explicitly yields a 2-arryl 3-(6-D-ribbotramonyl)-3/f-quistamonilen-4-one as a newal N-traceleoside in excellent yield using microswave braddient under a newal N-traceleoside in synthesized. The applications ander solvent-free conditions in a one-port reaction

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Dr. Anil K. Shukin Dr. Archara Pandey

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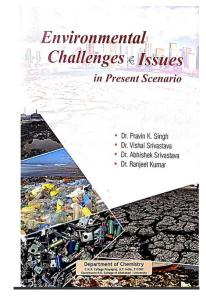


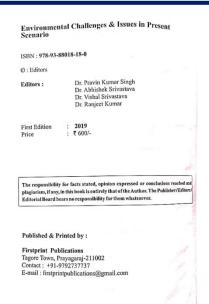


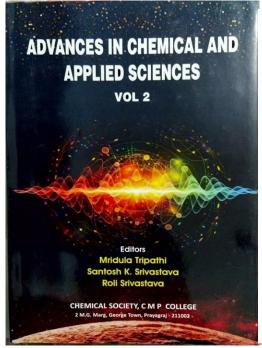
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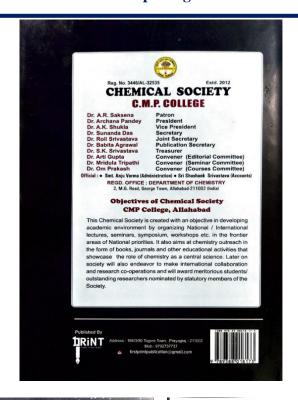


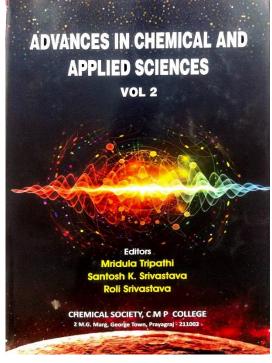


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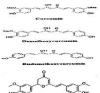
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#### Novel Methods Of Extraction of Curcumin

Archana Pandey\* and Ashwani Sharma

Turneric (Curcuma longa) is cultivated everywhere specially in Sa and South east tropical Asia. The largest worldwide producer of turneric India. It belongs to ginger family. The characteristic yellow colour of rundiude to the presence of curcuminoids which are present in its rhizome. Then curcuminoids present in turneric are — curcumin, demethoxycurcum bisdemethoxycurcumin, and cyclocurcumin.



Turmeric is used as dietary spice in India. It is very effective as asinflammatory, anti HIV, anticancer, antithrombosis, anti Alzheimer, antioxidatantibacterial, antiviral, antitumor, anticarcinogenic, antimutagellic, anticoagulant, antifertility, antidiabetic, antifungal, antiprotective. antivenom, antiulcer, hypotensive, hypochloestermic and heptaprotechie. (Chattopadhya et al., 2014).

ponding Author nent of Chemistry, CMP Degree College (A constituent PG of University of Allahabad) Prayagraj (U. P.) India



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#### **Environmental Challenges & Issues in Present**

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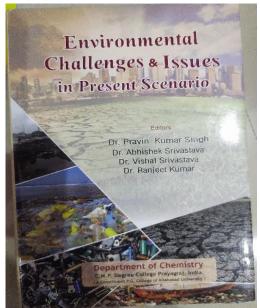


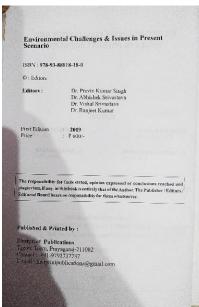


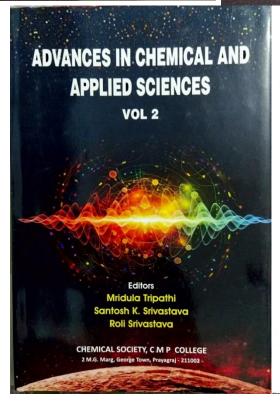
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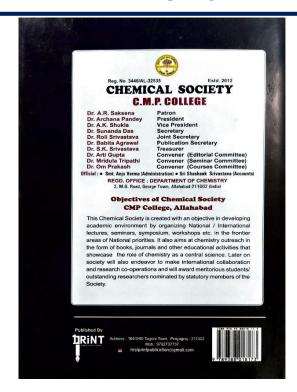
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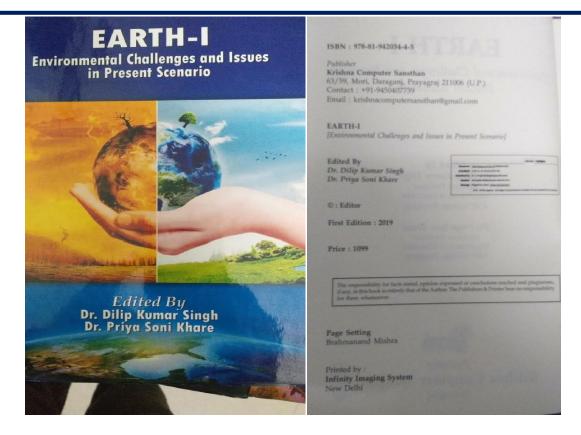
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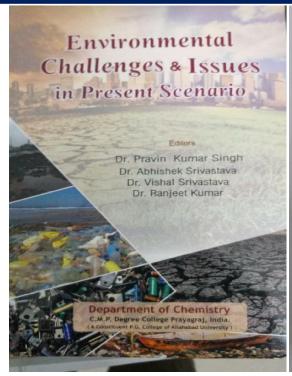




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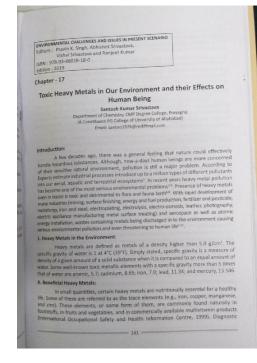
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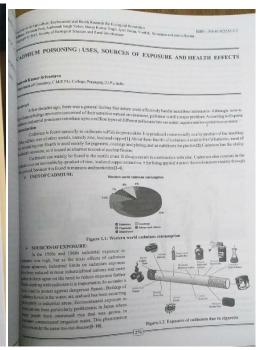
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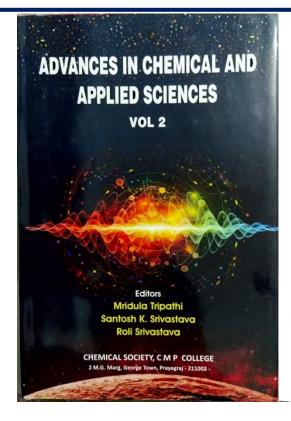




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#### Advances in Chemical and Applied Sciences - Vol 2

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Associate Editors: A. K. Shukla

Archana Pandey Sunanda Das Babita Agarwal

Arti Gupta Dharmendra Kumar Sahu Monika Singh Ashok Kumar Ranjan Akram Ali Arjita Srivastava

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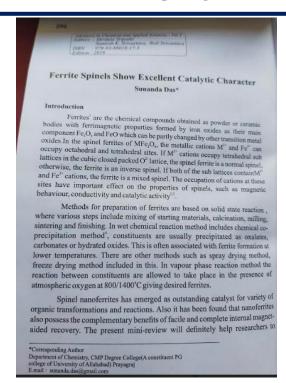


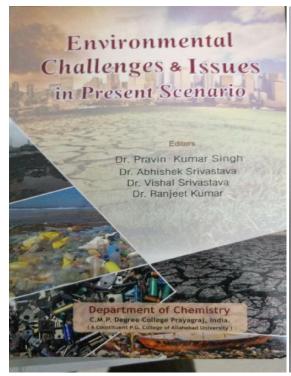


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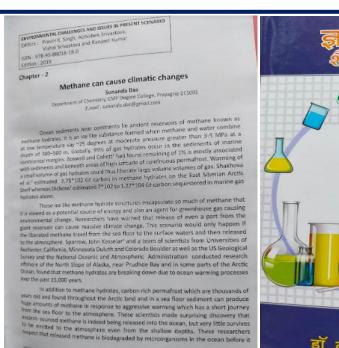


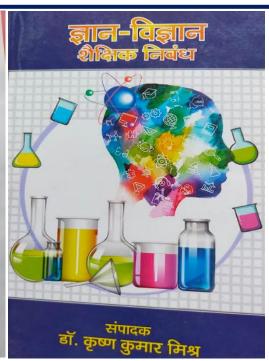


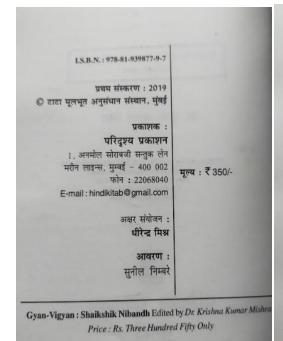
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#### संश्लेषित रेशे

बाँ, सुनन्या बास संग्रह्म के बहुलक यांनि पाँलीमर होते हैं। बहुलक शान्य यो श्रीक शब्ध से गढ़ा है: 'पाँली' का मतलब है कई और 'मर' का मतलब इकाई या हिस्स है। शब्द पाँलिमर या बहुलक को बहुत बड़े उच्च आणिकर इत्यमान (10²-10² U) के अणुओं के रूप परिमापित किया गया है। इनको बृहदण् (मैंक्रोमालब्दूल) के रूप में भी उल्लिखित किया गया है, जो कि एक बड़े पैमाने पर संरचनातनक इकाईकों के कुछ सरल और प्रतिक्रियाशील अणुओं से प्राप्त किया जाता है, बिसे मोनोमर मोनोमर सहसंयोजक बन्ध द्वारा एक दूसरे से जुड़े होते हैं। सम्बन्धित मोनोमर संप्तिक्रया को बहुलकीकरण या पॉलीमेग्सईबेशन कहते हैं।

### बहुलकों का वर्गीकरण (Classification of Polymers)-

बहुलक साधारणत: दो मुख्य वर्गों में विभाजित किए जाते हैं।

- 1. प्राकृतिक बहुलक (Natural polymers)
- 2. संश्लेषित बहुलक (Synthetic polymers)

 प्राकृतिक बहुलक (Natural polymers) : प्राकृतिक बहुलक प्रकृति में पाए जाते हैं, जैसे-पॉलिसेक्रेग्डड (स्टार्च और संलुलांस), प्रोटीन यानि पॉलिपेप्टाइड, न्यूक्तिक अम्ल (पॉलिन्यूक्लिओटाइड) और प्राकृतिक रवर आदि प्राकृतिक बहुलक हैं।

अर्द्ध-संश्लेषित बहुलक (Semi&synthetic polymer) : सेलुलोज नाइट्रेट आदि इस उप श्रेणी के सामान्य उदाहरण है। इसके अन्तर्गत सेलुलोज श्रेसीटेट आते हैं, जैसे-सेलुलोज ऐसीटेट (रेबॉन)।

2. संश्लीयत बहुलक (Synthetic polymers): कृत्रिम विधियों द्वारा मानव विभिन्न बहुलक कहते हैं, पालिथीन, पालिएस्टर, नाइलॉन, बेकेलाइट, कृत्रिम रबर आदि संश्लीयत बहुलक हैं। विभिन्न प्रकार के प्लास्टिक, कृत्रिम रहें। (Fibre) और प्रत्यास्थ बहुलक हैं। विभिन्न प्रकार के प्लास्टिक, बहुलक हैं, जिनका उपयोग सैश्लीयत बहुलक हैं, जिनका उपयोग सैशक जीवन में उपयोगी औद्योगिक, चिकित्सीय, वैज्ञानिक एवं तकनीकी महत्व की अनेक बस्तूएँ बनाने में होता है।

 इलैस्टोमर (Elastomer) : यह रवर जैसे डोस और लचीले प्रकृति के डोते हैं। इन लचकतार बहुलकों की श्रृंखलाएँ सबसे कमजोर प्रकार के अन्तरा-अणुक

158 💠 ज्ञान-विज्ञान : शैक्षिक निबन्ध

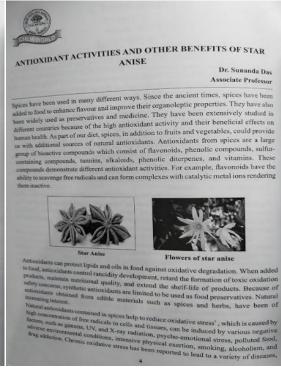




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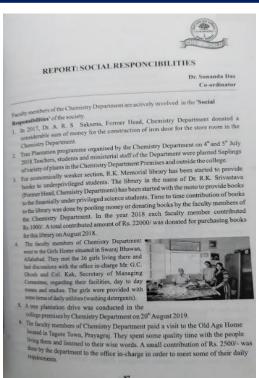


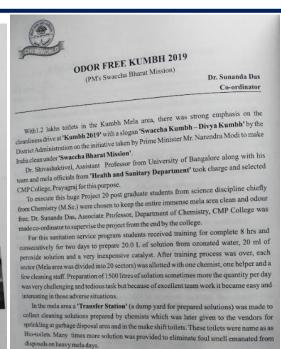


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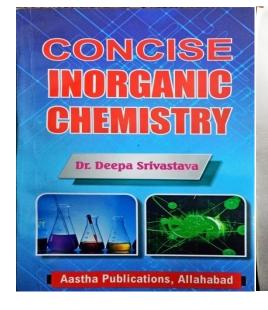
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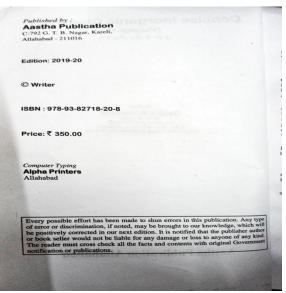




Due to extreme hard work of these chemists (students) mela was literally odour free and

clean. This was highly appreciated by Chief Minister Yogi Adityanath ji, Prime Minister Shring ShrNarendra Modiji, District Administration, Ministers and Chief Ministers from others States, delegates from Foreign Countries, Foreigners, Pilgrims, Sadhu's and Baba's from various



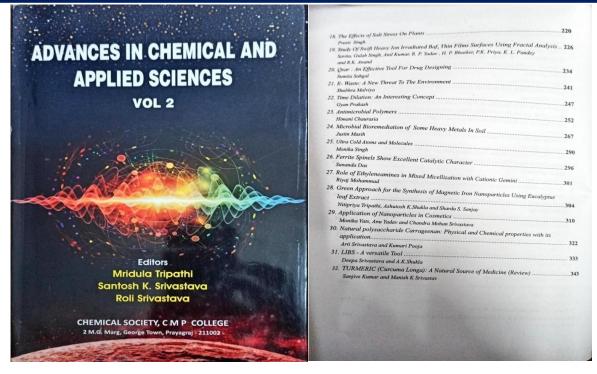


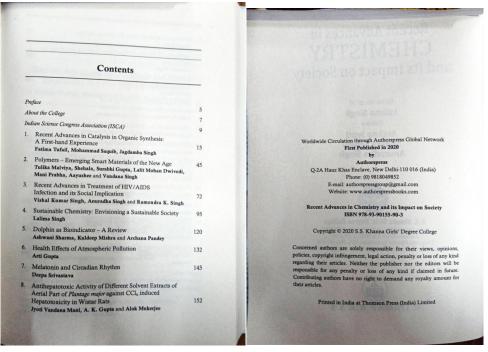




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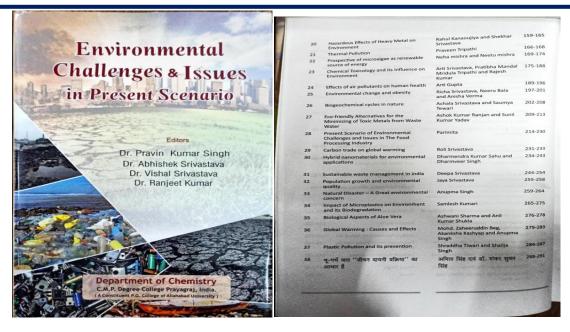


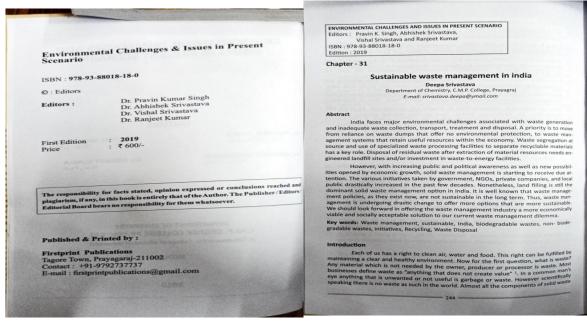




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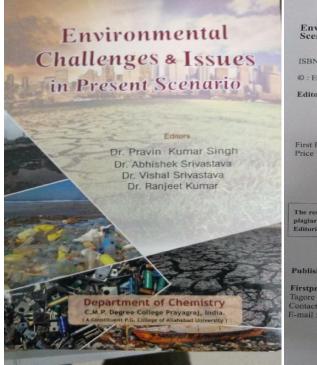






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### ENVIRONMENTAL CHALLENGES AND ISSUES IN PRESENT SCENARIO

Editors Pravin K. Singh, Abhishek Srivastava, Vishal Srivastava and Ranjeet Kumai

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Chapter - 16

#### Role of Metal Organic Frameworks for Environmental Contaminant Sensing

Deepanjali Pandey\* and Monika Singh Department of Chemistry, CMP College, Prayagraj (A Constituent P.G. College of Allahabad University) Email:deepanjalipandey,1@gmail.com

#### Introduction:

Introduction:

In the past decades, with the population boom and industry development, environmental pollution has become a serious problem for the ecosystem and public health. Many types of pollutants, e.g., water and air pollution of heavy metals, organic compounds, and toxic gases, are associated with health risks<sup>1</sup>. Chromatography and its coupled techniques are the most widely used methods in determining environmental contaminants. However, chromatography-based techniques often require expensive equipment, complex pretreatment, and long test times. Thus, new sensing technologies, which posses the advantages of high sensitivity, rapid detection, ease of use, and suitability for in situ, real-time, and continuous monitoring of environmental pollutants, are highly needed.

A sensor is normally composed of a sensing unit and a transduction unit to translate the sensed information into another type of signal, e.g., an electrical or optical signal. The working principle of a sensor is based on its transduction mechanism, which is based on changes in the optical, electrical, photophysical, or mechanical properties of the sensing element in the sensor when it interacts with the analytes<sup>2</sup>. In a sensor, important sensing characteristics include sensitivity, selectivity, response time, reusability, long-term sensing characteristics include sensitivity, selectivity, response time, reusability, long-term stability, and cost. Hence, the selection and design of the sensing material employed in the sensor platform are key points with regard to sensor performance. To date, various microand nanomaterials with different characteristics have been employed in environmental monitoring sensors, including nanocarbon materials (carbon nanotube and graphene), metals and metal oxides, semiconducting materials, quantum dots, and polymers. The development of novel sensing materials with excellent properties greatly promotes sensor research and applications.

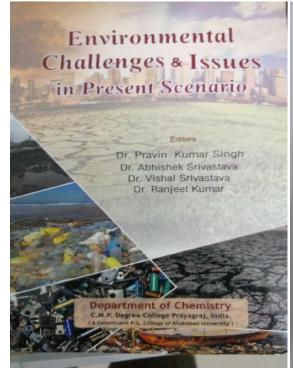




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Role of Metal Organic Frameworks for Environmental Contaminant Sensing

Deepanjall Pandey" and Monika Singh
Department of Chemistry, CMP College, Proyagraj
(A Constituent BC, College of Allahabad Wirevestry)

Emolt deepanjaligandey, 18/9 gmail. com

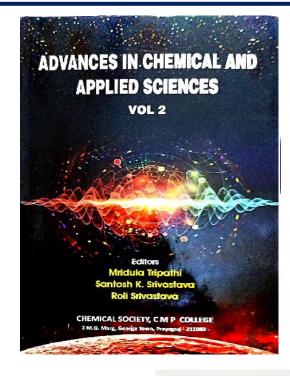




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#### **Ultra Cold Atoms and Molecules**

The present topic discusses the impact of the development of law The present topic discusses the impact of the development of facen or Ultracold atoms and molecules and their applications. Physicial Satyendra Nasi. Bose and Albert Einestien in 1924 proposed that atoms could be chilled to a point so they can joined togetherin a single quanta state. After a brief historical review of laser cooling and making of ultra cold atoms and Bose-Einstein condensation, we present important applications of ultra cold atoms, including time and frequency metrology, does interferometry and inertial sensors, stan-lasers, simulation of condensed matter systems, production and study of strough correlated systems, and moderation obligated to because its strough correlated systems, and moderation obligates of throughout strough correlated systems, and moderation obligates of throughout. strongly correlated systems, and production of ultracold molecules.

Keywords: Doppler cooling, magnetic optical trap, —BoseEinstein condensate, ultracold atoms

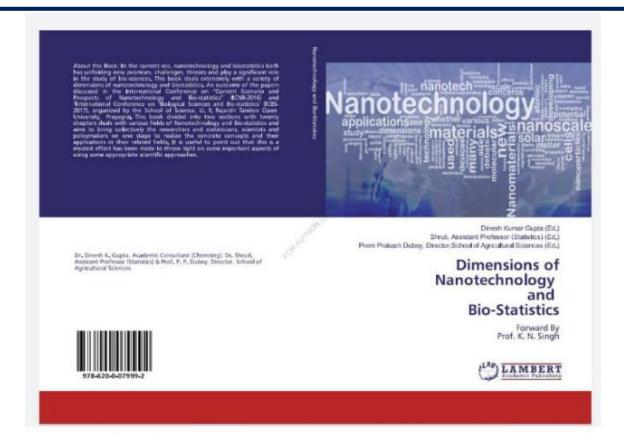
As we hear the word ATOM OR MOLECULE we know ATOM is the As we near me word ATOM OR MOLECULE we know ATOM "is the smallest individual particle comprising of electron, proton and nearon." Hen-this chapter deals with "COLD ATOM or MOLECULES". The word "Ultracold atoms," are the atoms that are maintained at temperatures close to kelvins (absolute zero), typically below temperatures of some tends of microkelvins (µK). At these temperatures the atom's quantum-mechanical properties become important. Several other Nobel Prize in physics is related to the development of the techniques to manipulate quantum properties of individual atoms (e.g. 1995-1997, 2001, 2005, 2012, 2017).

Invention of these new kind of atoms depends on the interactions of a diffuse gas with a laser field. Evidence for radiation pressure, force due to hight on atoms, shown by Lebedev, and Nichols and Hull in 1901 and later in 1913. One Frisch demonstrated the deflection of individual sodium particles by high





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6. Bioinspired Nanomaterials: Syathesis and Applications

Dharmoeer Singh, Monika Singh, Shahni Verma d. Vijay Krishna

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#### **Bioinspired Nanomaterials: Synthesis and Applications**

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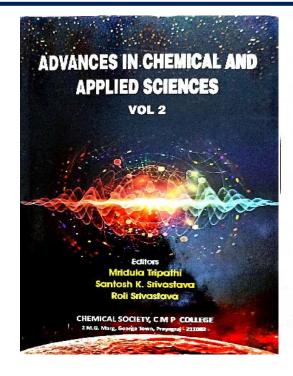




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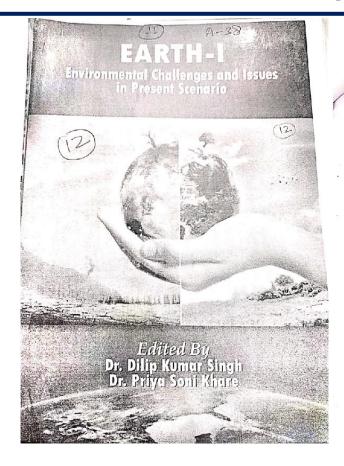
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### EARTH-I

Environmental Challenges and Issues in Present Scenario!

### Edited By Dr. Dilip Kumar Singh Assistant Professor Department of Education CMP College, Prayagraj

Dr. Priya Soni Khare Assistant Professor
Department of Education
CMP College, Prayagraj

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### Expansion of Agricultural field using biodegradable polymers

Arti Srivastava, Mridula Tripathi, Rajesh Kungr

#### Introduction

Biodegradable polymers becomes much popular in the last decades Biodegradable polymers occurred many popular in the last decades of their potential applications in the areas related to environment conservation to their potential applications in the areas related to environment conservation to their potential applications in the areas related to environment. their potential applications in the areas retained to environment conservation to about the protection of physical health. Biodegradable polymers have secretarial tike microbial degradation that is been also but create the problem was to frequent use. Therefore, the biodegradable properties of biodegradable physical times are the problem which have been improved by using the random and block copolymerization and year. have been improved by using the monomer/polymer. These methods improve both the biological monomer/polymer. the mocompanione monomer pergraes. These methods improve nontine managed rate and the mechanical properties of the modified biodegradable polymer. Paga blending is another route to prepare biodegradablematerials with siles morphologies and physical characteristics. The area of agriculture, adoubte medicine and packaging all require environmentally friendly polymers. Bankpa limit carbon dioxide emissions during creation and degrade to organic materials Biopolymers fulfil the environmental concerns but have some limitations in least economics and performance, such as thermal resistance, barrier and medical properties. For value added products, smart and responsive molecules and introduced into the polymers for active and intelligent packaging, giving the identification. identify the products inside the package and nutritional values in case of packaging. The use of biodegradable polymers is expected to increase in least areas where practicality is favoured by reason. With the development of technologies on biodegradable polymers, the reduction in cost is directly that nerease in mass production. As environmental concerns continue to ansea hat biopolymer has a promising future. The use of polymer in agriculture to pularity in science sopularity in science, particularly in the field of polymerchemistry. This hope olurions to the problem. olutions to the problems of the present day agriculture, which is to make productivity with ndwater productivity without threatening the environment and the name of

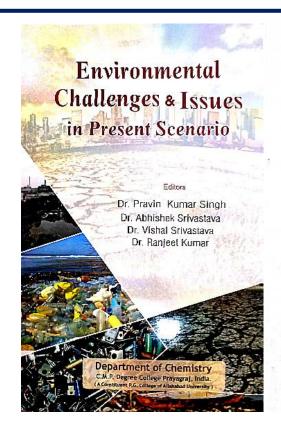




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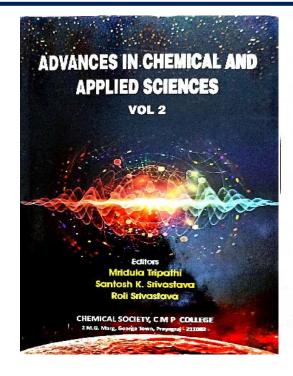




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Archana Pandey Suranda Des Bahita Agarwal Arti Guptu Dharmondra Kumar Sahu Muniku Singh Ashok Kumar Ranjan Akrata Ali Arjitz Srivastava

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Prayeen Tripathi\* and Dharmendra Kumar Sahu

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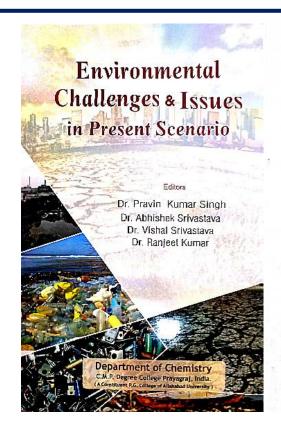




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Chapter - 21

#### Thermal Pollution

Prayeen Tripathi
Department of Comistry, CMP College, Prayagraj
(Constituent PG, College of Allahabad University) Email: pravees\_chem97@rediffmoil.com

Interduction:

Thermal pollution is the degradation of water cuality by any process that dags ambient water temperature. A common cause of thermal pollution is the use of water a contain by power plants and industrial manufactures. Dither causes of thermal pollution is included as a contain. This will elevante water and expose it to surright. When water use as a contain is returned to the natural environment at a higher temperature, the vote change in recognizative decreases agong supply and affects cocysten concession for and other organisms adapted to particular temperature range on the killed known and other organisms adapted to particular temperature range on the killed known as it is not to the containers and the size of the containers and the containers and the containers and the containers are contained to the containers are contained to the containers and the containers are contained to the containers and the containers are contained to the ом може organisms adapted to particular temperature range can be killed by change in water temperature (either a rapid increase or decrease) known as Shock".

Some sources of Thermal Pollution are:

Coal - Fred power plant
 Indivisirial Effluents
 Hydro-electric power
 Comestic Sewage
 Hydro-electric power
 Congical effects:

Ecological effects:

Elevated temperature decreases the level of dissolved oxygen. This can have acustic animals such as fish, amplibbins and other aquatic organisms. Thereof levices may also increase the metabolic rate of aquatic animals, as onyme activity, resurring in these organisms consuming more food in a shorter time than if their consenses were not changed. An increased metabolic rate may result in fewer resources, the not adapted organisms moving in may have an advantage over organisms that are not also the women temperature. As a result, food chains of the old and one evidences may be compromised. Some first species will acute stream segments or coals are adjected to a thermal dischance, light resuperature littles oxygen dispection for decreasing waters contributing to anaerooic conditions. This can lead to increased bacterial when there is ample food supply, thany aquatic species will fall to reproduce at elevate temperatures.

ADVANCES IN CHEMICAL AND **APPLIED SCIENCES** VOL 2 CHEMICAL SOCIETY, CM P COLLEGE

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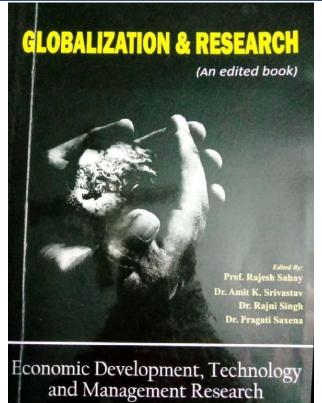
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Correlates of Job Satisfaction and Occupational Stress among Degree College Teachers

<sup>1</sup>Dr. Abha Singh, <sup>2</sup>Dr. Dilip Kumar Singh

#### ABSTRACT

ABSTRACT
The most fundamental way to improve the quality of education is through the improvement in teacher performance; therefore, it is required to identify the factors influencing teacher's compelence. The effectiveness of the teacher becomes vital to face the emerging challenges of globalization and liberalization on the one side, and mushrooming of the educational institutions on the other side. Only the effective teachers can explore the hidden capacities of the students and mold their behavior into desirable directions. An effective teacher proves himself as an instrument to meet the desired goals of education. Who are an effective teacher and what are his attributes are important to be known, so as to make educational programme successful. Hence, a proper and systematic study in this respect is very essential, in thus study field survey method of Descriptive research was used. The population of the present shudy has been defined as the Teachers of different systematic study in this respect is very essential, in this study field survey method of Descriptive research was used. The population of the present study has been defined as the Teachers of different aided and self-financed degree college teachers of district Prayagraj, Multistage Random sampling was used for study. The Sample comprised 100 degree college teachers, 50 each from eided and self-financed degree college teachers of district Prayagraj. To know the the Job Satisfaction a 'Job Satisfaction Scale' constructed and standardized by S.P. Gupta and Occupational stress as 'Occupational Stress Scale' constructed and standardized by K.S. Misra was used. Pearson's Product Moment correlation was used to analyze the data.

Job Satisfaction is not related to Product Moment correlation was used to analyze the data. the Occupational Stress of total teachers and Male teachers of self-finance Degree College. But in case female teachers Job Satisfaction is negatively related to the Occupational Stress.

Keywords

Job Satisfaction, Occupational Stress, Teachers, Prayagraj

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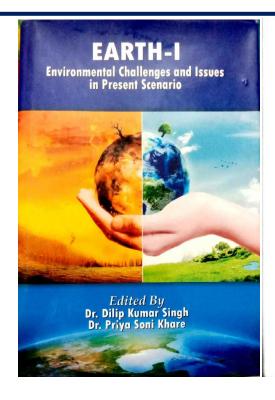




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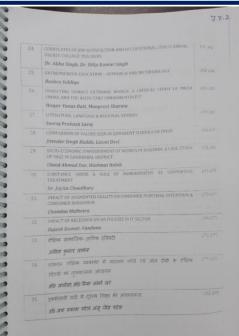
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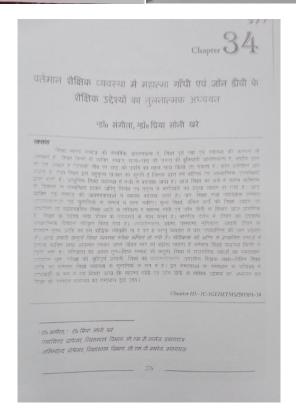




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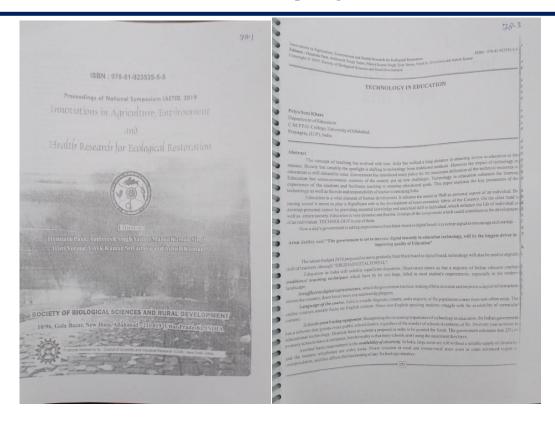








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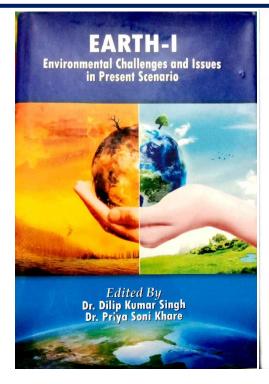




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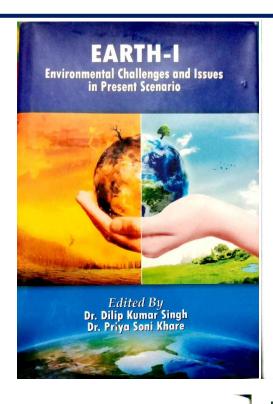




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## Edited By Dr. Dilip Kumar Singh Assistant Professor Department of Education CMP College, Prayagraj

Dr. Priya Soni Khare Assistant Professor Department of Education CMP College, Prayagraj



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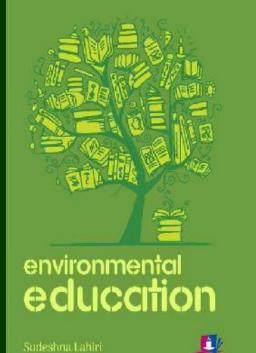




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Department of Education Calcutta University, Kolkata, West Bengal, India

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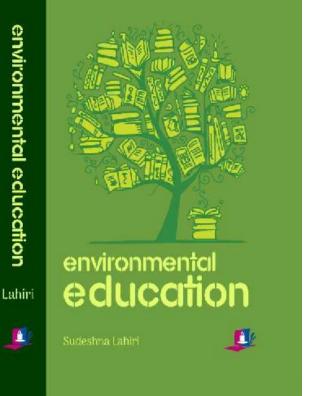
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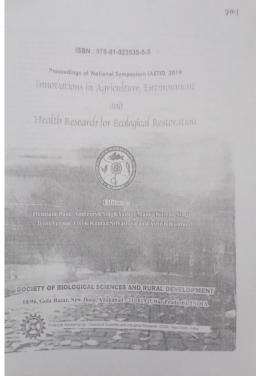
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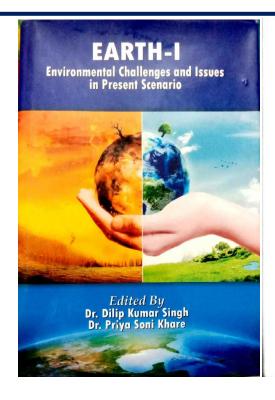




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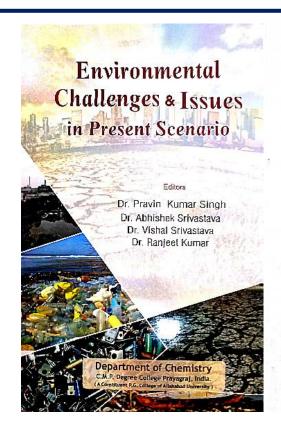




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#### Chapter - 3

#### Attitude of Kalpvasi towards Environmental Awareness in Kumbh Mela

Dilip Kumar Singh
Department of Education, CMP Degree College, Prayagraj
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Kumbh Mela is the world's largest religious gathering and is the most peaceful gathering on the earth. The Prayagraj Kumbh Mela has deep philosophical and spiritual significance for Hindus. It is commonly believed that those who take a holy dip in bacred water of rivers—Ganga, Yamuna and Saraswati at Prayagraj, get rid of all sins and attain liberation. The place where all the three rivers join each other is called Sangam.

As per the religious texts, it is believed that the tradition of long-term Kalpvas is practised only in Prayag. According to Vedas, a 'Kalp' is a period equal to the total number of years in the four yugas — Satyug, Tretayug, Dwaparyug and Kalpyug. All the four yugas add up to several lakhs of Years. It is said that by observing Kalpavas, one can overcome the sins and escapes the cycle of janma and karma. As per the rituals, during each day of the Magh Mela, a Kalpvasi has to take a dip at the Ganga on sunrise praying to the rising sun and take meal once a day. After observing 12 Kalpavas, the person has to perform Shayya Daan (donate his/her bed and all his belongings)<sup>1</sup>.

All the natural gifts that are found in abundance and makes us survive are offered by the environment and if we attempt to damage it, it is nothing but suicidal. Of course, there is an increasing awareness among people regarding the damage caused through air pollution, deforestation, depletion of ozone and so on. This tempo has to be carried through to our future generations too. Environment is a broad term; it includes not only physical or material aspects but psychological, social and cultural aspects as well. Thus, environment consists of material and non-material surroundings of human beings. Nature provides a limited freedom to man for conducting his exploitation activities. Man is a part of nature and hence cannot exert control over nature on the basis of his free-will. When he tries to break the laws of nature he is bound to face the serious consequences. In the world, the healthy existence of human society is getting worse. Humans, in their overzealous attempts to develop the world around them, have set in motion the process of its deterioration. Today, we hear of environment problems such as pollution, acid rain, oxone depletion and the greenhouse effect. Pollution issue is a global issue that needs

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## Quality Concern in Higher Education

Dr. Dilip Kumar Singh

Assistant Professor Department of Education CMP College, Prayagiaj.

fligher caucation is a powerful tool to build modern, value-based, knowltriguer cancernate a posterior description of the conference of th coge pasea, cantare pasea, and pasee at ascers, remen can read me country towards becoming super power in the world. It is also considered one of the important and strong tools for the development of any country frimary education is necessary for creating base, while, higher educarinnary curcation is necessary to executing datase rinner ingreat education tion is extremely important for providing cutting edge. Higher education contributes to the growth of nation by providing specialized knowledge and skill manpower. Education, both formal and informal plays an increasingly stal role in promoting economic solidarity, social cohesion, individual growth, sustainable development, and a culture of peace and world enzemblip. Whereas our views about the way we live learn, work and think about work have changed the acquisition of knowledge and skills provided by a traditional formal educational setup do not correspond. A new paradigm that is developmental, human-centered, environ mentally sound, and all inclusive must evolve, so as to prepare learners to be contributors to knowledge and not just mere recipients of knowledge. Knowledge is the driving force in the rapidly changing global economy and society. Quantity and quality of highly specialized human resources determine their competence in the global market. It is now well recognized that the nized that the growth of the global economy has increased opportunities by countries with good levels of education and vice versa. Therefore, education one of the best investments a developing nation like India can make to progress in every dimension.

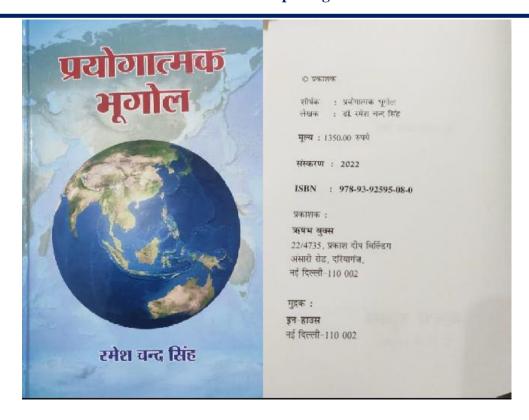
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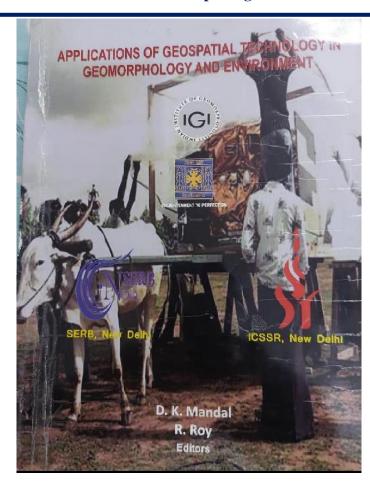
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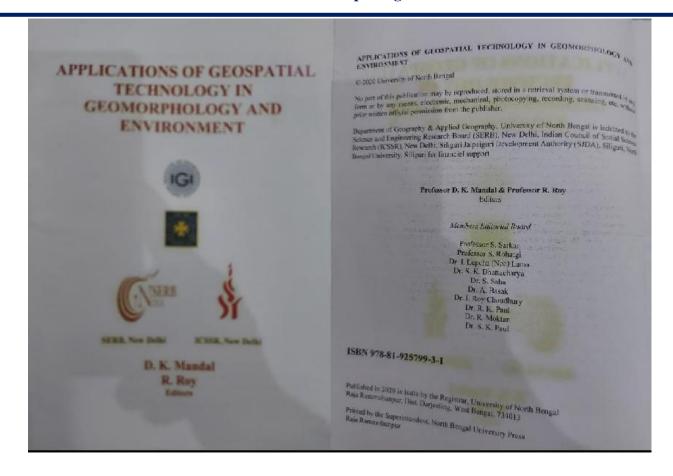






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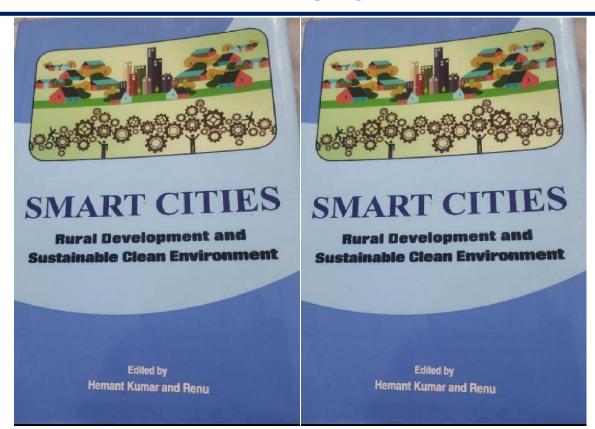
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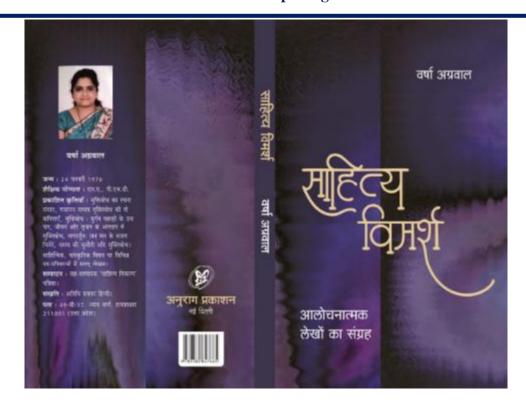






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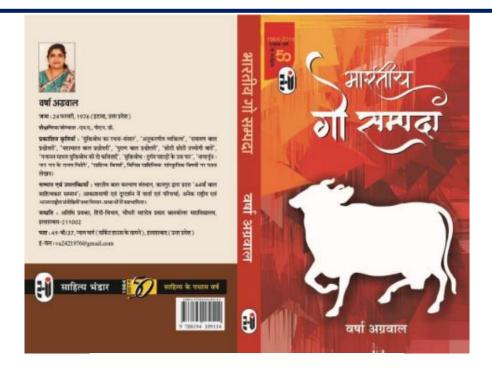




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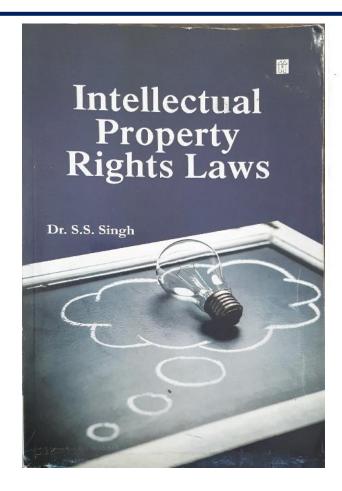




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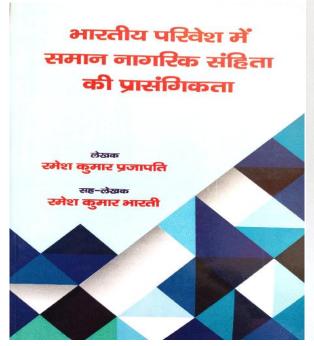




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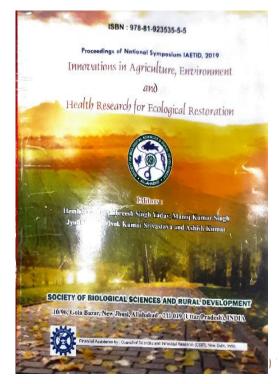
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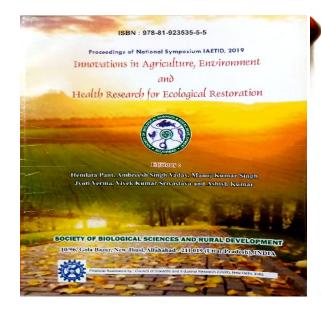




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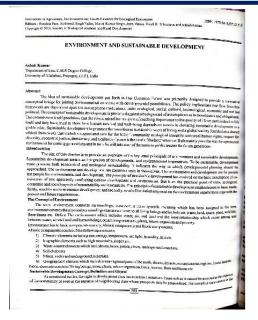


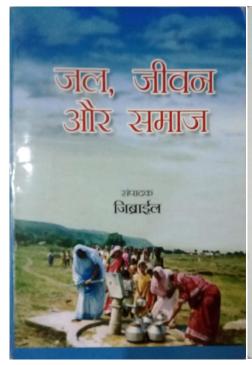
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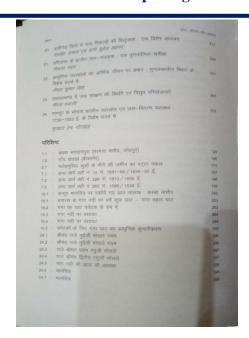








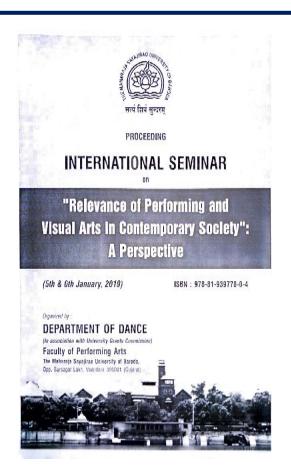
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शास्त्रीय संगीत एवं वर्तमान परिवेश

सष्टीय संगोष्ठी कार्यवृत्त (दिसंख ११-१**३ शर्थ**, 2018)

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क् आकांक्षा पाल

हमारी भारतीय संस्कृति दिश्य की गांध धारीमा एवं अस्मान आयोगसा अंश्वीत है। तेस्कृति के प्रत्यूति के प्रत्यूति के पूजा को ७५०- विधान में वीधना प्रत्या का गृतित्व है। क्षेत्राती में २५० तीवत्त काला की तांक्षित काला में अंत्रीत्व संस्कृति के प्रत्यूति के प्रत्यूति के स्वत्यूति के प्रत्यूति के स्वत्यूति स्वत्य

प्रशिक्त में अंदेश के की का प्रशिक्त का स्थान करने का गान जाता है। 3न मान का आधार को अनुमान की जाता है। अने मान का अधार को अनुमान की जाता की स्थान किया अंदे के उत्तर का कर का निर्माण करने है। अने का मान की साम का अधार का मान किया के किया मान किया की किया मान किया की किया मान की किया का मान किया के किया मान मान का किया कि अधार का किया का है। विद्यालय के किया मान मान का किया कि अधार की किया का है। विद्यालय के मान की मान की मान की किया की मान की की मान करने की मान की म

ंदिन था। में में प्रदर्शन को बीजार्गण संभीत जान के साथ ही प्रारम्भ हुंगा। सामित पूर्व में में प्रपत्नी एक-पूजरे क पूक्त है। में प्रदर्शन के दी प्रपूष्ट पत होते हैं भी क्या को कलानार हुंगा हुंगा होते हैं। विधान अपनी अपनी-अपनी मताव्याण पूर्विका सीती है। प्रदेश कलाजार का प्रदृष्टिय, मुहारूप से अपनी वाजा-कोशन से बीजाओं को प्रधानिक करना होता है। पर्रमु साथ ही अपनी कला के तहर को कामन रचना में कलाजार का निर्माण करने करने होता है। पर्रमु हुंगा हुंगा साथकर को आयोगिक परिक्रम व साधना अनेक वर्षी तक निर्माण करने क करने प्रदेश की हो। बीजा भी अपने जामिं एक सवस हकाई है। उसकी संस्थान कर स्थाप स्थापिक है। कहें भी कुत में उन्हर्भ करने कर आयोगिक प्रदर्शन सुनना आहें। विश्वती संस्थानार का मुनीबन की

आता के करवावार विकार-सावश्री नवार होक्सांगर, नंद-नंद पश्चारिक आवार संघर यो नोर आतं से नंदीन-नाति परिविद्ध है। यह लिख नद प्रमानी होशा अपनी करता-प्रमुत्ति में नवीनता जा रहे हैं। संगीत की शोन्दर्य ग्रीकि के हारा आशी को स्थाई आशे भी जनावार उसे रहमान कर देना प्रमान के एक्स भीता है। " नाता कुआ गर्म

करावार के किया आर्थ-अरवर्ध (saif Perception) एक सामान्य प्रथम ५५३ होता है अर्थात्र करता का कराव से ध्रमार आर्थ-अरवर्ध (भाव जीवन की समृद्धि, उसके मुनियोण) आर्था साम्राज्यस्थ १४ मात्र भाव भावरण करणा है नहीं अपिश्व (भाव जीवन की अभिव्यक्ति एवं विकास के दिखे अरवित्य है। १४ आर्थ-५ न की भड़्यान, उसके आयाशिका वैयन की अभिव्यक्ति एवं विकास के दिखे अरवित्य है। अर्थात एक उत्तर कोटि की कराव है। इसके मुख्यम से करवाकार तथा औरंग होने के महिरास

स्तीत एक उच्च कौटि की माना है। इसके साध्यों ने ग्रांताकार तथा आंता दानों के सास्तरक स्वांतित सीचे हैं तो सार्वातिक काल जा पापूण तीचा है। तमे से किया गया शंगीर का पूजा हो आगण की प्रवर्शी का माना है। शंगीरा कला के लीकिक अस्तित्व का मध्यम कालावार है। प्यूच कालावार करता है एवं कालाक एके स्वयंत्र कोंग्रेस से प्रवर्श नरसा है अस्ति। मृत्यूच की पुलीती, गिमाना, प्राचीर जीकर, सामें करता पर आगारित है। कर्ला आसानिश्योच्या का दूसरा पास है आशा कियानिक वालावा अर्थ ना की बेसीन कि मस्त्रीतंत्रमा एक रहला है शासानिश्योच्या कालावार है। यह कियानिक विश्वास अर्थ ना की बेसीन कि मस्त्रीतंत्रमा एक रहला है। इसका मानिश्य अस्त्रमा है, यह किया विश्वास करने

शोध भाजा (भेट/क्रेट), संगीत एवं प्रवर्शन कला विमाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद।

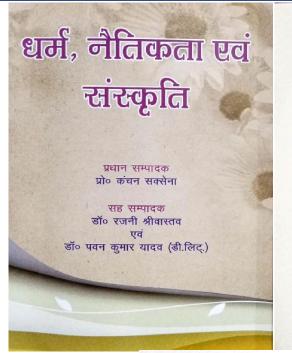




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## धर्म, नैतिकता एवं संस्कृति

प्रधान सम्पादक प्रो० कंचन सक्सेना विभागाध्यक्षा, दर्शनशास्त्र विभाग, लखनऊ विश्वविद्यालय, लखनऊ

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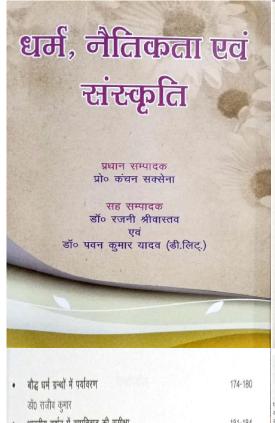




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 भारतीय दर्शन में ख्यातिवाद की समीक्षा
 प्रज्ञा राय

 साँची के महास्तूप के आलोक में स्तूप संख्या-2 और 3 में उत्कीर्णशिल्पकला का ऐतिहासिक अध्ययन एवं दार्शनिक विमर्श

रूचि सिंह
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डाँ० ऋचा श्रीवास्तव

Constructivist Theory of Right
 Dr. Pawan Kumar Yadav

Euthanasia : A Socially Sensible roadmap for Humanity
 Rinku Mishra

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### Constructivist Theory of Right \*Dr. Pawan Kumar Yadav (D. Lit.)

Kant made a consider step forward in the elucidation of moral when he identified the basic formal feature that any moral judgment must display in order to be valid: its autonomy, its universality, and unconditionally with regard to desires and interest of the agent. The same project carried forward, among other by Rawls, whose original position is a dramatization of procedural condition of moral discourse. He assumes that, if this condition is satisfied and certain rule rationality leads to his to principle of justice.

Rawlsian Constructivism -

Rawls does not focus his attention on political obligation and the legitimacy of political authority though these are not excluded but rather on the justice of social system and social structure, social justice, as defined by Rawls, requires that the basic structure of society confirm to just principle which ensure the 'proper distribution of the benefits and burdens of social co-operation' and a proper assignment of basic rights and duties. 

The development of Rawls's theory has gone through several phases, and is still not end. Rawls does not conceive of the social contract as an actual bistorical segart.

The development of Rawls's theory has gone through several phases, and is still not end, Rawls does not conceive of the social contract as an actual historical event; rather he wishes to use the idea as an 'analytic construction'. Broadly his idea is this. The problem of justice arises in the society because individual members of society make competing, claims to the advantage produced by social co-operation. But despite this competing, it theoretically possible that all members of society should agree on principle to regulate the distribution of these advantage. Furthermore, such on (hypothetical)gareement or contract can be taken as specified principle of justice subject to one very important condition-that it be made in a situation which itself fair as between 'all the parties involved. This hypothetical fair situation is called by Rawls' the original position'. Much of Rawls's theory is devoted to specifying the feature necessary to a fair original position and to deducing in the manner of a thought experiment what principle would be agreed in it all parties.'

Since the point of postulating this social contract is to arrive at a resolution of conflicting claims, the constructing parties must first be an assumed to act on the basis of self interest, in this sense; each is concerned to protect, and indeed maximize his capacity to pursue his end or purposes. In this way, the original position reflects what Rawls calls, 'the circumstances of justice'. Also the contractor in the original position must be

\*Asst. Professor & Incharge, Department of Philosophy, C.M.P.P.G.College, University of Allahabad

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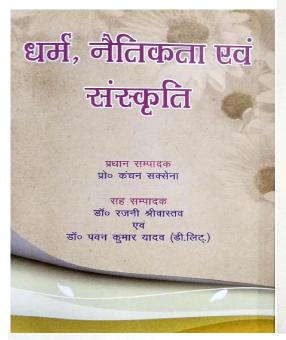




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### व्यष्टि एवं समष्टि में विकास और संबंध का विश्लेषण (श्री अरविंद दर्शन के विशेष सन्दर्भ में) हों. रेनू चीधरी \*

आधुनिक काल में व्यष्टि तथा समष्टि के विकास को लेकर विभिन्न दार्शनिकों ने अलग्नु विचार प्रस्तुत किये हैं तथा संसार के अलग-अलग देशों में विभिन्न विचारों को लेकर प्रयोग भी कित हैं। प्रकृति में विकास कैसे होता है या विकास की क्या प्रक्रिया है? व्यष्टि एवं समष्टि में क्या संबव हैं। सन्दर्भ में अरविंद की क्या दृष्टि हैं? इन बिन्दुओं का विष्लेशण प्रस्तुत शोध पत्र प्रमुख विषय है।

प्रकृति के विकास में जब कभी किसी नये स्तर का अवतरण होता है तो वह सबसे पहले ह थोड़े से व्यक्तियों में स्थान बनाता है, उन्हीं में विकसित होता है, शेष सब कम से कम समय तक ज् त्यों रहते हैं। अब यदि इस सीमित केन्द्र की शक्ति बढ़ती गई तो क्रमशः समाप्त हो जाता है। <sub>आवव</sub> मानव समाज निम्न स्तर से उठकर क्रमशः बौद्धिक स्तर पर आता जा रहा है उनके मूल में इसी प्रकार ह प्रक्रिया चलती रही है। पहले कुछ थोड़े से विचारकों, जिज्ञासुओं, वैज्ञानिकों में बौद्धिक विकास हुआ तह क्रमशः यह अन्य लोगों में फैलने लगा। कहीं-कहीं किसी सीमित क्षेत्र में आध्यात्मिक स्तर का गी विक हुआ जैसे कि प्राचीन भारतीय ऋषियों में देखा जा सकता है परन्तु मानव समाज अभी इस तह ह विकास के लिये तैयार नहीं हो पाया था। अतः आध्यात्मिकता कभी भी सीमित क्षेत्र से आगे नहीं बी समूह में संबाग विकास का यह सिद्धान्त है कि उसमें कोई भी परिवर्तन अकरमात् नहीं लाया जा तत जब तक कि सम्पूर्ण समिटि उसके लिये तैयार न हो। इसीलिए आज तक के मानव इतिहास में जब क्लें कुछ आध्यात्मिक प्रवृत्तियाँ चर्ची हो तो कालान्तर में निम्न प्रवृत्तियाँ उन पर हावी हो गयी। प्राचीन सह में वर्णव्यवस्था में ब्राह्मणों में जीवन के अत्यन्त उच्च आदर्श प्रचलित थे। परन्तु यह आदर्श सा भी वर्णव्यवस्था में ब्राह्मणा में जावन के जल्दन उच्च जावर में मार्ग (समाज के किसी अंग विशेष जनसमूह में फैलते सामान्य जानसमूह के आवार ही इन पर हावी हो गये। समाज के किसी अंग विशेष कुँचा उठाने से समाज कुँचा नहीं उठ सकता जब तक कि सम्पूर्ण समाज को ही आमे न बढ़ाया जह सर्वाग विकास ही एक स्थायी विकास होता है। व्यक्ति के जीवन में यदि कोई पहलू अन्य पहलूओं से ब् आगे बढ़ जाए तथा अन्य को पीछे ही छोड़ दे या वे आगे बढ़ने के लिए प्रस्तुत न हों तो विकास एक होगा। कोई गुट या कोई दल अन्य समाज से बहुत आगे बढ़ जाता है तो जब तक वह बाकी न समाज अपने पीछे नहीं लगाता, तभी हो सकता है जबकि वे लोग स्वयं इसके लिये तैयार हों, तब तक वह र खतरे में रहता है, उसके समाप्त हो जाने की संभावनायें बराबर बनी रहती हैं। इस तरह व्यक्ति व समाज सभी के जीवन में सर्वांग विकास ही स्थायी विकास है। मानव समाज के सोपानों का श्री अ

\*सहायक आधार्य, दर्शनशास्त्र विभाग, सी.एम.पी. किग्री कालेज, इलाहाबाद विश्वविद्यालय, प्रयागराज



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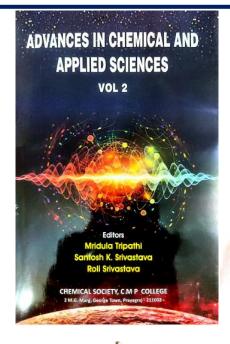
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al and Applied Sciences - Vol 2 in Chemical and App Mridula Tripathi Santosh K. Srivasta 978-93-88018-17-3

### Time Dilation: An Interesting Concept

Gyan Prakash\*

In special theory of relativity, Time dilation is very interesting concept and has very interesting predictions also. According to this theory, when a clock is moving with respect to an observer, the clock appears to run slower to an observer who is moving with respect to the clock than to an observer who is at set with respect to the clock. The result is observed as same whether clock is moving and observer is at rest or observer is moving and clock is at rest. It gives rise to very interesting phenomena like twin paradox and its impact on biological clock.

clock. To explain the time dilation, let us have two frames of reference S and S' and two observers O and O' at the origins of the above two frames. The Frame S' is moving with velocity to with respect to frame S along x-axis. Suppose a clock is kept at rest in the frame of reference S and some time interval, is measured from both the frames S and S. The frame S' is moving with velocity with respect to S along x-axis. It is found that clock appears to run slow from a moving observer (sitting in frame S) with respect to another observer sitting in frame S and at rest with the clock. This phenomenon is known as time dilation, in other words, we can say that the moving clocks run alow. The one tick of clock (let lake tick as one second duration) as seen by frame S is earlier (shorter than one second) than the one tick of the clock as seen by frame S; i.e. One second duration (one tick of clock) in S frame (where clock is kept) will appear to be clongated or dilated for the observer in moving frame S. This delay of the clock observed by moving frame is called as time dilation [Fig. 1].

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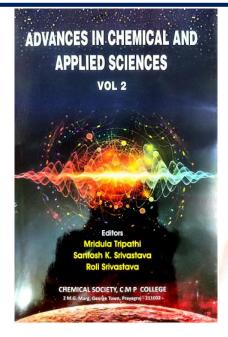
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### Advances in Chemical and Applied Sciences - Vol 2

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Study Of Swift Heavy Ion Irradiated Baf, Thin Films Surfaces Using Fractal Analysis

Savita1, Gulab Singh2, Anil Kumar2, R. P. Yadav 4, H. P. Bhasker', P.K. Priya', K. L. Pandey'and R.K. Anand

Abstract

The BaF, thin films were grown on Si <1 1 1> substrateusing electron beam evaporation technique at room temperature. The ion induced surface and structural modifications in the thin films are investigated as a function of ion fluences by atomic force microscopy (AFM) technique. The quantitative surface parameters such as roughness exponent, lateral correlation length and interface width are extracted for different samples using height-height correlation function and autocorrelation function. The computed value of interface width is found to be decreases as the ion fluences increased. The fractal dimension is computed by analyzing the roughness scaling exponents which falls within the range of 2.10 to 2.24 and strongly affected by the ion fluencies.

Barium fluoride (BaF<sub>2</sub>) is transparent material in the wavelength range from 150-200 mm to 11-11.5µm. This property makes it a suitable candidate for many optical components such as lenses, windows for infrared spectroscopy, fast scintillator detection of various ionization radiations like X-ray, gamma ray

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### डॉ० भीमराव अम्बेडकर के चिन्तन में सामाजिक न्याय

ভাঁত অকল কুমাৰ বৰ্ম ভাইতটো বালভিটি বিজ্ঞান চিলাত্ ব্যাহ্যক্ষপ্ৰায় বিজ্ঞা কাৰেল, হ্ৰমাল্যভা ইমান draruncmp1981@gmail.com

### शोध सारांश

सामाजिक न्याय की अवधारणा एक व्यापक अवधारणा है। हमारे लोकताक्रिक समाह में इरावत अर्थ और भी व्यापक हो जाता है क्योंकि स्वतंत्रता और समागता लोकतंत्र के दो प्रमुख अधार लाम्म है जिन पर सामाजिक न्याय विचार टिका हुआ है। बीठ अम्बेस्कर बी वह चेतावनी हमें याद करनी होगी जो उन्होंने राविधान समा में दी ही कि देश का उत्थान तभी सम्मव है तब सारे देशवासी कन्ये से कन्या मिलाजर बराबर चल और आप बढ़े। माख में पहले भी अपनी आजादी को अपने लोगों की धोवहादकी, देशदोह और आपसी पूट में स्वोधा था और आज भी हमारा समाज एक ऐसे मार्ग पर निरन्तर मतिशील हैं जो हमें एतिहासिक घटनाओं की माद दिलाता है। कि यदि हम परस्पर सहयोग बसुल एवं जापती सम्मान को मुलाकर सामाजिक विखान्द्रन पर आने बहेगे तो वह दिन दूर गई जब हम पुन उत्यो पराधीनता की जजीदों में जकह जायेंगे। प्रस्तुत भीम-पत्र में डीठ आब्देश्वर के सामाजिक न्याय से सम्बन्धित विवारों का विक्षेत्रण किया गया है।

संकेतासर - सामाजिक न्याय, लोकताजिक समाज, स्थतंत्रता, समानक, अस्त्र्यता, संविधान, मानवीय गरिना, लोकताजिक मृहव, सामाजिक विशानवा।

### शोध-पन्न

सामाजिक न्याय का विचार एक मतिशील विचार है, जिसने प्राचीन सामाजिक और राजनीतिक विन्तान से लंकर आधुनिक सामाजिक, आर्थिक और राजनीतिक विन्तान के निरुत्तर प्रभावित किया है। समकाशीन भारतीय समाज में यदि सामाजिक न्याय के कियन की बात की जाय तो हम डॉठ मीमराव अन्बेडकर के सामाजिक और आर्थिक विन्तान के अनदेखा नहीं कर सकते। की अन्बेडकर का जन्म महार नामक अमृत जाति में हुआ तथ उन्होंने आपी जीवन के आरमिश्च काल में अनेक विषम कठिनाड्यों का सामना किया जिससे उन्हें अनेक कर्नु सामाजिक अनुगव प्राप्त हुए। भारत में उनका जीवन सामाजिक सुधार के श्रेष्ठटम कार्य को समर्पित था, उन्होंने अपना सामूर्ण जीवन सामाजिक सहिवादिश जातिएका और अस्पृथ्यता को समाजिक करने के लिए समर्पित कर दिया। उनके जीवन साम

सामाजिक न्याय की अवधारणा एक व्यापक अवधारणा हैं। इमारे लोकसांत्रिक समाने में इस्कल अर्थ और भी व्यापक हो जाता है नवोंकि स्वाहत्रता और समानता लोकसंब के प्रे

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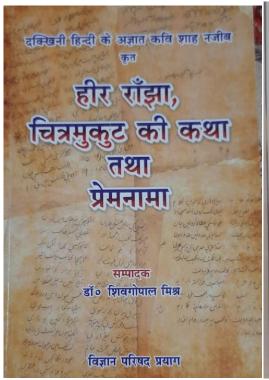




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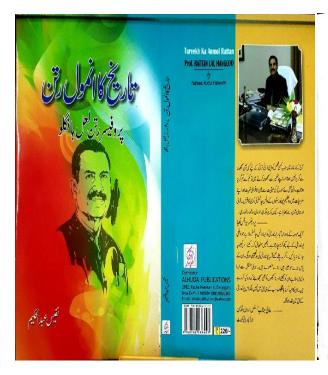
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Nafees Abdul Hakeem

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ازیان کی زیم کی میں بھین ہے جواتی ورجواتی ہے جو حالے تک متعددا فرادوا شخاص سے شاسا آل جو تی ے إراق بين إس شار أل اور مائے ك لي مشريق متعدد شنة بوت إلى ميكن انسان ان كى فينور كوكس والم فوستد اور كلى بإول فاخواسته فيها جربتاب سانسان درى الن سب مطنو والوراس متاثر موتا ے درندی ووسب طن والے اس کی زنرگ کے رُح کوشب راستوں کی طرف موریاتے ہیں۔ان شاس ۔ چندی ایسے قاتل فراد ہوتے ہیں جن سے اٹران ماڑ ہوتا ہے اور بہت کرد مکتنا ہے۔ ایسے تل افراد شن سے يكروفير مظفرت بري صاحب بين بجن عدى ذاتى خود يريت متاثر بوار

روفیر مظفر عامب کوان کی کت اور رسائل بین شائع ان کے مضامین کے حوالے ہے واقف ں۔ لیکن ذکی طور برمیری ان سے دو تین ماقات موٹی ہے۔ پہلی ملاقات 2010ء میں ہوڑی تھی۔ جب الى اسع ساقيدل كرساند مولانا أتراويكم اردوي في ورقى ويردة باديس والريش كرس براسك رايري اء كالن كرا لي الما قا قاليك ال يولى ورفي أف حيداً بالمراكب كلاق وال كراسا قد واور يسرين الكالرول ے دافات اول اواق اواق الر محك تا مالاك يون ادعب آدى يون الوكوں مے كم ملت جلت يور اس لے بہت دیاد، بات چیت کرنا مناسب تھی مجاارداس طرح برا والی کوئی تاڑ ندین پالدومری الماقات فرودى 4 ( 20 وش الل وقت جو كي جب وه كي الطيط على الداتيادات جوس تصاوراً والاحترام پروفیمرفی احد فالمح اصد سب کے والت کدو پران کا آیام تھا۔ اُسٹاد کے پہال قیام ہوئے کی وجہ سے ال سے

ور آل باربات كالداده أين، فوقي بادروجوان عدومكم الساط علما في الأوى دركرت يور بيادان كالمادات كاحد يحي أور بياد وبد يراوة كالوادوي كالم المادي آكريًا م كرات عن أثن وهواري مور في اوقي هرف دومرول كالديكاجة بدل عماد كم الا خالب علم يو إربس في اسكار شديري مدحب ين زاده فاكده حاصل كرح ين فيحتى خود يرسال طور ہے اوراد فیاطور مران سے ہر آیک کو صرف اور صرف فائدہ ہوتا ہے۔ شدمیر کی صاحب سے جب انجار کے مِن محى كونَ تَشْلَى إِنَّا اللهِ أَيْ وَجِائِ تُورِهِ مِنْ أَنْ جِاوِلِيَةٍ جِن سِيالَ كَمَّرَاتُ كَالْكِسَا يَمْ عَمْر ب جرافين مقروراتوں سے حفرہ عائے جس اجم رول اوا کرتے ہے۔

بولاگ شيري صاحب يراوناوكرت بين بدليش شيري ساحب ان سيب ق ا بي برناد كرت جي - جس كي موس ا حراوك ان عدمار وق بي اوران ك دل جي كي دوي كا

فديمر كاساحب كالفرش يتخاع حاكيدا برادر بيعالى عباتن الازت اكي فروياور ل جاراتهان کا کل ہے۔ ال کا سوخ کا دائر ہوگئے ہاں لیے دوائر الرائم سوخ ایسا۔ در ميري صاحب ايك كامياب السان وبت او يح بين حمن كالعاز واس بات عداكا بإجاسكات كدان كي طلیدوطالبات انین دصرف أمتاه اور صدر بعید کا حقیت سے بائد كرتے جي بكد أيك المائية كا ميكر كل الت بن ربيايك أستاد ك ليم كي تخديب كم يس بدب طلبه وطالبات كي توف باؤر كه مار ير يحل التي وكدان كاتخ بادرمتاب بادرش يرقعا حب كاشتنا زاعان بينواني ما زيوري كالتان يكالي الم ے جوانیں مدد واور ترقی والانا ہے۔ ووصرف محت اور بنائی کس میٹین رکھتے ہیں۔ یہ حیثیت انسان اُنگل و كَمَنا مِولَ أَيْلِ عِي جِوابِ وَبِينِ شِيراً مَا بِوومِ يُرتِينِ فِي الرونيا مُن جِنِّهِ النَّالِ مُن شَيّ يري مد حب جيراصاف ول «جم ول «مجا انسان اس دفل وفيا عن ستانا مكن سني»

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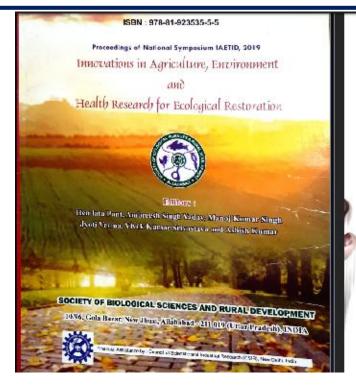




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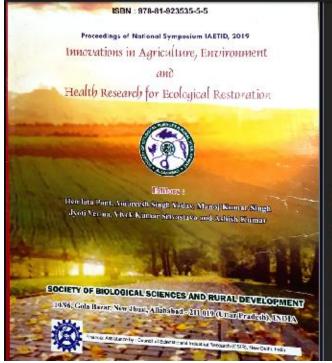
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