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Magnetic Ferrites-Based Hybrids Structures for the Heavy Metal Removal

[Muhammad Khawar Abbas](#), [Effat Yasin](#), [Muhammad Munir Sajid](#), [Naveed Akhtar Shad](#), [Kanwal Akhtar](#), [Anita Manhas](#), [Surender K. Sharma](#) & [Yasir Javed](#)

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Abstract

Adsorption is a major process for heavy metal removal and the research trend is focused toward the applications of new technologies in order to intensify the already existing processes. Intrinsic properties of magnetic materials (arrangement and surface-to-volume ratio) of adsorbate and adsorbent are critical for satisfactory results. Magnetic field strength plays an important role as it indicates the alignment of spins with the magnetic field to provide adsorbate mobility and generate heterogeneity at adsorbent surface. Applications of magnetic field for intensification of adsorption process provide environment friendly, safe and economic alternative. This chapter describes different types of magnetic ferrites-based hybrids for heavy metal removal. Surface modification of magnetic nanohybrids through different

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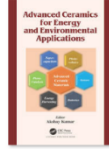
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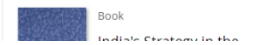


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14.4. Conclusion and perspectives

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Chapter 14 - Potential clinical application of lncRNAs in pediatric cancer

Ravindresh Chhabra¹, Priyasha Neyol¹, Sonali Bazala², Ipsa Singh², Masang Murmu², Uttam Sharma², Tushar Singh Barwal², Aklank Jain²

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Modern Applications of Ferrites: An Important Class of Ferrimagnetic System

Gabriel Alves Gomes, Kanwal Akhtar, Gisela Lara da Costa, Yasir Javed & Surender K. Sharma

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Abstract

Magnetic nanoparticles (MNPs) have been used in engineering applications for different purposes in the last few decades, increasing their relevance recently on biomedical studies, with alternative treatments to most complex diseases, and microelectronic fields, as an excellent way to improve aspects such as thermal and electric conductivity. The use of

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- 9.6. Future prospective
- 9.7. Conclusion

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Chapter 9 - Chemical and physical properties of nanoparticles and hybrid materials

Renuka Gupta ^a, Heena Chauhan ^b, Vinod Kumar Garg ^b, Navish Kataria ^b

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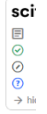
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Sumit Jamwal^a, Puneet Kumar^b, Vandita Kakkar^c, Parina Kumari^c, Simerjeet Kaur Chahal^d

^a Department of Psychiatry, Yale School of Medicine, Yale University, New Haven, CT, United States

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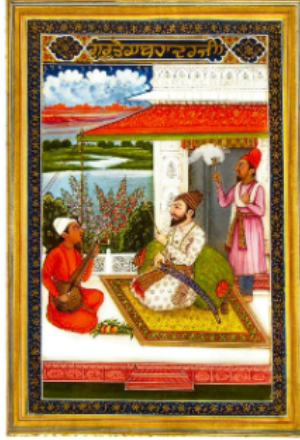
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Methods to Detect Nitric Oxide and Reactive Nitrogen Species in Biological Sample

[Sharanjot Kaur](#), [Kunj Bihari Gupta](#), [Sandeep Kumar](#), [Shishir Upadhyay](#), [Anil Kumar Mantha](#) & [Monisha Dhiman](#) 


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Abstract

Oxidative stress has been implicated in various human diseases, including cancer, mainly through the generation of reactive nitrogen species (RNS), such as nitric oxide (NO), nitrite, nitroxy, s-nitrosothiols, and reactive oxygen species (ROS) such as peroxides, superoxide, and hydroxyl radicals. NO being the main player among RNS induced altered cellular molecules and metabolisms, thus making it important to understand and detect the generation of NO in biological samples. There are many methods for direct and indirect detection of NO; out of

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Chapter 15 - Self-assembled nanomaterials for cleansing and bioremediation

Ravishankar Kumar¹, Sachin Vaidh², Dharni Parekh², Nikita Vasoya², Milika Shah², Gajendra Singh Vishwakarma²

- ¹ Department of Environmental Science and Technology, Central University of Punjab, Bathinda, Punjab, India
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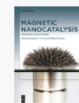
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AIP Conference Proceedings 2435, 020027 (2022); <https://doi.org/10.1063/5.0083653>

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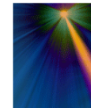


TOPICS

- Soliton solutions
- Korteweg-de Vries equation
- Kudryashov method

ABSTRACT

In this paper, we investigate the (2+1) and (3+1)-dimensional Korteweg-de Vries (KdV) and modified Korteweg-de Vries (mKdV) equations. Firstly these equations are converted into ordinary differential equations via traveling wave transformations. Then bright and singular soliton solutions are derived via new version of kudryashov method.





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Anita Manhas, Mahavir Singh, Muhammad Irfan Hussain, Yasir Javed & Surender K. Sharma 


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A colubrid snake from the late Miocene of Kutch, Gujarat, India

NINGTHOUJAM PREMJI^{1,3}, NONGMAITHEM AMARDAS SINGH², K. MILANKUMAR SHARMA^{2*}, RAJEEV PATNAIK¹, YUMLEMBAM PRIYANANDA SINGH² & DEEPAK CHAUDHARY¹

JPSI



Fossil snakes are extremely rare in the Indian Neogene records. We report the first record of isolated prelocaal vertebrae of a "colubrine" snake from a late Miocene site, Tapar section in Kutch, Gujarat (India). The present specimens differ from the earlier finding of a colubrid from a younger deposit of Labli Member, Utterbaini Formation of Upper Siwaliks (Jammu and Kashmir) by the absence of hyapophyses. The "colubrine" snakes of late Miocene (~11-10 Ma) perhaps lived in a relatively wetter environment compared to the present "colubrine" from Kutch.

ARTICLE HISTORY

Manuscript received: 03/07/2020
Manuscript accepted: 22/05/2021

Keywords: Colubrinae, Snake, Miocene, Palaeoecology, Kutch.

¹Wadia Institute of Himalayan Geology, Dehradun-248001, India; ²Department of Geology, Central University of Punjab, Bathinda-151401, India; ³Department of Geology (CAS), Panjab University, Chandigarh-160014; *Corresponding author's e-mail: milankumar.sharma@gmail.com

INTRODUCTION

to Pleistocene (Biswas, 1992). The tertiary sediments were



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[Gopal Niraula](#), [Mohan Chandra Mathpal](#), [Edher Z. Herrera](#), [Maria A. G. Soler](#), [Jose A. H. Coaquira](#) & [Surender K. Sharma](#) 

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Social media networks such as Facebook and Twitter are overwhelmed with COVID-19-related posts during the outbreak. People have also posted several fake news among the massive COVID-19-related social media posts. Fake news has the potential to create public fear, weaken government credibility, and pose a serious threat to social order. This paper provides a deep ensemble-based method for detecting COVID-19 fake news. An ensemble classifier is made up of three different classifiers: Support Vector Machine, Dense Neural Network, and Convolutional Neural Network. The extensive experiments with the proposed ensemble model and eight different conventional machine learning classifiers are carried out using the character and word n-gram TF-IDF features. The results of the experiments show that character n-gram features outperform

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Arctic region is at the forefront of climate crisis; this is where the planet is warming maximally and the effects of climate change are most obvious. In this review, we introduce the topic in broader perspective by discussing first on why Arctic biodiversity



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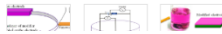
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Chapter 18 - Electrode modification and its application in microbial electrolysis cell

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Abstract

The microbial electrolysis cell (MEC) is a sustainable technology that degrades organic substrate to produce hydrogen, an important energy carrier. However, its large-scale practical application is hampered because of several factors including electrodes material, reactor designs, substrates, and high-cost catalysts. Electrodes in particular are fundamental components which determine redox reaction and transport of electric

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Sanveena, Gagan Kumar, Neha Konda, Mahavir Singh & Surender K. Sharma Chapter | [First Online: 30 October 2021](#)Part of the [Topics in Mining, Metallurgy and Materials Engineering](#) book series (TMMME)

Abstract

Nanoferrites are found to showcase superior and substantially distinct properties due to the ease with which they can be synthesized and modified chemically. The nanoparticles are synthesized by various methods classified primarily into two categories: top-down and bottom-up methods. Wet chemical synthesis methods offer unlimited control over size distribution and shape of nanoparticles and provide the opportunity of scale-up for

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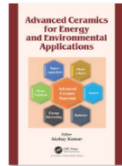
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ABSTRACT

We scrutinize geometry of TU screen-transversal(ST) lightlike submanifolds. Two classes, TU radical ST lightlike submanifolds and TU ST anti-invariant lightlike submanifolds, are studied. The necessary and sufficient conditions for the distributions to be integrable and





Chapter

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- 3.7. Biofilm-surface layer protein
- 3.8. GlcNAc-Binding protein A
- 3.9. Techniques to extract extracellular matrix fro...
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Chapter 3 - Biofilm matrix proteins

Surbhi Sharma¹, Mukesh Meena², Avinash Marwal³, Prashant Swapnil^{4,5}

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Biofilms are aggregates of diverse communities of microorganisms that are attached to living or inert surfaces. Microorganisms attach irreversibly to various surfaces and produce many extracellular polymers, which facilitate their growth, resulting in a matrix formation. The extracellular components, which make up the biofilm matrix, are primarily composed of water, proteins, nucleic acids, lipids, exopolysaccharides, and various other biopolymers that can vary depending on the microorganisms and different

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This chapter aims at providing a better understanding of soft ferrites and their role in ultra-high-frequency applications. In wireless communication industry trends of miniaturized, highly efficient and wide-band antenna become the new research areas of the antenna technology. Antenna miniaturization cannot be achieved by simply changing the structural design, and it is important to improve the material characteristics of antenna substrates. Furthermore, to

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Noise Estimation Using Back Propagation Neural Networks

D. Singh¹ and A. Kaur²
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Abstract

In this paper, a new Backpropagation Neural Network-based noise estimation method is proposed to estimate Rician noise from MRI images. To train BNN features of MRI images such as contrast, homogeneity, dissimilarity, asm, energy, entropy, mean x, mean y, mean glcm, var x, var y, var glcm, correlation, skew x, skew y, skew, kurtosis x, kurtosis y, kurtosis, etc. are used. For training BNN, 450 images are used which are downloaded from BrainWeb.

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We report the paper related to the effect of Fe doping on the $\text{Li}_2\text{Fe}_x\text{Mn}_{1-x}\text{SiO}_4$ ($x = 0, 0.1, 0.2, 0.3, 0.4, 0.5$) cathode materials synthesized by Sol-Gel technique. X-Ray Diffraction evidences the monoclinic structure with space group $Pn(7)$ and crystal size decreases from 43 to 35 nm on doping Fe in $\text{Li}_2\text{MnSiO}_4$. Field emission scanning electron microscopy (FESEM) confirms that particle size reduces from 60 to 21 nm with increase of Fe concentration. The impedance

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7.10. Conclusions

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Abstract

Agricultural runoff is one of the main factors that introduces pesticide residue into water. Common pesticides such as DEET(*N,N*-diethyl-*meta*-toluamide), DDT(dichloro diphenyl trichloroethane), metolachlor, malathion, etc., have continuously contaminated water

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Synthetic chemicals were used as pesticides for killing numerous pests. There are various classes in which insecticides are one of the types which are responsible for causing dangerous effect on human beings. Due to their efficacy, these insecticides gained popularity, and easy access has made them popular among farmers. Chlorpyrifos is a type of insecticide having

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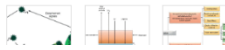
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Abstract

Biofilters or biological filters are a technology that uses attached biomass on a media to degrade and remove pollutants from the air, water, and wastewater treatment plants. They are natural systems which are engineered and simulated to remove a varied range of contaminants, that is, organic matter, suspended solids, natural organic matter, and organic micropollutants. Biofiltration systems are popular among wastewater treatment

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Bageshree Bageshwar
Central University of Punjab

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Central University of Punjab

Date Written: February 5, 2022

Abstract

The COVID-19 pandemic has challenged and forced teachers to explore innovative ways of online teaching. The present study reviews published studies on the use of various emerging teaching tools in English Language Teaching (ELT) in India. It aims to explore the patterns of their use, the knowledge of which can facilitate improved integration of suitable Internet-enabled technology in ELT. The researchers selected 50 India-based research studies on the efficacy of technology in ELT, published between 2016 and 2020. The following categories were identified for investigation: target language skills, the technology used, and conclusions of the selected studies. Manual coding through theme-based labelling and grouping of such codes for identification of these categories was carried out. Additionally, a corpus of the selected research articles was collected using AntConc software to facilitate an exploration of KWIC (Key Word In Context) related to the use of technology. The results revealed that the researchers concentrated on improving speaking, writing, reading, and listening, along with vocabulary and grammar through the use of technologies such as Google Classroom, YouTube, WhatsApp, Facebook, and video conferencing. The

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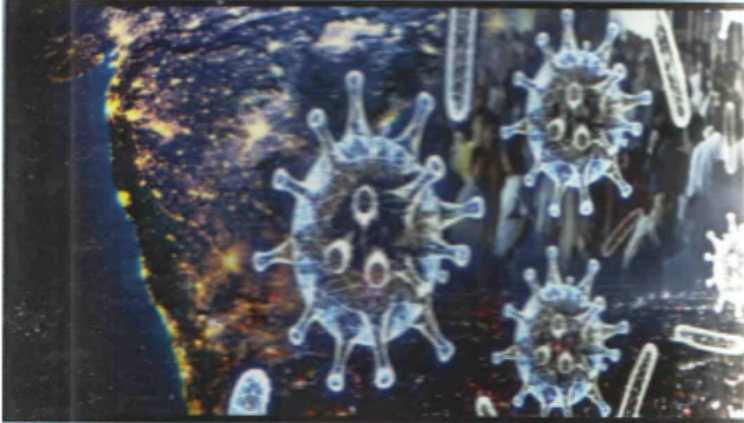
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