Index Page

3.4.5. Bibliometrics of the publications during the last five years based on average Citation index in Scopus/ Web of Science (5)

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Documents

Harish, B., Dakshinamurthy, N.R., Sridhar, M., Rao, K.J.

A study on mechanical properties of high strength concrete with alccofine as partial replacement of cement
(2022) *Materials Today: Proceedings*, 52, pp. 1201-1210. Cited 3 times.

2-s2.0-85127441951
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

Scopus

Documents

Mupparisetty, V.K.R., Mohammed, F.A.

Crushed stone dust as a replacement for river sand in self compacting repair mortars - A sustainable solution
(2022) *Materials Today: Proceedings*, 52, pp. 1168-1174. Cited 1 time.

2-s2.0-85127374028
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

Scopus

Documents

Gunda, P., Anthugari, V.

Optimization of location of outrigger system in tall buildings of different aspect ratios
(2022) *Materials Today: Proceedings*, 52, pp. 588-598. Cited 1 time.

2-s2.0-85127407967
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

Scopus

Documents

Kusuma, Y., Rashmi, T., Anand, V.N., Balaji, N.C.

An experimental study on flexural performance of RC beams strengthened by NSM technique using GFRP strips for a resilient infrastructure system
(2022) *Materials Today: Proceedings*, 52, pp. 1959-1967. Cited 1 time.

2-s2.0-85127407028
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

Scopus

Documents

Sushma Chinta, V., Ravinder Reddy, P., Eshwar Prasad, K.

Experimental investigation of high cycle fatigue life of jute fibre reinforced hybrid composite material for axial flow fan blades
(2022) *Materials Today: Proceedings*, 59, pp. 357-367. Cited 1 time.

2-s2.0-85130841915
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Praveen, H.M., Sabareesh, G.R., Inturi, V., Jaikanth, A.

Component level signal segmentation method for multi-component fault detection in a wind turbine gearbox
(2022) *Measurement: Journal of the International Measurement Confederation*, 195, art. no. 111180, . Cited 2 times.

2-s2.0-85129432555
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Vamsi, I., Hemanth, M.P., Kumar Penumakala, P., Sabareesh, G.R.

Damage monitoring of pultruded GFRP composites using wavelet transform of vibration signals
(2022) *Measurement: Journal of the International Measurement Confederation*, 195, art. no. 111177, . Cited 2 times.

2-s2.0-85128431604
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Kandula, J., Usha Sri, P., Ravinder Reddy, P., Gugulothu, S.K.

Numerical and experimental evaluation of near-wake cavitation flow around axisymmetric cavitators
(2022) *Ships and Offshore Structures*, 17 (5), pp. 1042-1052. Cited 1 time.

2-s2.0-85130788486
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Pichika, S.V.V.S.N., Yadav, R., Geetha Rajasekharan, S., Praveen, H.M., Inturi, V.

Optimal sensor placement for identifying multi-component failures in a wind turbine gearbox using integrated condition monitoring scheme
(2022) *Applied Acoustics*, 187, art. no. 108505, . Cited 5 times.

2-s2.0-85119086382
Document Type: Article
Publication Stage: Final
Source: Scopus

Optimal sensor placement for identifying multi-component failures in a wind turbine gearbox using integrated condition monitoring scheme

By: Pichika, S. V. V. S. Narayana (Pichika, S. V. V. S. Narayana) ; Yadav, Ruchir (Yadav, Ruchir) ; Rajasekharan, Sabareesh Geetha (Rajasekharan, Sabareesh Geetha) ; Praveen, Hemanth Mithun (Praveen, Hemanth Mithun) ; Inturi, Vamsi (Inturi, Vamsi)

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APPLIED ACOUSTICS

Volume: 187
Article Number: 108505
DOI: 10.1016/j.apacoust.2021.108505
Published: FEB 2022
Early Access: NOV 2021
Indexed: 2021-12-18
Document Type: Article

Abstract

Wind turbine gearbox has a high failure frequency and downtime, and therefore, several sensors are installed to perform condition monitoring to reduce the operation and maintenance costs. A gearbox can have infinite sensor nodal positions, but, in reality, the positioning of sensors is limited to a finite number of locations. Also, sensor location influences the quality of the data captured by the sensors, which is of key importance in a condition monitoring system. Hence selection of optimal sensor place -ment (OSP) is a challenging task which needs to be addressed. When the sensor type changes, the mea-surement response changes, and hence the OSP methodologies based on the measured responses may not work well. For addressing this, an optimization method based on statistical features is proposed to find the optimum sensor placement (OSP). In order to evaluate the effectiveness of the proposed method, experiments are conducted on a laboratory scale model of wind turbine gearbox considering multi-component faults and an integrated condition monitoring scheme. Variational mode decomposition and the Spearmen correlation coefficient are used to processes raw acoustic and vibration signals. Feature

Scopus

Documents

Vemula, A.M., Chandra Mohan Reddy, G., Manzoor Hussain, M., Kumar, A., Kumar, N., Allasi, H.L.

Post-Surface Processing and Virtual Simulation Analysis of Ball-Punch Test on CP-Ti Material
(2022) *Advances in Materials Science and Engineering*, 2022, art. no. 5625427, . Cited 1 time.

2-s2.0-85127003872
Document Type: Article
Publication Stage: Final
Source: Scopus

Post-Surface Processing and Virtual Simulation Analysis of Ball-Punch Test on CP-Ti Material

By: Vemula, Ananda Mohan (Vemula, Ananda Mohan) ; Reddy, G. Chandra Mohan (Reddy, G. Chandra Mohan) ; Hussain, M. Manzoor (Hussain, M. Manzoor) ; Kumar, Atul (Kumar, Atul) ; Kumar, Naresh (Kumar, Naresh) ; Allasi, Haiter Lenin (Allasi, Haiter Lenin)

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ADVANCES IN MATERIALS SCIENCE AND ENGINEERING

Volume: 2022
Article Number: 5625427
DOI: 10.1155/2022/5625427
Published: MAR 11 2022
Indexed: 2022-04-17
Document Type: Article

Abstract

The titanium alloy is one of the prime materials for many engineering applications. It has been recommended for the components in automotive engines, power sector, biomedical industries, and more applications. It is due to the unique properties of the material with good strength and corrosion resistance. However, it is very challenging to handle Ti-based materials in manufacturing sectors without damaging the metallurgical quality. Thus, an attempt made to study the deformability of the CP-Ti material through ball-punch test to represent the stress, strain, and formability limit during mechanical loading and plastic deformation. The experiments are conducted following the ASTM E643 standards to study the material behavior. The maximum cupping reached to a height of 8.69 mm and got teared at the peak of doom. The separation has induced grain detachment due to tensile loading. The same condition is used to simulate with PAM STAMP (TM) software and 8.48 mm is the maximum cupping height achieved. The different is 0.21 mm. The results are interesting with similar observations and found acceptable to study the deformation.

Keywords

Scopus

Documents

Chinta, V.S., Ravinder Reddy, P., Prasad, K.E.

The effect of stacking sequence on the tensile properties of jute fibre reinforced hybrid composite material for axial flow fan blades: An experimental and finite element investigation
(2022) *Materials Today: Proceedings*, 59, pp. 747-755. Cited 1 time.

2-s2.0-85128953643
Document Type: Article
Publication Stage: Final
Source: Scopus

Damage monitoring of pultruded GFRP composites using wavelet transform of vibration signals

By: Vamsi, Inturi (Vamsi, Inturi) ; Hemanth, M. P. (Hemanth, M. P.) ; Penumakala, Pavan Kumar (Penumakala, Pavan Kumar) ; Sabareesh, G. R. (Sabareesh, G. R.)

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MEASUREMENT

Volume: 195
Article Number: 111177
DOI: 10.1016/j.measurement.2022.111177
Published: MAY 31 2022
Indexed: 2022-06-02
Document Type: Article

Abstract

A statistical procedure is presented for monitoring the damage of pultruded specimens using vibration data. Pultruded composite samples are processed by using continuous glass fiber rovings and epoxy matrix. Two different types of damages, a notch in the top layer and a hole at the midsection has been introduced individually in these samples. Vibration signals from healthy and damaged samples are processed using wavelet transform. various time-frequency domain statistical features have been extracted. Also, the time-domain features have been computed from the raw amplitude data. Further, both these features have been exploited to construct the feature space and significant features have been identified by evaluating the contribution rates. Finally, significant feature set is channeled as input to various machine-learning classifiers (deep neural network and support vector machine) and different classification accuracies have been estimated. The capability of these methods to early detect the damage in pultruded composites has been discussed.

Keywords

Energies • Open Access • Volume 15, Issue 1 • January-1 2022 • Article number 361

A Robust Fractional-Order PID Controller Based Load Frequency Control Using Modified Hunger Games Search Optimizer

Fathy, Ahmed[a] ; Yousri, Dalia[b] ; Rezk, Hegazy[c, d] ;
Thanikanti, Sudhakar Babu[e] ; Hasanien, Hany M.[f]
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[a] Electrical Engineering Department, Faculty of Engineering, Jouf University, Sakaka, 42421, Saudi Arabia
[b] Department of Electrical Engineering, Faculty of Engineering, Fayoum University, Fayoum, 63514, Egypt
[c] College of Engineering at Wadi Addawaser, Prince Sattam Bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia
[d] Electrical Engineering Department, Faculty of Engineering, Minia University, Minia, 61519, Egypt
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A Practical Approach for Predicting Power in a Small-Scale Off-Grid Photovoltaic System using Machine Learning Algorithms

Patel, Aadyasha[a] ; Swathika, O. V. Gnana[a] ;
Subramaniam, Umashankar[b, c] ; Babu, T. Sudhakar[d] ;
Tripathi, Alok[a] ; Nag, Samriddha[a] ; Karthick, Alagar[c] ;
Muhibbullah M.[f]
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[a] School of Electrical Engineering, VIT Chennai, Chennai, 600127, India
[b] Department of Communications and Networks, Renewable Energy Laboratory, College of Engineering, Prince Sultan University, Riyadh, 11586, Saudi Arabia
[c] Department of Energy and Environmental Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Saveetha Nagar, Thandalam, Tamilnadu, Chennai, 602105, India
[d] Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, 500075, India
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Charge Scheduling Optimization of Plug-In Electric Vehicle in a PV Powered Grid-Connected Charging Station Based on Day-Ahead Solar Energy Forecasting in Australia

Sheik Mohammed S.[a] ; Titus, Femin[b] ;
Thanikanti, Sudhakar Babu[c] ; Sulaiman S.M.[d] ;
Deb, Sanchari[e] ; Kumar, Nallapaneni Manoj[f]
Save all to author list

[a] Electrical and Electronic Engineering Programme Area, Faculty of Engineering, Universiti Teknologi Brunei, Bandar Seri Begawan, BE1410, Brunei Darussalam

[b] Department of Electrical and Electronics Engineering, TKM College of Engineering, Kerala, Kollam, 691005, India

[c] Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology, Telangana, Hyderabad, 500075, India

[d] Department of Computer Science and Engineering, Kalasalingam Academy of Research and Education, Tamil Nādu, Srivilliputhur, 626128, India

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Design of Uplink and Downlink Triple Band π: Slot Antennas for Simultaneous Communication

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Rajeshwar Goud Jangampally; Venkata Koteswara Rao Nalam; Mallikarjun

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A novel and compact triple band two element Multiple Input Multiple Output (MIMO) antenna array is designed to provide simultaneous communications for uplink and downlink which covers GSM, LTE and sub-6 base station applications. The proposed MIMO system is a configuration of four [illegible]

AUTHORS

Jangampally Rajeshwar Goud; Nalam Venkata Koteswara Rao; Avala Ma[illegible]

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Ramana Reddy, B., Indiramma, M.

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Deep Learning Regression-Based Retinal Layer Segmentation Process for Early Diagnosis of Retinal Anamolies and Secure Data Transmission through ThingSpeak
(2022) *Mobile Information Systems*, 2022, art. no. 8960132, .

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Gopalachari, M.V., Kolla, M., Mishra, R.K., Tasneem, Z.

Design and Implementation of Brain Tumor Segmentation and Detection Using a Novel Woelfel Filter and Morphological Segmentation
(2022) *Complexity*, 2022, art. no. 6985927, . Cited 1 time.

2-s2.0-85133969941
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Kolla, Morarjee

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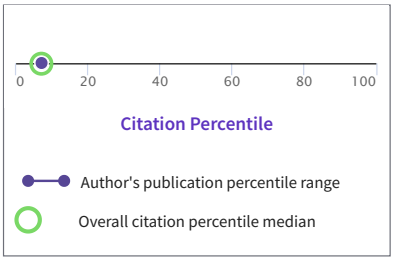

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(2022) *Computational Intelligence and Neuroscience*, 2022, art. no. 9015778, . Cited 1 time.

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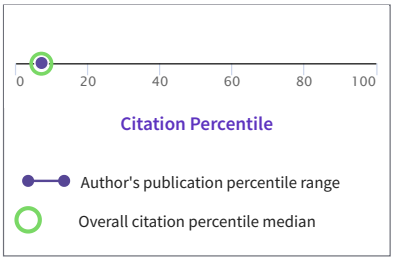

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(2022) *International Journal of Mechanical Engineering*, 7 (1), pp. 2823-2827.

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(2022) *International Journal of Advanced Computer Science and Applications*, 13 (4), pp. 224-231.

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BENS-B5G: Blockchain-Enabled Network Slicing in 5G and Beyond-5G (B5G) Networks

By: Singh, Saurabh (Singh, Saurabh) ; Babu, C. Rajesh (Babu, C. Rajesh) ; Ramana, Kadiyala (Ramana, Kadiyala) ; Ra, In-Ho (Ra, In-Ho) ; Yoon, Byungun (Yoon, Byungun)

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SENSORS

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Abstract

Fifth-generation (5G) technology is anticipated to allow a slew of novel applications across a variety of industries. The wireless communication of the 5G and Beyond-5G (B5G) networks will accommodate a wide variety of services and user expectations, including intense end-user connectivity, sub-1 ms delay, and a transmission rate of 100 Gbps. Network slicing is envisioned as an appropriate technique that can meet these disparate requirements. The intrinsic qualities of a blockchain, which has lately acquired prominence, mean that it is critical for the 5G network and B5G networks. In particular, the incorporation of blockchain technology into B5G enables the network to effectively monitor and control resource utilization and sharing. Using blockchain technology, a network-slicing architecture referred to as the Blockchain Consensus Framework is introduced that allows resource providers to dynamically contract resources, especially the radio access network (RAN) schedule, to guarantee that their end-to-end services are effortlessly executed. The core of our methodology is comprehensive service procurement, which offers the fine-grained adaptive allocation of resources through a blockchain-based consensus mechanism. Our objective is to have Primary User-Secondary User (PU-SU) interactions with a variety of services, while minimizing the operation and maintenance costs of the 5G service providers. A Blockchain-Enabled Network Slicing Model (BENS), which is a learning-based algorithm, is incorporated to handle the spectrum resource allocation in a sophisticate manner. The performance and inferences of the proposed work are analyzed in detail.

Keywords

Scopus

Documents

Rakesh, S.[a] , Hegde, N.P.[b]

A Framework for Intelligent Traffic Control System
(2022) *International Journal of Engineering Trends and Technology*, 70 (7), pp. 88-93. Cited 1 time.

DOI: 10.14445/22315381/IJETT-V70I7P210

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Abstract
Recently, traffic congestion has been among the significant problems encountered by many large cities worldwide. The reasons for the traffic congestion are the hasty increase of motor vehicles and inadequate roadways to accommodate a large number of vehicles. Many researchers find the traffic density by applying edge detection (ED), moving object detection (MOD), and frame differencing techniques separately. However, the edge detection method detects the edges for static images and the MOD method finds the traffic density when vehicles are moving. Actually, in real-time, when the red signal is on a traffic junction, the vehicles are in an idle state; this situation is better to apply the ED method. When the green signal is on, vehicles immediately start moving; this situation is best suitable for applying the MOD method to find the real-time traffic density. This paper illustrates a novel technique named Edge Detection and Moving Object Detection (EDMOD) algorithm, which uses ED and MOD approaches to find the real-time area-wide density of the traffic at the traffic light junction by dividing the Region of Interest (ROI) into two regions. It uses ED in region1 and MOD in region2. © 2022 Seventh Sense Research Group®.

Author Keywords
Edge Detection; Image processing; Moving Object Detection; Traffic density

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Autonomous Vehicles and Intelligent Automation: Applications, Challenges, and Opportunities

By: Bathla, Gourav (Bathla, Gourav) ; Bhadane, Kishor (Bhadane, Kishor) ; Singh, Rahul Kumar (Singh, Rahul Kumar) ; Kumar, Rajneesh (Kumar, Rajneesh) ; Aluvalu, Rajanikanth (Aluvalu, Rajanikanth) ; Krishnamurthi, Rajalakshmi (Krishnamurthi, Rajalakshmi) ; Kumar, Adarsh (Kumar, Adarsh) ; Thakur, R. N. (Thakur, R. N.) ; Basheer, Shakila (Basheer, Shakila)

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MOBILE INFORMATION SYSTEMS

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Abstract

Intelligent Automation (IA) in automobiles combines robotic process automation and artificial intelligence, allowing digital transformation in autonomous vehicles. IA can completely replace humans with automation with better safety and intelligent movement of vehicles. This work surveys those recent methodologies and their comparative analysis, which use artificial intelligence, machine learning, and IoT in autonomous vehicles. With the shift from manual to automation, there is a need to understand risk mitigation technologies. Thus, this work surveys the safety standards and challenges associated with autonomous vehicles in context of object detection, cybersecurity, and V2X privacy. Additionally, the conceptual autonomous technology risks and benefits are listed to study the consideration of artificial intelligence as an

essential factor in handling futuristic vehicles. Researchers and organizations are innovating efficient tools and frameworks for autonomous vehicles. In this survey, in-depth analysis of design techniques of intelligent tools and frameworks for AI and IoT-based autonomous vehicles was conducted. Furthermore, autonomous electric vehicle functionality is also covered with its applications. The real-life applications of autonomous truck, bus, car, shuttle, helicopter, rover, and underground vehicles in various countries and organizations are elaborated. Furthermore, the applications of autonomous vehicles in the supply chain management and manufacturing industry are included in this survey. The advancements in autonomous vehicles technology using machine learning, deep learning, reinforcement learning, statistical techniques, and IoT are presented with comparative analysis. The important future directions are offered in order to indicate areas of potential study that may be carried out in order to enhance autonomous cars in the future.

Keywords

Keywords Plus: ARTIFICIAL-INTELLIGENCE; SECURITY; SAFETY; FRAMEWORK; DRIVEN; INTERNET; SYSTEMS; MODEL; IOT

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Research Areas: Computer Science; Telecommunications

Citation Topics : 4 Electrical Engineering, Electronics & Computer Science › 4.13 Telecommunications › 4.13.896 Vehicular ad hoc Networks

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Documents

Bathla, G.[a] , Bhadane, K.[b] , Singh, R.K.[a] , Kumar, R.[c] , Aluvalu, R.[d] , Krishnamurthi, R.[e] , Kumar, A.[a] , Thakur, R.N.[f] , Basheer, S.[g]

Autonomous Vehicles and Intelligent Automation: Applications, Challenges, and Opportunities

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DOI: 10.1155/2022/7632892

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Abstract
Intelligent Automation (IA) in automobiles combines robotic process automation and artificial intelligence, allowing digital transformation in autonomous vehicles. IA can completely replace humans with automation with better safety and intelligent movement of vehicles. This work surveys those recent methodologies and their comparative analysis, which use artificial intelligence, machine learning, and IoT in autonomous vehicles. With the shift from manual to automation, there is a need to understand risk mitigation technologies. Thus, this work surveys the safety standards and challenges associated with autonomous vehicles in context of object detection, cybersecurity, and V2X privacy. Additionally, the conceptual autonomous technology risks and benefits are listed to study the consideration of artificial intelligence as an essential factor in handling futuristic vehicles. Researchers and organizations are innovating efficient tools and frameworks for autonomous vehicles. In this survey, in-depth analysis of design techniques of intelligent tools and frameworks for AI and IoT-based autonomous vehicles was conducted. Furthermore, autonomous electric vehicle functionality is also covered with its applications. The real-life applications of autonomous truck, bus, car, shuttle, helicopter, rover, and underground vehicles in various countries and organizations are elaborated. Furthermore, the applications of autonomous vehicles in the supply chain management and manufacturing industry are included in this survey. The advancements in autonomous vehicles technology using machine learning, deep learning, reinforcement learning, statistical techniques, and IoT are presented with comparative analysis. The important future directions are offered in order to indicate areas of potential study that may be carried out in order to enhance autonomous cars in the future. © 2022 Gourav Bathla et al.

Index Keywords
Autonomous vehicles, Deep learning, Internet of things, Object detection, Reinforcement learning, Safety engineering, Supply chain management; Automation applications, Autonomous Vehicles, Comparative analyzes, Digital transformation, Intelligent automation, Machine-learning, Process automation, Risk mitigation, Safety standard, Vehicles automations; Surveys

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Leaf Disease Classification in Smart Agriculture using Deep Neural Network Architecture and IoT

By: Ramana, Kadiyala (Ramana, Kadiyala) ; Aluvala, Rajanikanth (Aluvala, Rajanikanth) ; Kumar, Madapuri Rudra (Kumar, Madapuri Rudra) ; Nagaraja, G. (Nagaraja, G.) ; Krishna, Akula Vijaya (Krishna, Akula Vijaya) ; Nagendra, Pidugu (Nagendra, Pidugu)

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Abstract

The Internet of Things (IoT) is bringing a new dimension to the smart farming market. This helps the user to collect the data from the agricultural fields in real time and move it to remote areas for processing. With the available sensor data and the image taken from the fields, automated disease prediction is possible. Deep neural network is used for classification of disease using the leaf images. Agriculture is the backbone of our country, but our output is poor when compared to the global standards due to lack of using technologies in the fields. In this work, various sensors like humidity sensor, pH level monitoring sensor, Temperature sensor, and Soil moisture sensor are used in the agricultural fields for collecting the real-time data. Multiple Sensors are installed in various locations of farms with one common controller Raspberry PI 3 module (RPI3), which

was used to control all these sensors. Camera interfacing with RPI can be observed on leaf disease. Convolutional neural network architecture is used for leaf disease detection and classification. The accuracy of the disease classification system using convolutional neural network is 96% when the system is iterated for 50 epochs.

Keywords

Author Keywords: Smart agriculture; IOT in smart farming; disease classification; convolutional neural network; sensor data for agriculture

Keywords Plus: INTERNET; SENSOR; THINGS

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Research Areas: Computer Science; Engineering

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Ramana, K.[a] , Aluvala, R.[a] , Kumar, M.R.[b] , Nagaraja, G.[c] , Krishna, A.V.[d] , Nagendra, P.[e]

Leaf Disease Classification in Smart Agriculture Using Deep Neural Network Architecture and IoT
(2022) *Journal of Circuits, Systems and Computers*, 31 (15), art. no. 2240004, . Cited 1 time.

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Abstract
The Internet of Things (IoT) is bringing a new dimension to the smart farming market. This helps the user to collect the data from the agricultural fields in real time and move it to remote areas for processing. With the available sensor data and the image taken from the fields, automated disease prediction is possible. Deep neural network is used for classification of disease using the leaf images. Agriculture is the backbone of our country, but our output is poor when compared to the global standards due to lack of using technologies in the fields. In this work, various sensors like humidity sensor, pH level monitoring sensor, Temperature sensor, and Soil moisture sensor are used in the agricultural fields for collecting the real-time data. Multiple Sensors are installed in various locations of farms with one common controller Raspberry PI 3 module (RPI3), which was used to control all these sensors. Camera interfacing with RPI can be observed on leaf disease. Convolutional neural network architecture is used for leaf disease detection and classification. The accuracy of the disease classification system using convolutional neural network is 96% when the system is iterated for 50 epochs. © 2022 World Scientific Publishing Company.

Author Keywords
convolutional neural network; disease classification; IOT in smart farming; sensor data for agriculture; Smart agriculture

Index Keywords
Convolution, Convolutional neural networks, Deep neural networks, Internet of things, Moisture control, Network architecture, Soil moisture; Agricultural fields, Convolutional neural network, Disease classification, Iot in smart farming, Leaf disease, Neural network architecture, New dimensions, Sensor data for agriculture, Sensors data, Smart agricultures; Agriculture

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Documents

Senthil Kumar, G.[a] , Ramana, K.[b] , Madana Mohana, R.[c] , Aluvalu, R.[b] , Gunjan, V.K.[d] , Singh, N.[d e]

An Effective Bootstrapping Framework for Web Services Discovery Using Trigram Approach

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Abstract
Web services are progressively being used to comprehend service-oriented architectures. Web services facilitate the integration of applications and simplify interoperability. Additionally, it assists in wrapping accessible applications in order for developers to access them using standard languages and protocols. The user faces a difficult challenge in selecting the appropriate service in accordance with the user request as the behavior of the participating service affects the overall performance in discovery, selection, and composition. As a result, it is critical to select a high-quality service provider for these activities. Existing approaches rely on nonfunctional qualities for discovery and selection, but the user cannot always rely on these features, and these QoS values cannot be used to determine the user's or quality perspective. Additionally, the user indicates an interest in a high-quality service based on quality attributes or service with a good reputation throughout the selection process rather than a newly registered service. As a result, a proper bootstrapping mechanism is required to evaluate newly registered services prior to their use by service requestors. This paper proposes a novel bootstrapping mechanism. The contribution of this paper involves (a) a method for evaluating the quality of service (QoS) by focusing on performance-related indicators such as response time, execution time, throughput, latency, and dependability; (b) a methodology for evaluating the QoE attributes based on user reviews that take into account both attributes and opinions; (c) bootstrap the newly registered service based on quality of service and quality of experience; and (d) building a recommender system that suggests the top-rated service for composition. The evaluation results are used to augment currently available online services by providing up-to-date quality of service and quality of experience attributes for discovery, selection, and composition. © 2022 G. Senthil Kumar et al.

Index Keywords
Information services, Interoperability, Quality control, Service oriented architecture (SOA), Web services, Websites; High quality service, Performance, Quality attributes, Quality services, Quality-of-service, Service provider, Service-based, Services values, Tri grams, Web Services discovery; Quality of service

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Documents

Monica, K.M.[a] , Parvathi, R.[a] , Gayathri, A.[b] , Aluvalu, R.[c] , Sangeetha, K.[d] , Simha Reddy, C.V.[e]

Hybrid Optimized GRU-ECNN Models for Gait Recognition with Wearable IOT Devices
(2022) *Computational Intelligence and Neuroscience*, 2022, art. no. 5422428, . Cited 1 time.

DOI: 10.1155/2022/5422428

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Abstract
With the advent of the Internet of Things (IoT), human-Assistive technologies in healthcare services have reached the peak of their application in terms of diagnosis and treatment process. These devices must be aware of human movements to provide better aid in clinical applications as well as the user's daily activities. In this context, real-Time gait analysis remains to be key catalyst for developing intelligent assistive devices. In addition to machine and deep learning algorithms, gait recognition systems have significantly improved in terms of high accuracy recognition. However, most of the existing models are focused on improving gait recognition while ignoring the computational overhead that affects the accuracy of detection and even remains unsuitable for real-Time implementation. In this research paper, we proposed a hybrid gated recurrent unit (GRU) based on BAT-inspired extreme convolutional networks (BAT-ECN) for the effective recognition of human activities using gait data. The gait data are collected by implanting the wearable Internet of Things (WIoT) devices invasively. Then, a novel GRU and ECN networks are employed to extract the spatio-Temporal features which are then used for classification to realize gait recognition. Extensive and comprehensive experimentations have been carried out to evaluate the proposed model using real-Time datasets and also other benchmarks such as whuGait and OU-ISIR datasets. To prove the excellence of the proposed learning model, we have compared the model's performance with the other existing hybrid models. Results demonstrate that the proposed model has outperformed the other learning models in terms of high gait classification and less computational overhead. © 2022 K. M. Monica et al.

Index Keywords
Deep learning, Gait analysis, Learning algorithms, Pattern recognition, Real time control, Wearable technology; Assistive technology, Clinical application, Computational overheads, Daily activity, Gait recognition, Healthcare services, Human movements, Learning models, Real- time, Treatment process; Internet of things; algorithm, electronic device, gait, human; Algorithms, Gait, Humans, Internet of Things, Neural Networks, Computer, Wearable Electronic Devices

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Scopus

Documents

Uma Maheswari, V.[a] , Aluvalu, R.[b] , Mudrakola, S.[c]

An Integrated Number Plate Recognition System through images using Threshold-based methods and KNN
(2022) *2022 International Conference on Decision Aid Sciences and Applications, DASA 2022*, pp. 493-497. Cited 1 time.

DOI: 10.1109/DASA54658.2022.9765218

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Abstract
In the last few decades, the use of vehicles in our daily life has become mandatory and increased drastically. Sometimes, controlling traffic and identifying vehicle owners manually becomes tedious due to crowd signals, which disobey the traffic rules and drive fast and abnormal. This demands an efficient and automatic system to solve the problem these days. Still, it is challenging in such cases as moving vehicles fast, font on number plate, illumination, etc. This led to developing efficient and automatic number plate detection as the solution. This paper presents automatic number plate detection with number diagnosis and tracking by applying various methods such as thresholding, morphological methods, contour detection, etc. Later, KNN is used for classification to improve accuracy. The proposed method tested on datasets DB1 and DB2 proves better in terms of accuracy, recognition rate, and retrieval rate. © 2022 IEEE.

Author Keywords
Contour detection; Image feature extraction; KNN; Morphological operations; Thresholding

Index Keywords
Feature extraction, Vehicles; Automatic numbering, Contour detection, Daily lives, Image feature extractions, KNN, Morphological operations, Number plate recognition systems, Number plates, Plate detections, Thresholding; Mathematical morphology

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Bio-Signals in Medical Applications and Challenges Using Artificial Intelligence

By: Swapna, Mudrakola (Swapna, Mudrakola) ; Viswanadhula, Uma Maheswari (Viswanadhula, Uma Maheswari) ; Aluvalu, Rajanikanth (Aluvalu, Rajanikanth) ; Vardharajan, Vijayakumar (Vardharajan, Vijayakumar) ; Kotecha, Ketan (Kotecha, Ketan)

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Abstract

Artificial Intelligence (AI) has broadly connected the medical field at various levels of diagnosis based on the congruous data generated. Different types of bio-signal can be used to monitor a patient's condition and in decision making. Medical equipment uses signals to communicate information to care staff. AI algorithms and approaches will help to predict health problems and check the health status of organs, while AI prediction, classification, and regression algorithms are helping the medical industry to protect from health hazards. The early prediction and detection of health conditions will guide people to stay healthy. This paper represents the scope of bio-signals using AI in the medical area. It will illustrate possible case studies relevant to bio-signals generated through IoT sensors. The bio-signals that retrospectively occur are discussed, and the new challenges of medical diagnosis using bio-signals are identified.

Keywords

Author Keywords: artificial intelligence; signal processing; bio-medical signal processing; smart health devices; sensors; bio-signals

Keywords Plus: HEALTH; CLASSIFICATION; RECOGNITION; REGRESSION; ALGORITHM

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Research Areas: Telecommunications

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Swapna, M.[a] , Uma Maheswari, V.[b] , Aluvalu, R.[c] , Vardharajan, V.[d] , Kotecha, K.[e]

Bio-Signals in Medical Applications and Challenges Using Artificial Intelligence
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Abstract
Artificial Intelligence (AI) has broadly connected the medical field at various levels of diagnosis based on the congruous data generated. Different types of bio-signal can be used to monitor a patient's condition and in decision making. Medical equipment uses signals to communicate information to care staff. AI algorithms and approaches will help to predict health problems and check the health status of organs, while AI prediction, classification, and regression algorithms are helping the medical industry to protect from health hazards. The early prediction and detection of health conditions will guide people to stay healthy. This paper represents the scope of bio-signals using AI in the medical area. It will illustrate possible case studies relevant to bio-signals generated through IoT sensors. The bio-signals that retrospectively occur are discussed, and the new challenges of medical diagnosis using bio-signals are identified. © 2022 by the authors. Licensee MDPI, Basel, Switzerland.

Author Keywords
artificial intelligence; bio-medical signal processing; bio-signals; sensors; signal processing; smart health devices

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Early Prediction of Lung Cancers Using Deep Saliency Capsule and Pre-Trained Deep Learning Frameworks

By: Ramana, Kadiyala (Ramana, Kadiyala) ; Kumar, Madapuri Rudra (Kumar, Madapuri Rudra) ; Sreenivasulu, K. (Sreenivasulu, K.) ; Gadekallu, Thippa Reddy (Gadekallu, Thippa Reddy) ; Bhatia, Surbhi (Bhatia, Surbhi) ; Agarwal, Parul (Agarwal, Parul) ; Idrees, Sheikh Mohammad (Idrees, Sheikh Mohammad)

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FRONTIERS IN ONCOLOGY

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Abstract

Lung cancer is the cellular fission of abnormal cells inside the lungs that leads to 72% of total deaths worldwide. Lung cancer are also recognized to be one of the leading causes of mortality, with a chance of survival of only 19%. Tumors can be diagnosed using a variety of procedures, including X-rays, CT scans, biopsies, and PET-CT scans. From the above techniques, Computer Tomography (CT) scan technique is considered to be one of the most powerful tools for an early diagnosis of lung cancers. Recently, machine and deep learning algorithms have picked up peak energy, and this aids in building a strong diagnosis and prediction system using CT scan images. But achieving the best performances in diagnosis still remains on the darker side of the research. To solve this problem, this paper proposes novel saliency-based capsule networks for better segmentation and employs the optimized pre-trained transfer learning for the better prediction of lung cancers from the input CT images. The integration of capsule-based saliency segmentation leads to the reduction and eventually reduces the risk of computational complexity and overfitting problem. Additionally, hyperparameters of pretrained networks are tuned by the whale optimization algorithm to improve the prediction accuracy by sacrificing the complexity. The extensive experimentation carried out using the LUNA-16 and LIDC Lung Image datasets and various performance metrics such as accuracy, precision, recall, specificity, and F1-score are evaluated and analyzed. Experimental results demonstrate that the proposed framework has achieved the peak performance of 98.5% accuracy, 99.0% precision,

Scopus

Documents

Bavirthi, S.S.[a] , Supreethi, K.P.[b]

An efficient framework for spatio-textual skyline querying and minimizing search space using R+ tree indexing technique

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Abstract
A lot of attention is attracted by skyline querying for its way of formulating the query analysis, which filters the sub-optimal objects that are not relevant to the query. One of its major drawbacks is producing too many insights that are not in the interest of the user along with limited relevant results and increased search space. To solve these issues, many methods based on user preference such as keyword and geo-metric location are introduced for reducing the skylines retrieved which relaxes the dominance definition. This paper presents a spatial-textual skyline querying process using the R + tree indexing technique for establishing a relation between the keywords given by the user and the geometric data of the user with an efficient sky R + pruning technique while considering the minimization of search space for the user's query. With extensive experimentation, it is shown that the proposed spatial-textual skyline querying indexing mechanism showed better performance when compared to the other competing skyline querying indexed mechanisms. © 2022, The Author(s), under exclusive licence to Bharati Vidyapeeth's Institute of Computer Applications and Management.

Author Keywords
Point objects; Query processing; R+ tree; Spatial data mining; Spatial keyword query; Spatial objects; Spatial skyline querying; Textual relevance

Publisher: Springer Science and Business Media B.V.

ISSN: 25112104
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Document Type: Article
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Analysing the adoption barriers for sustainability in the Indian power sector by DEMATEL approach

By: Gedam, Vidyadhar V. (Gedam, Vidyadhar V.) ; Raut, Rakesh D. (Raut, Rakesh D.) ; Priyadarshinee, Pragati (Priyadarshinee, Pragati) ; Chirra, Sricharan (Chirra, Sricharan) ; Pathak, Pranav D. (Pathak, Pranav D.)

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INTERNATIONAL JOURNAL OF SUSTAINABLE ENGINEERING

Volume: 14 **Issue:** 3 **Page:** 471-486

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Published: MAY 4 2021

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Indexed: 2021-02-25

Document Type: Article

Abstract

The present work analyses and prioritises the sustainability barriers in the context of human and organisational (HAO) dimensions in the Indian power sector. A total of eleven barriers were identified through the detailed literature review, the expert's inputs, and four groups. Further, the decision-making trial and evaluation laboratory (DEMATEL) approach was used to analyse the barriers along with the cause-effect relationship. The study showed that there are five barriers in the cause groups and six in the effect group. The most significant barriers among them are top management/stakeholders support and commitment; lack of green training and awareness; policies and practices for recruitment and selection; performance, appraisal, and reward; environmental knowledge, concern, and attitude; adaptation and linkage of green human resource management (GHRM), and green supply chain management (GSCM). The study emphasised the need to combine efforts from the organisation and government towards sustainability. The managers and decision-makers of the Indian power sector also need to focus on HAO aspects for implementing sustainability in the Indian power sector.

Keywords

Author Keywords: Sustainability; human and organisational; power sector; dematel; barriers

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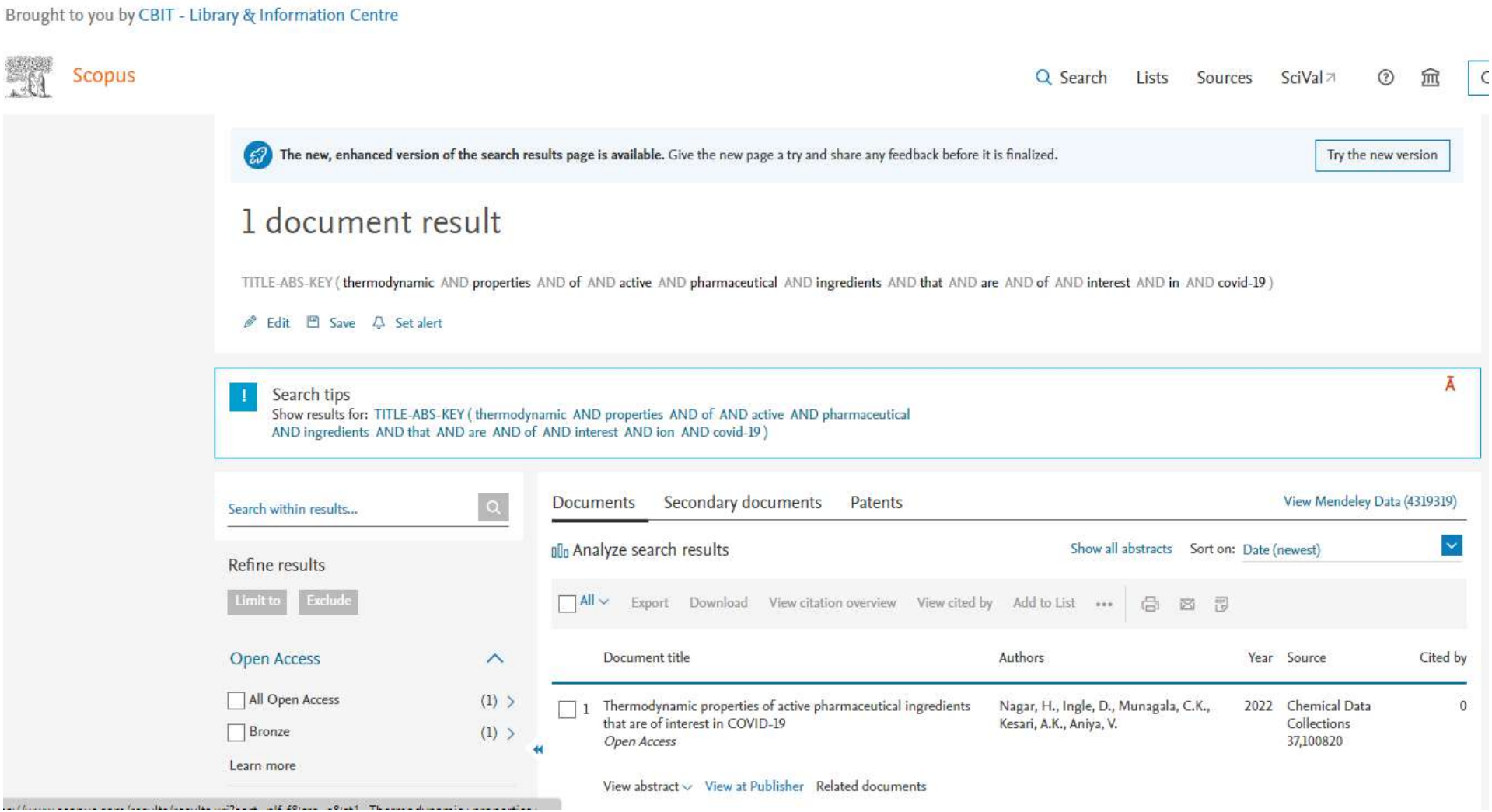
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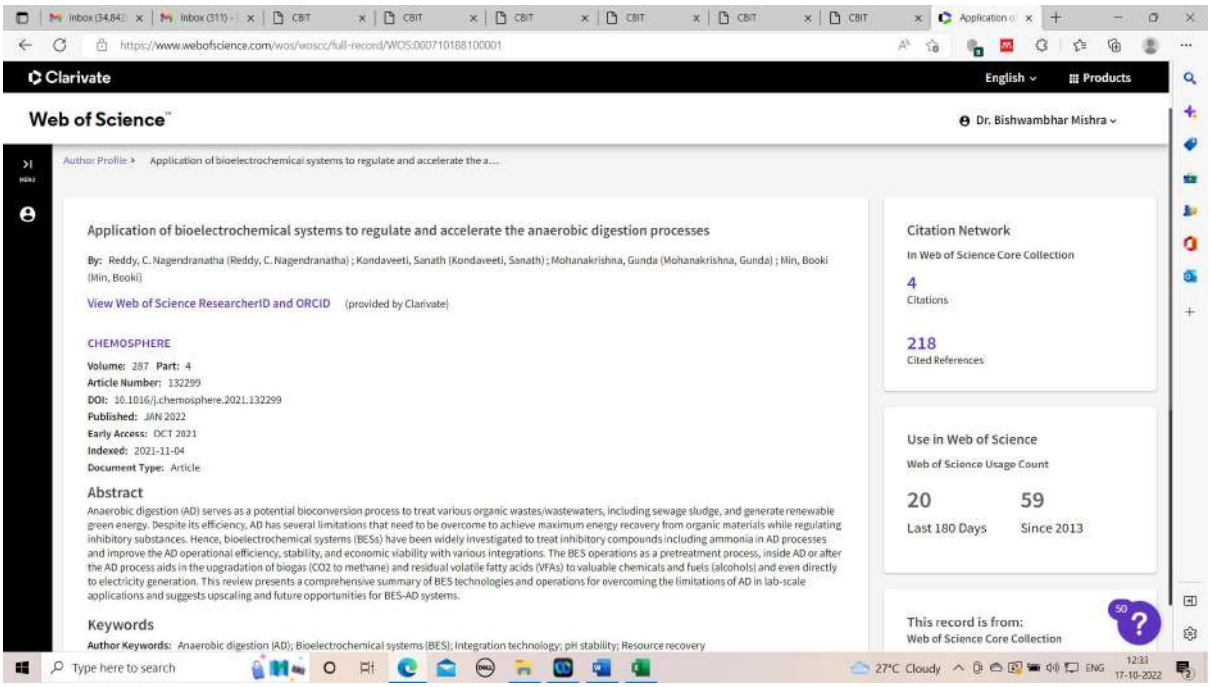


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Effect of fill pattern and printing speed on friction characteristics of FDM printed polylactic acid polymer
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Steady state thermal analysis of debinding process used in metal fused filament fabrication (MF3)
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ADVANCES IN MATERIALS AND PROCESSING TECHNOLOGIES
DOI: 10.1080/2374068X.2021.1948707
Early Access: JUL 2021
Indexed: 2021-07-25
Document Type: Article; Early Access
Abstract
Fused Deposition Modelling is a three-dimensional printing technique used for making prototypes and rapid manufacturing of various parts ranging from commercial to biomedical applications. The FDM printed parts results in anisotropic mechanical properties due to weak bond formation between the rasters and the layers. It is possible to print a part with desired properties by optimising the tool path strategy and printing parameters. This paper investigates the friction properties of FDM-built PLA samples with three different fill patterns (Concentric, linear, and Hilbert) at two different printing speeds (20 mm/s and 50 mm/s). This study shows that printing parameters influence the friction coefficient and specific wear rate. The result shows that the fill pattern with a suitable printing speed provides good
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Heat Transfer • Volume 51, Issue 1, Pages 1213 - 1236 • January 2022

Document type
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ISSN
26884534

DOI
10.1002/htj.22349

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Heat and mass transfer effects on MHD mixed convection flow of viscoelastic fluid with constant viscosity and thermal conductivity

Sharada, Kankanala

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Abstract

The present exploration is based on the contributions of heat and mass transport on the non-Newtonian viscoelastic liquid motion under the impact of magnetism, Soret and Dufour numbers. The model equations that describe the flow mechanism of heat and mass transport are partial differential equations (PDEs). The PDEs were simplified using suitable similarity functions to obtain coupled nonlinear totalordinary differential equations. The simplified equations are numerically solved utilizing the spectral homotopy analysis method. Findings show that the process of heat transport is

Journal of Porous Media • Volume 25, Issue 4, Pages 37 - 51 • 2022

Document type
Article

Source type
Journal

ISSN
1091028X

DOI
10.1615/JPorMedia.2022040230

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ACTIVATION ENERGY PROCESS IN BIOCONVECTION NANOFLUID FLOW THROUGH POROUS CAVITY

Bodduna, Jamuna[a]; Mallesh M.P.[a]; Balla, Chandra Shekar[b] ; Shehzad, Sabir Ali[c]

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Abstract

This article reports the activation energy process in thermo-bioconvection flow via porous media within the foursided cavity filled with gyrotactic microorganisms and nanofluid . The Darcy model with Boussinesq approximation is utilized for the momentum equation in porous medium. The Pedley and Kessler model is utilized for the concentration equations of gyrotactic microorganisms.

Indian Journal of Pure and Applied Physics • Volume 60, Issue 1, Pages 78 - 89 • January 2022

Document type
Article

Source type
Journal

ISSN
00195596

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Nanofluid Bioconvection in Porous Enclosure with Viscous Dissipation

Alluguvelli, Ramesh[a] ; Balla, Chandra Shekar[b]; Naikoti, Kishan[c]; Makinde, Oluwole Daniel[d]

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[d] Faculty of Military Science, Stellenbosch University, Private Bag X1, Matieland, 7602, South Africa

Abstract

In this paper, the bioconvective nanofluid flow in porous square enclosure containing oxytactic microorganism associated with viscous dissipation , is discussed. The bioconvection flow in porous medium is framed by Darcy-Boussinesq approximation. Galerkin finite elements method is employed to solve the governed equations. The computational numerical results are exhibited by the surface plots of stream function, temperature, concentration of oxygen and microorganisms, average

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Comparison of experimental and simulation results using erichsen cupping test of titanium alloy OT 4-1
(2021) *Materials Today: Proceedings*, 45, pp. 2096-2104. Cited 2 times.

2-s2.0-85107376369
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

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Vemula, A.M., Reddy, G.C.M., Hussain, M.M.

Comparative analysis of the orientation dependent tensile deformation of commercially pure titanium and titanium alloy OT 4-1
(2020) *Materials Today: Proceedings*, 37 (Part 2), pp. 1743-1747. Cited 1 time.

2-s2.0-85102476064
Document Type: Conference Paper
Publication Stage: Final
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Inturi, V., Shreyas, N., Sabareesh, G.R.

Anfis-Based Defect Severity Prediction on a Multi-Stage Gearbox Operating Under Fluctuating Speeds
(2021) *Neural Processing Letters*, 53 (5), pp. 3445-3466. Cited 5 times.

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Document Type: Article
Publication Stage: Final
Source: Scopus

Anfis-Based Defect Severity Prediction on a Multi-Stage Gearbox Operating Under Fluctuating Speeds

By: Inturi, Vamsi (Inturi, Vamsi) ; Shreyas, N. (Shreyas, N.) ; Sabareesh, G. R. (Sabareesh, G. R.)

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NEURAL PROCESSING LETTERS

Volume: 53 **Issue:** 5 **Page:** 3445-3466 **Special Issue:** SI
DOI: 10.1007/s11063-021-10557-z
Published: OCT 2021
Early Access: JUN 2021
Indexed: 2021-06-20
Document Type: Article

Abstract

Previous research investigators have exploited machine-learning algorithms to diagnose the defects in rotating machinery. However, with increasing complexity in the design of rotating machinery, it is quite challenging to quantify the faults precisely. In this present study, an attempt has been made to predict the defect severity of the rotating machinery using Adaptive Neuro-Fuzzy Inference System (ANFIS). This ANFIS algorithm employs artificial neural networks to define the membership functions, rules and weights to construct the fuzzy inference system. Experiments are performed on a multi-stage spur gearbox model while it is subjected to fluctuating operating speeds. Two local defects on bearing race as well as on gear tooth with four different severity levels are seeded intentionally. Three condition monitoring (CM) strategies, namely, vibration, lubrication oil and acoustic signal analyses are executed, and the raw data is recorded synchronously. The raw vibration and acoustic waveforms are decomposed through discrete wavelet transform to extract the descriptive statistics from the wavelet coefficients. Among them, most discriminating features are selected and given as input to ANFIS classification tool to train the network for obtaining the Sugeno-type FIS, which in turn estimates the severity of the component. Later, the features from the individual CM strategies

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Inturi, V., Pratyush, A.S., Sabareesh, G.R.

Detection of Local Gear Tooth Defects on a Multistage Gearbox Operating Under Fluctuating Speeds Using DWT and EMD Analysis
(2021) *Arabian Journal for Science and Engineering*, 46 (12), pp. 11999-12008. Cited 6 times.

2-s2.0-85107715852
Document Type: Article
Publication Stage: Final
Source: Scopus

Detection of Local Gear Tooth Defects on a Multistage Gearbox Operating Under Fluctuating Speeds Using DWT and EMD Analysis

By: Inturi, Vamsi (Inturi, Vamsi) ; Pratyush, A. S. (Pratyush, A. S.) ; Sabareesh, G. R. (Sabareesh, G. R.)

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ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING

Volume: 46 **Issue:** 12 **Page:** 11999-12008

DOI: 10.1007/s13369-021-05807-0

Published: DEC 2021

Early Access: JUN 2021

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Document Type: Article

Abstract

Contemporary fault diagnosis algorithms constitute advanced signal processing techniques integrated with the data-driven feature classification algorithms which make an effective fault diagnosis scheme for rotating machinery such as gearboxes and motors. Feature extraction is a prevalent task which is intended to assist the fault diagnosis process by eliciting a set of condition indicators (features) from the input raw signal. In actual scenario, the gearboxes may have multiple stages and are rather operating under fluctuating speeds. The feature extraction technique employed at medium and high ranges of operating speed may not be adequate during low operating speeds. In this present study, the feature extraction abilities of discrete wavelet transform (DWT) and empirical mode decomposition (EMD) in terms of their relative effectiveness while ascertaining the local gear tooth defects of a multistage gearbox are compared. Two local gear tooth defects, namely root crack and tooth chip with three severity levels, are seeded artificially. The experiments are carried out on a three-stage spur gearbox experiencing fluctuating operating speeds. Vibration analysis is performed, and the recorded raw vibration signatures are decomposed using DWT and EMD analyses separately. Mother wavelet selection is done using the criteria of energy-to-Shannon entropy ratio. The identification of intrinsic

Energies • *Open Access* • Volume 14, Issue 22 • November-2 2021 • Article number 7578

Review of the estimation methods of energy consumption for battery electric buses

Al-Ogaili, Ali Saadon[a] ; Al-Shetwi, Ali Q.[b, c] ;

Al-Masri, Hussein M. K.[d] ; Babu, Thanikanti Sudhakar[e] ;

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Review of the estimation methods of energy consumption for battery electric buses

Al-Ogaili, Ali Saadon[a] ; Al-Shetwi, Ali Q.[b, c] ;

Al-Masri, Hussein M. K.[d] ; Babu, Thanikanti Sudhakar[e] ;

Hoon, Yap[f] ; Alzaareer, Khaled[g] ; Phanendra Babu N.V.[e]

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Electric buses in malaysia: Policies, innovations, technologies and life cycle evaluations

Al-Ogaili, Ali Saadon[a] ; Al-Shetwi, Ali Q.[b, c] ;

Babu, Thanikanti Sudhakar[d, e] ; Hoon, Yap[f] ;

Abdullah, Majid A.[g] ; Alhasan, Ameer[h] ; Al-Sharaa, Ammar[i]

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[d] Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, 500075, India

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Satpathy, Priya Ranjan[a] ; Bhowmik, Pritam[b] ;
Babu, Thanikanti Sudhakar[c] ; Sharma, Renu[a] ; Sain, Chiranjit[d]
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Single source multi-frequency ac-ac converter for induction cooking applications

Vishnuram, Pradeep[a] ; Dayalan, Suchitra[a] ;

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Babu, Thanikanti Sudhakar[e] ; Kumar, Nallapaneni Manoj[f] ;
Elavarasan, Rajvikram Madurai[g] ; Mihet-Popa, Lucian[h]
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Performance evaluation of different structures of power system stabilizers

Balasubbareddy M.[a, d] ; Murthy G.V.K.[b]; Sowjan, K. Kumar[c]

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Satyavati Jaga

Article Id : IJARET_11_12_307, Pages : 3261-3266

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN ENGINEERING AND TECHNOLOGY (IJARET), Volume 11, Issue 12, December 2020

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Detection of normal and epileptic EEG signals using by lifting based HAAR wavelet transform and artificial neural network

Published in International Journal of Systems Assurance Engineering and Management on November 09, 2021

ABSTRACT

Electroencephalograms (EEGs), having a substantial potential to diagnose and cure mental and brain diseases and abnormalities, are becoming vital assessment of brain activity. The unit may contain indicators of existing disease or warnings about upcoming disturbances. EEG data can be used to impro

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Vani, S.; ChandraSekhar, P.; Sankriti, Ramanarayan; Aparna, G.

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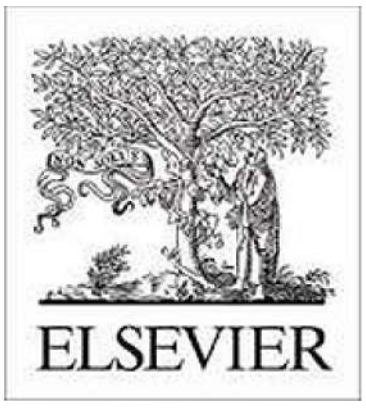

Optimized adaptive neuro fuzzy inference system (OANFIS) based EEG signal analysis for seizure recognition on FPGA

Published in Biomedical Signal Processing and Control in April, 2021

ABSTRACT

The activities of the human brain can be affected due to certain neurological disorder called seizure. Generally, the epileptic abnormalities can be identified by direct visual scanning. But this scanning consumes more time, and it is limited due to some technical artefacts. Hence, there is a necessity of

AUTHORS

Priyadarshini, B. Indira; Reddy, D. Krishna

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Multi-Band Multi-Functional Metasurface-Based Reflective Polarization Converter for Linear and Circular Polarizations

Published in IEEE Access in 2021

ABSTRACT

In this paper, we present a simple metasurface based multiband reflective polarization converter for both linear and circular polarizations. We show that, on one hand, the proposed structure can convert the polarization of linearly polarized waves to the orthogonal direction at four frequency bands

AUTHORS

Dutta, Rahul; Ghosh, Jeet; Yang, Zhengbao; Zhang, Xingqi

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doi.org/10.1109/ACCESS.2021.3128190

Documents

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(2021) *International Journal of Sociotechnology and Knowledge Development*, 13 (1), pp. 1-7. Cited 3 times.

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Nayal, K.[a] , Raut, R.[a] , Priyadarshinee, P.[b] , Narkhede, B.E.[a] , Kazancoglu, Y.[c] , Narwane, V.[d]

Exploring the role of artificial intelligence in managing agricultural supply chain risk to counter the impacts of the COVID-19 pandemic

(2022) *International Journal of Logistics Management*, 33 (3), pp. 744-772. Cited 10 times.

DOI: 10.1108/IJLM-12-2020-0493

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Abstract
Purpose: In India, artificial intelligence (AI) application in supply chain management (SCM) is still in a stage of infancy. Therefore, this article aims to study the factors affecting artificial intelligence adoption and validate AI's influence on supply chain risk mitigation (SCRM). Design/methodology/approach: This study explores the effect of factors based on the technology, organization and environment (TOE) framework and three other factors, including supply chain integration (SCI), information sharing (IS) and process factors (PF) on AI adoption. Data for the survey were collected from 297 respondents from Indian agro-industries, and structural equation modeling (SEM) was used for testing the proposed hypotheses. Findings: This study's findings show that process factors, information sharing, and supply chain integration (SCI) play an essential role in influencing AI adoption, and AI positively influences SCRM. The technological, organizational and environmental factors have a nonsignificant negative relation with artificial intelligence. Originality/value: This study provides an insight to researchers, academicians, policymakers, innovative project handlers, technology service providers, and managers to better understand the role of AI adoption and the importance of AI in mitigating supply chain risks caused by disruptions like the COVID-19 pandemic. © 2021, Emerald Publishing Limited.

Author Keywords
Agriculture supply chain (ASC); Artificial intelligence; Structural equation modeling; Supply chain risk mitigation

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Antecedents for blockchain technology-enabled sustainable agriculture supply chain

By: Nayal, Kirti (Nayal, Kirti) ; Raut, Rakesh D. (Raut, Rakesh D.) ; Narkhede, Balkrishna E. (Narkhede, Balkrishna E.) ; Priyadarshinee, Pragati (Priyadarshinee, Pragati) ; Panchal, Gajanan B. (Panchal, Gajanan B.) ; Gedam, Vidyadhar V. (Gedam, Vidyadhar V.)

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ANNALS OF OPERATIONS RESEARCH

DOI: 10.1007/s10479-021-04423-3
Early Access: DEC 2021
Indexed: 2021-12-11
Document Type: Article; Early Access

Abstract

Blockchain can solve the problems that the agriculture supply chain (ASC) is facing to achieve sustainable growth. In a nation like India, blockchain application in the supply chain is still new; therefore, supply chain players need a better understanding and awareness of blockchain through valuable insights. This article aims to study the mediating role of blockchain technology adoption (BLCT) for sustainable supply chain performance (SSCP). This study investigates the influence of numerous factors such as green and lean practices, supply chain integration, supply chain risk, performance expectancy, top management support, cost, internal and external environmental conditions, regulatory support, and innovation capability on BLCT adoption. A sample of 316 respondents from Indian ASC industries was collected, and structural equation modeling (SEM) was used. This study's outcomes show that green and lean practices, supply chain integration, supply chain risks, internal and external conditions, regulatory support, innovation capability, and cost positively influence BLCT adoption. Moreover, BLCT positively influences sustainable agriculture supply chain performance. This article is valuable for policymakers, managers, service providers, researchers, and academicians to understand the role of factors in influencing BLCT and BLCT's role in improving sustainable supply chain performance (SSCP).

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Nayal, K.[a] , Raut, R.D.[a] , Narkhede, B.E.[a] , Priyadarshinee, P.[b] , Panchal, G.B.[c] , Gedam, V.V.[d]

Antecedents for blockchain technology-enabled sustainable agriculture supply chain
(2021) *Annals of Operations Research*, . Cited 9 times.

DOI: 10.1007/s10479-021-04423-3

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Abstract
Blockchain can solve the problems that the agriculture supply chain (ASC) is facing to achieve sustainable growth. In a nation like India, blockchain application in the supply chain is still new; therefore, supply chain players need a better understanding and awareness of blockchain through valuable insights. This article aims to study the mediating role of blockchain technology adoption (BLCT) for sustainable supply chain performance (SSCP). This study investigates the influence of numerous factors such as green and lean practices, supply chain integration, supply chain risk, performance expectancy, top management support, cost, internal and external environmental conditions, regulatory support, and innovation capability on BLCT adoption. A sample of 316 respondents from Indian ASC industries was collected, and structural equation modeling (SEM) was used. This study's outcomes show that green and lean practices, supply chain integration, supply chain risks, internal and external conditions, regulatory support, innovation capability, and cost positively influence BLCT adoption. Moreover, BLCT positively influences sustainable agriculture supply chain performance. This article is valuable for policymakers, managers, service providers, researchers, and academicians to understand the role of factors in influencing BLCT and BLCT's role in improving sustainable supply chain performance (SSCP). © 2021, The Author(s).

Author Keywords
Agricultural-food supply chain (ASC); Blockchain technology (BLCT); Structural equation modeling (SEM); Sustainable supply chain performance (SSCP)

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Supply chain firm performance in circular economy and digital era to achieve sustainable development goals

By: Nayal, Kirti (Nayal, Kirti) ; Kumar, Shashank (Kumar, Shashank) ; Raut, Rakesh D. (Raut, Rakesh D.) ; Queiroz, Maciel M. (Queiroz, Maciel M.) ; Priyadarshinee, Pragati (Priyadarshinee, Pragati) ; Narkhede, Balkrishna E. (Narkhede, Balkrishna E.)

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BUSINESS STRATEGY AND THE ENVIRONMENT

Volume: 31 **Issue:** 3 **Page:** 1058-1073
DOI: 10.1002/bse.2935
Published: MAR 2022
Early Access: NOV 2021
Indexed: 2021-11-24
Document Type: Article

Abstract

Digitalization of the supply chain (SC) has received plenty of attention from practitioners and researchers in recent years to address the challenges of the business environment and assist firms in achieving a circular SC. Implementing circularity in business operations is a practice of achieving sustainability which is of utmost significance for achieving sustainable development goals established by the United Nations. This study empirically examines the relation among flexibility, AI-IoT adoption, and SC firm performance under the circular economy (CE) environment based on resource orchestration theory (ROT), an integrated version of the extended-resource-based view, and dynamic capability theory (DCT). Data were collected from Indian manufacturing firms through a questionnaire-based survey and examined using "structural equation modeling (SEM)." The study results show that information flexibility and organizational flexibility have the highest impact on AI-IoT adoption. Organizational flexibility shows full mediation with AI-IoT, which would influence the SC firm performance directly. The analysis also indicates that CE will affect the relation between organizational flexibility and AI-IoT adoption. These findings pave the way for cross-country analysis, formation of practical strategies, and policies related to AI-IoT and CE implementations.

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Nayal, K.[a] , Kumar, S.[a] , Raut, R.D.[a] , Queiroz, M.M.[b] , Priyadarshinee, P.[c] , Narkhede, B.E.[a]

Supply chain firm performance in circular economy and digital era to achieve sustainable development goals
(2022) *Business Strategy and the Environment*, 31 (3), pp. 1058-1073. Cited 8 times.

DOI: 10.1002/bse.2935

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[b] Postgraduate Program in Business Administration, Paulista University – UNIP, São Paulo, Brazil
[c] Chaitanya Bharathi Institute of Technology (CBIT), Telangana, Hyderabad, India

Abstract
Digitalization of the supply chain (SC) has received plenty of attention from practitioners and researchers in recent years to address the challenges of the business environment and assist firms in achieving a circular SC. Implementing circularity in business operations is a practice of achieving sustainability which is of utmost significance for achieving sustainable development goals established by the United Nations. This study empirically examines the relation among flexibility, AI–IoT adoption, and SC firm performance under the circular economy (CE) environment based on resource orchestration theory (ROT), an integrated version of the extended-resource-based view, and dynamic capability theory (DCT). Data were collected from Indian manufacturing firms through a questionnaire-based survey and examined using "structural equation modeling (SEM)." The study results show that information flexibility and organizational flexibility have the highest impact on AI–IoT adoption. Organizational flexibility shows full mediation with AI–IoT, which would influence the SC firm performance directly. The analysis also indicates that CE will affect the relation between organizational flexibility and AI–IoT adoption. These findings pave the way for cross-country analysis, formation of practical strategies, and policies related to AI–IoT and CE implementations. © 2021 ERP Environment and John Wiley & Sons Ltd.

Author Keywords
AI–IoT; circular economy (CE); resource orchestration theory; SEM; supply chain flexibility; Sustainable Development Goals (SDG)

Index Keywords
industrial performance, manufacturing, supply chain management, Sustainable Development Goal, technology adoption, United Nations

Publisher: John Wiley and Sons Ltd

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The role of big data for Supply Chain 4.0 in manufacturing organisations of developing countries

By: Narwane, Vaibhav S. (Narwane, Vaibhav S.) ; Raut, Rakesh D. (Raut, Rakesh D.) ; Yadav, Vinay Surendra (Yadav, Vinay Surendra) ; Cheikhrouhou, Naoufel (Cheikhrouhou, Naoufel) ; Narkhede, Balkrishna E. (Narkhede, Balkrishna E.) ; Priyadarshinee, Pragati (Priyadarshinee, Pragati)

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JOURNAL OF ENTERPRISE INFORMATION MANAGEMENT

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DOI: 10.1108/JEIM-11-2020-0463
Published: NOV 9 2021
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Indexed: 2021-10-21
Document Type: Article

Abstract

Purpose Big data is relevant to the supply chain, as it provides analytics tools for decision-making and business intelligence. Supply Chain 4.0 and big data are necessary for organisations to handle volatile, dynamic and global value networks. This paper aims to investigate the mediating role of "big data analytics" between Supply Chain 4.0 business performance and nine performance factors. Design/methodology/approach A two-stage hybrid model of statistical analysis and artificial neural network analysis is used for analysing the data. Data gathered from 321 responses from 40 Indian manufacturing organisations are collected for the analysis. Findings Statistical analysis results show that performance factors of organisational and top management, sustainable procurement and sourcing, environmental, information and product delivery, operational, technical and knowledge, and collaborative planning have a significant effect on big data adoption. Furthermore, the results were given to the artificial neural network model as input and results show "information and product delivery" and "sustainable procurement and sourcing" as the two most vital predictors of big data adoption. Research limitations/implications This study confirms the mediating role of

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Narwane, V.S.[a] , Raut, R.D.[b] , Yadav, V.S.[c] , Cheikhrouhou, N.[d] , Narkhede, B.E.[b] , Priyadarshinee, P.[e]

The role of big data for Supply Chain 4.0 in manufacturing organisations of developing countries
(2021) *Journal of Enterprise Information Management*, 34 (5), pp. 1452-1480. Cited 3 times.

DOI: 10.1108/JEIM-11-2020-0463

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[d] Geneva School of Business Administration, HES-SO, Geneva, Switzerland
[e] Chaitanya Bharathi Institute of Technology, Gandipet, India

Abstract
Purpose: Big data is relevant to the supply chain, as it provides analytics tools for decision-making and business intelligence. Supply Chain 4.0 and big data are necessary for organisations to handle volatile, dynamic and global value networks. This paper aims to investigate the mediating role of “big data analytics” between Supply Chain 4.0 business performance and nine performance factors. Design/methodology/approach: A two-stage hybrid model of statistical analysis and artificial neural network analysis is used for analysing the data. Data gathered from 321 responses from 40 Indian manufacturing organisations are collected for the analysis. Findings: Statistical analysis results show that performance factors of organisational and top management, sustainable procurement and sourcing, environmental, information and product delivery, operational, technical and knowledge, and collaborative planning have a significant effect on big data adoption. Furthermore, the results were given to the artificial neural network model as input and results show “information and product delivery” and “sustainable procurement and sourcing” as the two most vital predictors of big data adoption. Research limitations/implications: This study confirms the mediating role of big data for Supply Chain 4.0 in manufacturing organisations of developing countries. This study guides to formulate management policies and organisation vision about big data analytics. Originality/value: For the first time, the impact of big data on Supply Chain 4.0 is discussed in the context of Indian manufacturing organisations. The proposed hybrid model intends to evaluate the mediating role of big data analytics to enhance Supply Chain 4.0 business performance. © 2021, Emerald Publishing Limited.

Author Keywords
Artificial neural network; Big data analytics; Business performance; Digital supply chain; Structural equation modelling; Supply chain 4.0

Publisher: Emerald Group Holdings Ltd.

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The impact of sustainable development strategy on sustainable supply chain firm performance in the digital transformation era

By: Nayal, Kirti (Nayal, Kirti) ; Raut, Rakesh D. (Raut, Rakesh D.) ; Yadav, Vinay Surendra (Yadav, Vinay Surendra) ; Priyadarshinee, Pragati (Priyadarshinee, Pragati) ; Narkhede, Balkrishna E. (Narkhede, Balkrishna E.)

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BUSINESS STRATEGY AND THE ENVIRONMENT

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DOI: 10.1002/bse.2921
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Abstract

Availability of limited resources presents the need for sustainable development strategies to achieve sustainable performance. However, in the era of digitalization and globalization many researchers explored the role of digital technologies in improving sustainable performance. However, the literature on the role of collaboration and coordination in a digitally enabled supply chain (SC) to achieve sustainability is still lacking. This study aims to investigate the effect of supply chain collaboration and coordination (SCC), sustainable development strategy (SDS), digital transformation (DIT), and collaborative advantages (COA) on sustainable supply chain firm performance (SSCFP). The conceptual model is based on the relational view (RV), transaction cost economics (TCE), technology, organization and environment (TOE), and resource-based view (RBV) theories. This study utilizes structural equation modeling (SEM) to analyze data collected from 361 respondents of the automotive industry in India. The findings show that SCC positively affects SDS and DIT. SDS positively affects DIT, COA, and DIT positively affects SSCFP. DIT fully mediates the relationship b… managers can… sustainable p… in the digitalized SC. The study provides empirical evidence to

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Nayal, K.[a] , Raut, R.D.[a] , Yadav, V.S.[b] , Priyadarshinee, P.[c] , Narkhede, B.E.[a]

The impact of sustainable development strategy on sustainable supply chain firm performance in the digital transformation era

(2022) *Business Strategy and the Environment*, 31 (3), pp. 845-859. Cited 12 times.

DOI: 10.1002/bse.2921

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[b] Department of Mechanical Engineering, National Institute of Technology, Raipur, India
[c] Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, India

Abstract
Availability of limited resources presents the need for sustainable development strategies to achieve sustainable performance. However, in the era of digitalization and globalization many researchers explored the role of digital technologies in improving sustainable performance. However, the literature on the role of collaboration and coordination in a digitally enabled supply chain (SC) to achieve sustainability is still lacking. This study aims to investigate the effect of supply chain collaboration and coordination (SCC), sustainable development strategy (SDS), digital transformation (DIT), and collaborative advantages (COA) on sustainable supply chain firm performance (SSCFP). The conceptual model is based on the relational view (RV), transaction cost economics (TCE), technology, organization and environment (TOE), and resource-based view (RBV) theories. This study utilizes structural equation modeling (SEM) to analyze data collected from 361 respondents of the automotive industry in India. The findings show that SCC positively affects SDS and DIT. SDS positively affects DIT, COA, and DIT positively affects SSCFP. DIT fully mediates the relationship between SCC and COA. The study suggests that managers can apply SCC, SDS, and DIT in series to achieve sustainable performance. However, the COA can only be enhanced in the digitalized SC. The study provides empirical evidence to policymakers and practitioners for the synergy between SCC, SDS, DIT, and COA to achieve sustainable performance in the SC's manufacturing firm. © 2021 ERP Environment and John Wiley & Sons Ltd.

Author Keywords
collaborative advantages; digital transformation; supply chain collaboration and coordination; sustainable development goals (SDGs); sustainable development strategy; sustainable supply chain firm performance

Index Keywords
conceptual framework, corporate social responsibility, digitization, numerical model, supply chain management, sustainability, sustainable development, Sustainable Development Goal, transaction cost; India

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ISSN: 09644733
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Manjulatha, B.[a] , Pabboju, S.[b]

An Ensemble Model for Predicting Chronic Diseases Using Machine Learning Algorithms
(2021) *Smart Innovation, Systems and Technologies*, 224, pp. 337-345. Cited 1 time.

DOI: 10.1007/978-981-16-1502-3_34

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[b] Information Technology, CBIT, Hyderabad, India

Abstract
Correct diagnosis of a disease plays a vital role in today's environment. Diabetes and liver are one such chronic diseases which are the most hazardous ailment that affects a large number of individuals which may lead to death. Machine learning algorithms help to predict the diseases early which saves many lives of mankind in the world. Datasets like Pima Indian diabetes dataset (PIMA), Indian liver patient data (ILPD) and cardiovascular disease (CVD) are taken from UCI repository to compare the results by applying various well-known algorithms. Every algorithm gives its output independently but knowing the highest accuracy is difficult as each algorithm gives different result, i.e., may be less or more according to their dimensions. In this system, accuracy is increased by combining individual algorithms such as decision tree, SVM, logistic regression, ANN, random forest classifier, KNN to construct an ensemble hybrid model which gives more accurate, accuracy. © 2021, The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd.

Author Keywords
Diabetes; Ensemble techniques; Heart disease; Liver; Machine learning

Index Keywords
Decision trees, Diagnosis, Diseases, Hospital data processing, Learning systems, Logistic regression, Support vector machines; Cardiovascular disease, Chronic disease, Ensemble modeling, Hybrid model, Patient data, Pima Indian Diabetes, Random forest classifier, UCI repository; Learning algorithms

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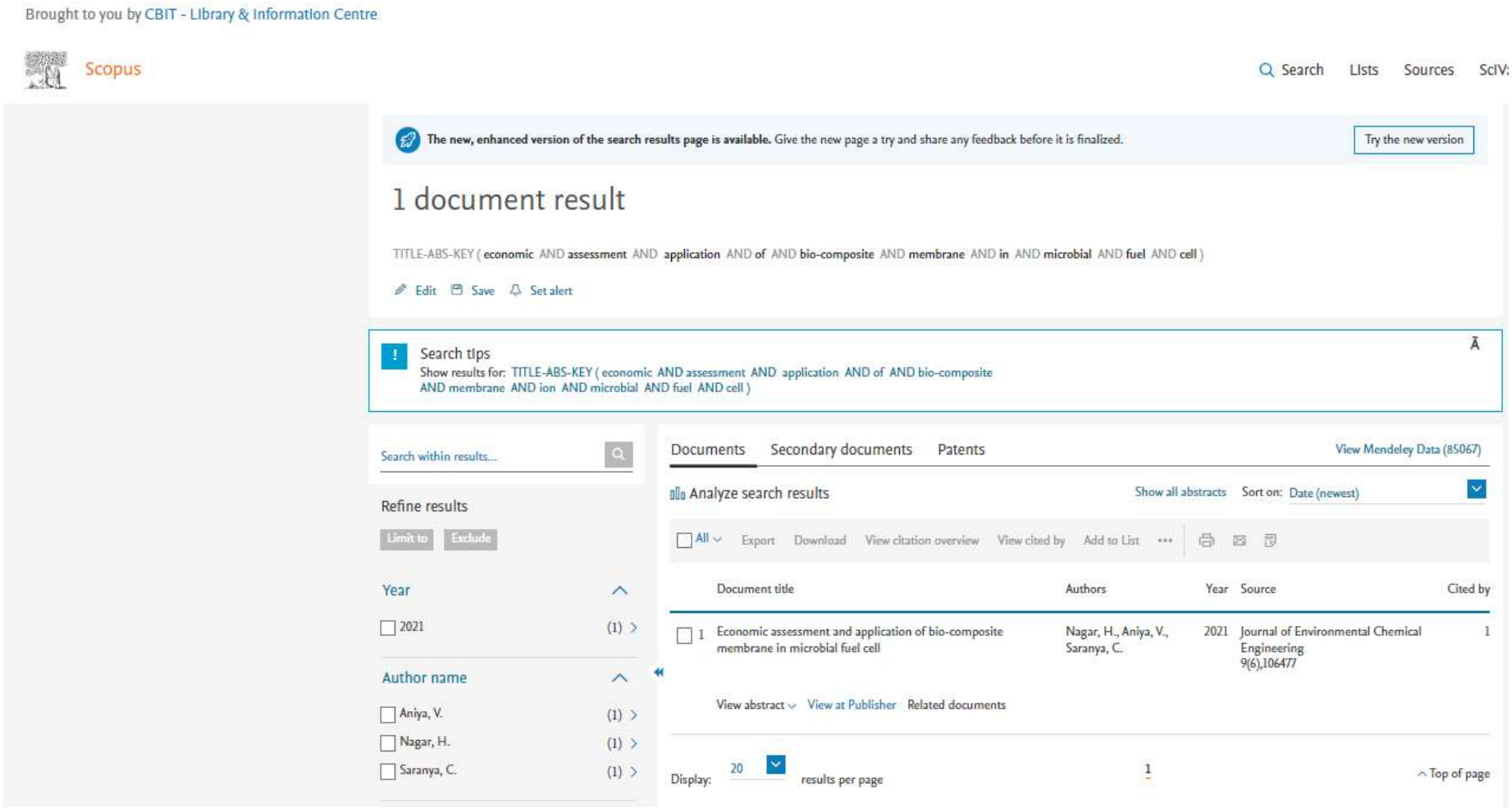
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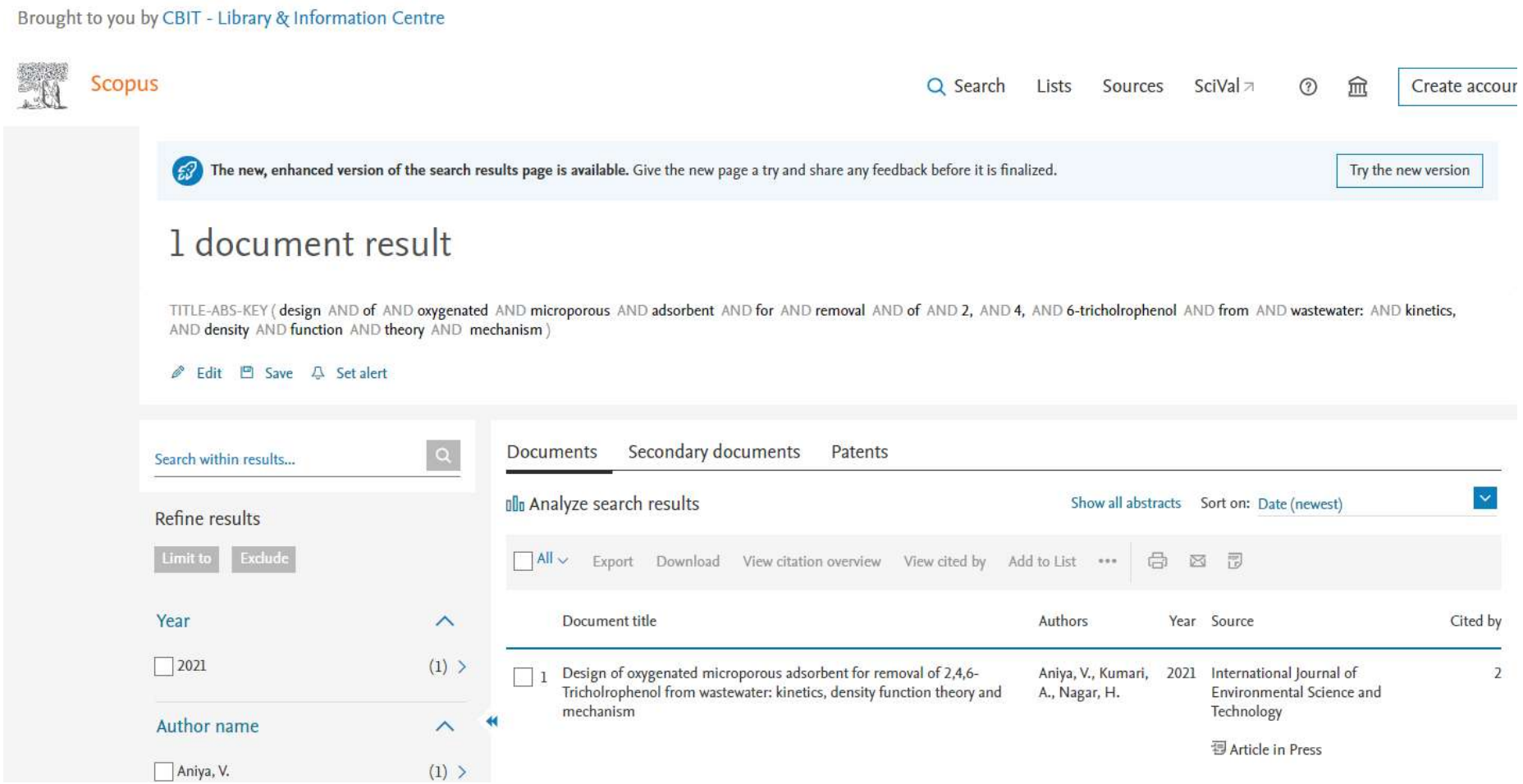
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1 Design of oxygenated microporous adsorbent for removal of 2,4,6-Tricholrophenol from wastewater: kinetics, density function theory and mechanism
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International Journal of Environmental Science and Technology
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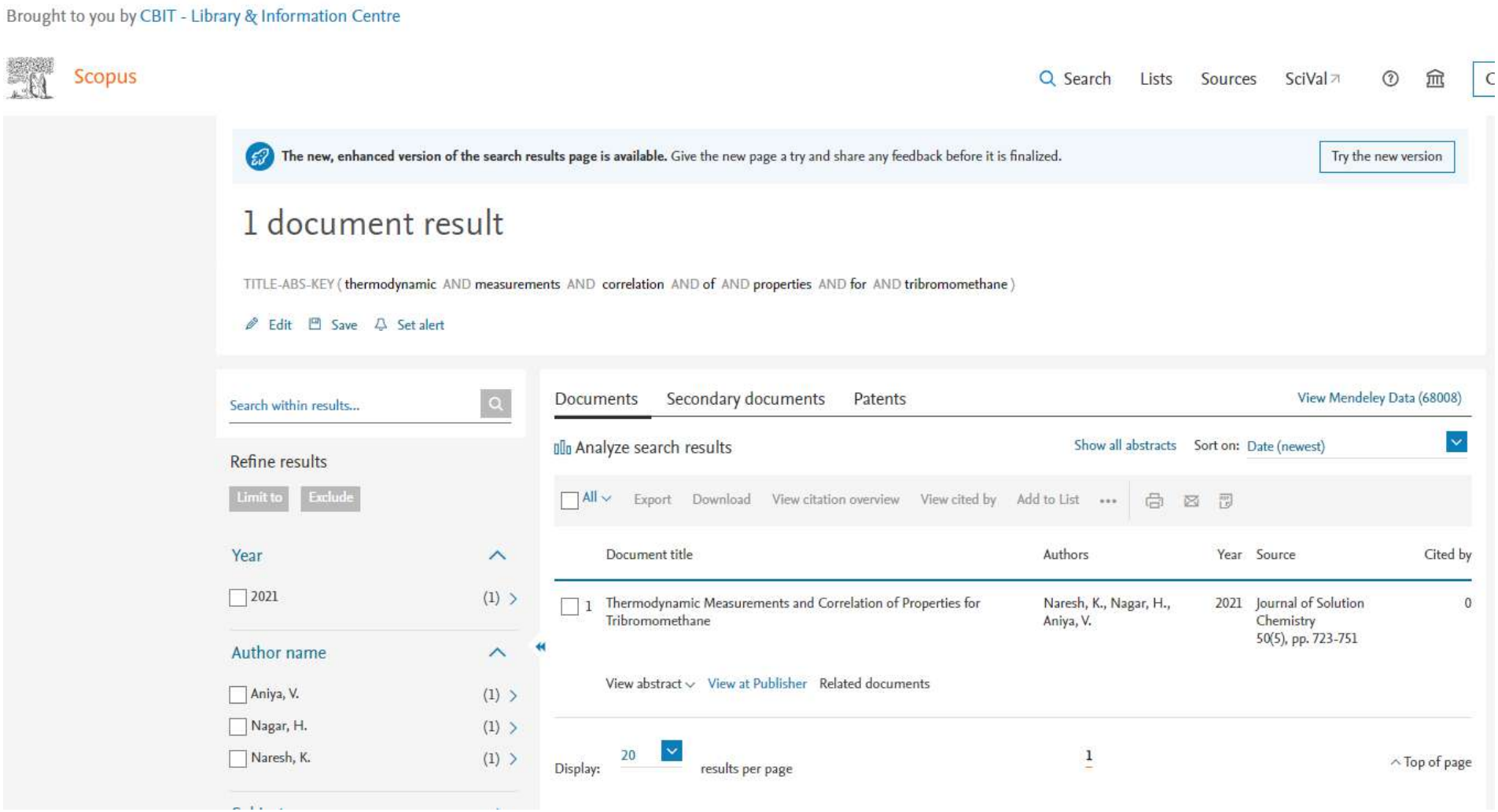
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Naresh, K., Nagar, H., Aniya, V.
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Chemical Engineering and Technology • Volume 44, Issue 5, Pages 901 - 905 • May 2021

Data-Driven Modeling of Biodiesel Production Using Artificial Neural Networks

Mogilicharla, Anitha[a]; Reddy, P. Swapna[b]

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Document type
Article

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Journal

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09307516

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10.1002/ceat.202000434

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Abstract

Data-driven modeling of biodiesel production was developed by simultaneous transesterification and esterification of rapeseed oil and myristic acid with methanol, without catalyst or with different amounts of sulfated zirconia catalyst. An artificial neural network

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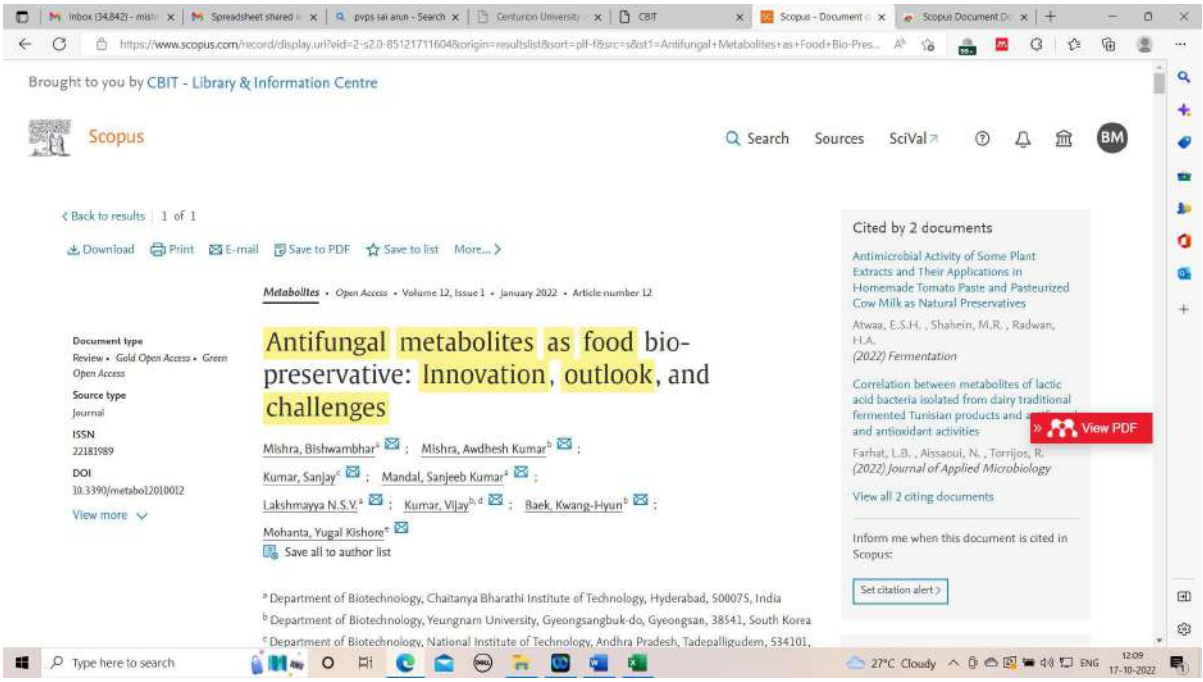

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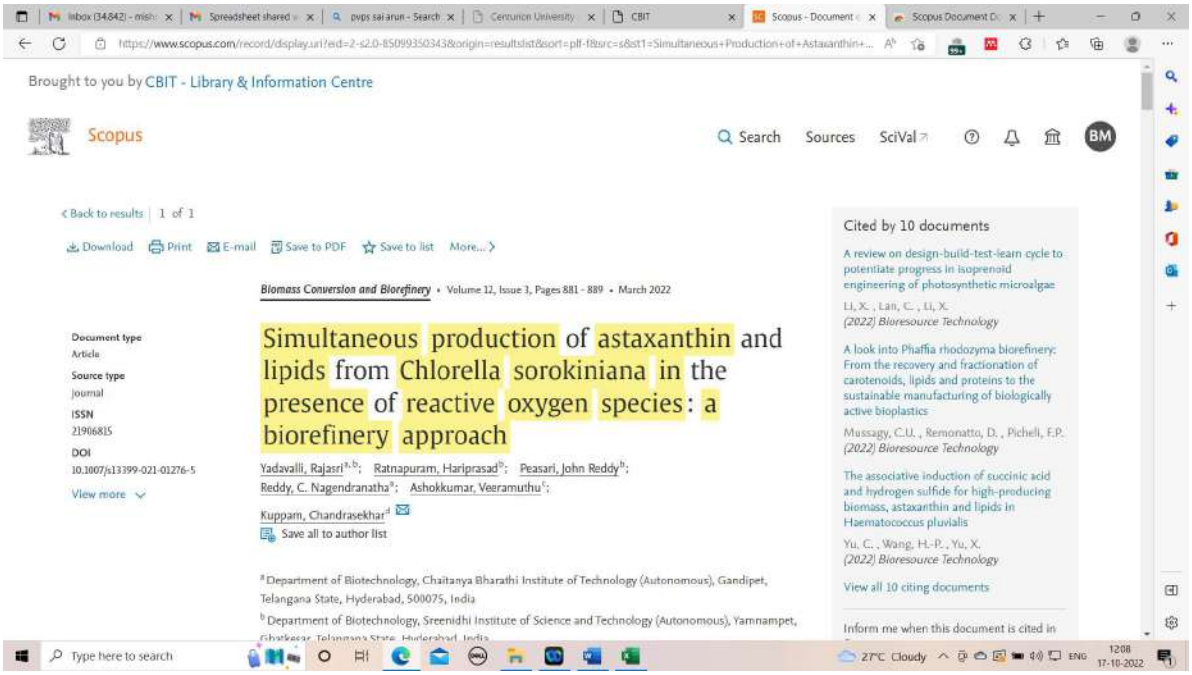

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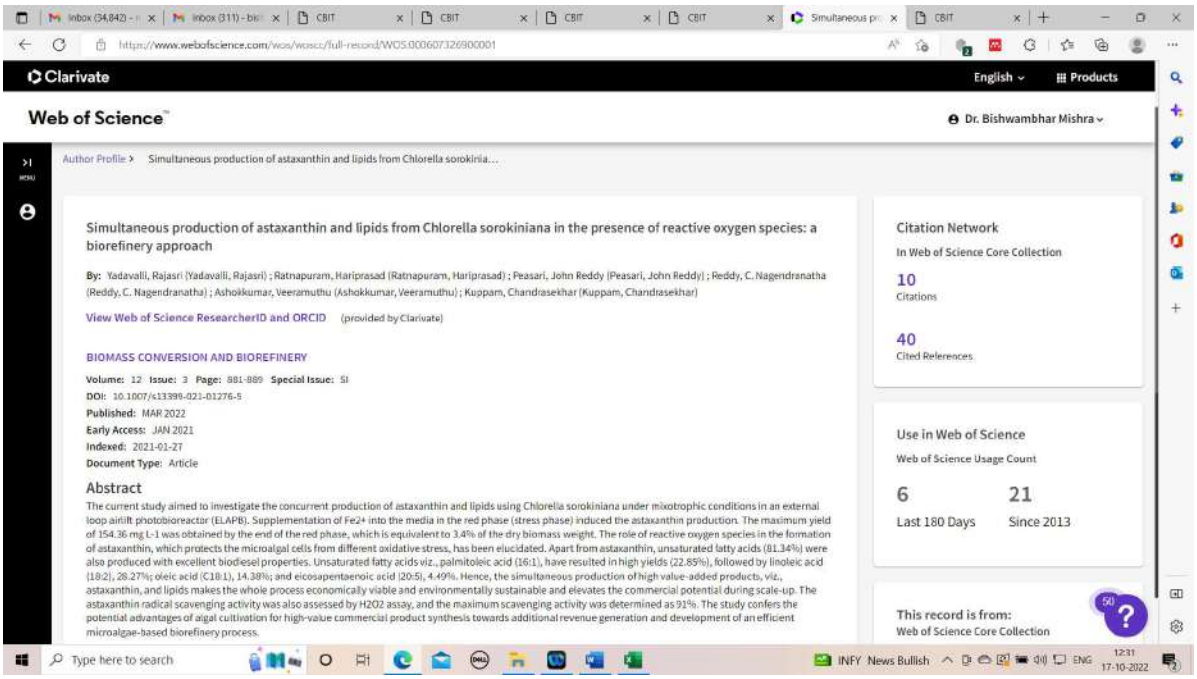

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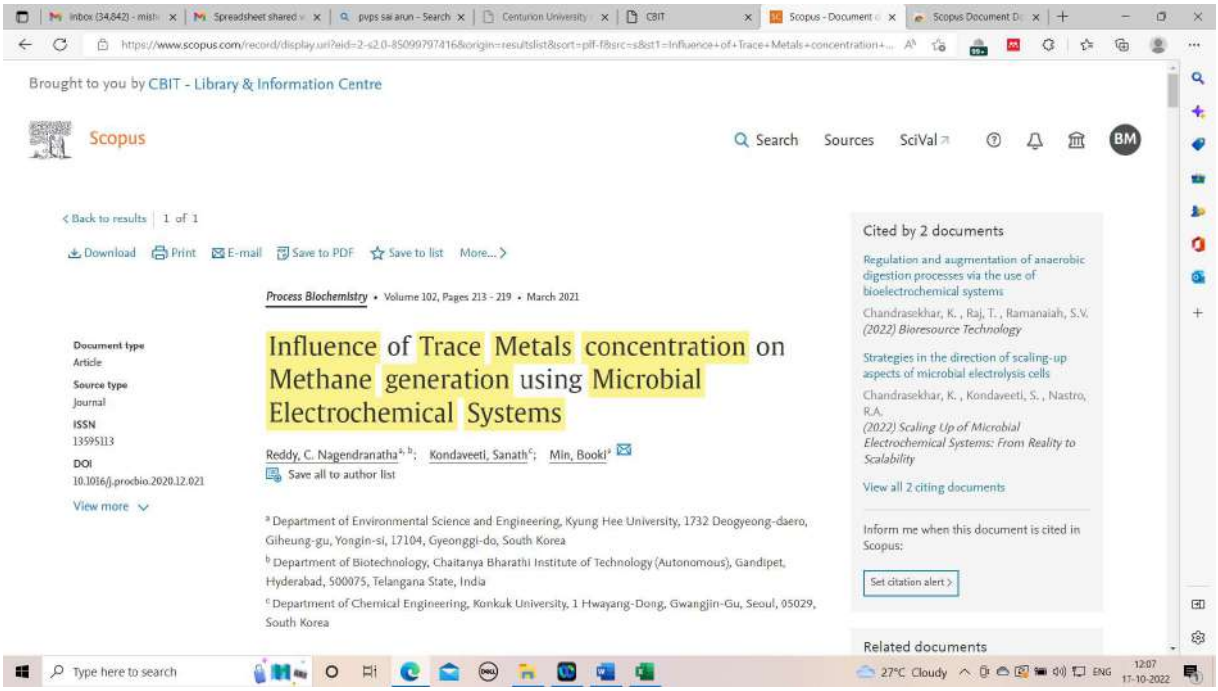

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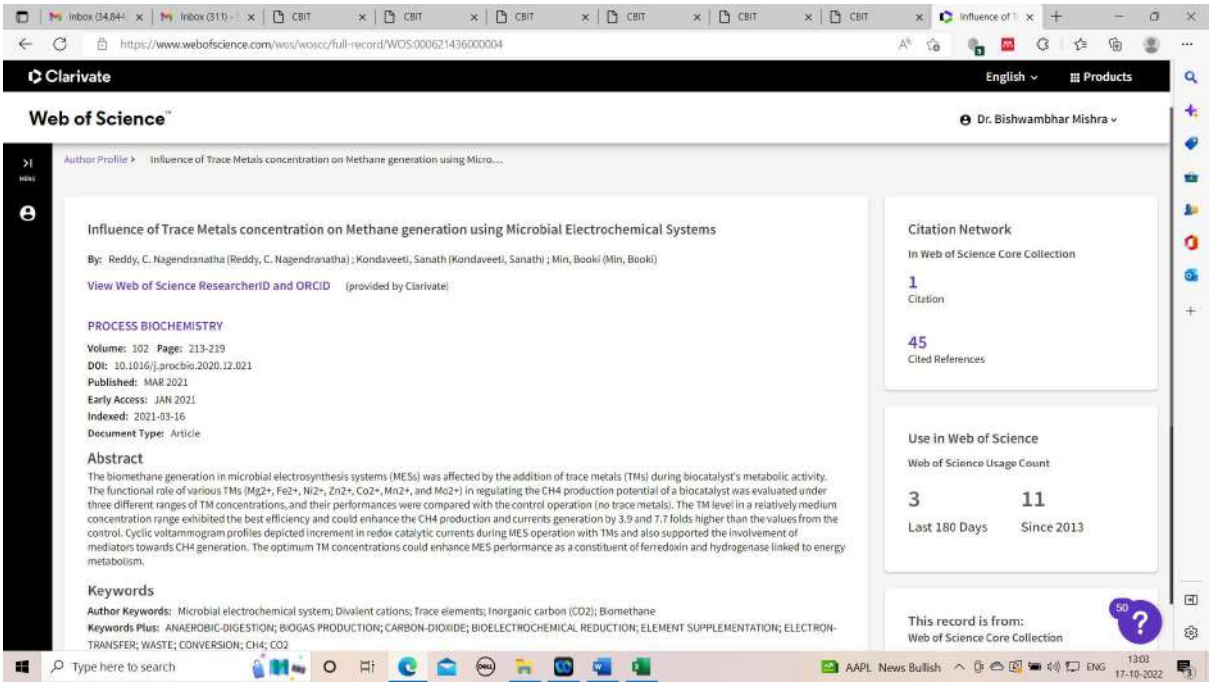

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10.1117/12.2589198

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Multi U-bent cladded POF sensors for refractive index measurement

Kishore P.V.N.[a]; Aruna N.[a]; Pratima B.M.[b]; Rajeswara Rao N.[c]; Ashok J.[d]

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Abstract

The cladded U-bent plastic optical fiber (POF) probes with single, triple and quintuple U-bent regions investigated under this study show a RI sensitivity of 2.7, 3.7 and 2.3 absorbance units/RI units respectively. The highest sensitivity obtained here is more than 50% of decladded single U-bent POF probes, however with superior chemical resistance. © 2021 SPIE.

Author keywords

Journal of High Energy Physics • *Open Access* • Volume 2021, Issue 3 • March 2021 • Article number 155

Document type
Article • *Gold Open Access* • *Green Open Access*

Source type
Journal

ISSN
10298479

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10.1007/JHEP03(2021)155

View more

Power corrections to event shapes using Eikonal dressed gluon exponentiation

Agarwal, Neelima[a] ; Mukhopadhyay, Ayan[b] ; Pal, Sourav[b] ; Tripathi, Anurag[b]
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Abstract

Event shapes are classical tools for the determination of the strong coupling and for the study of hadronization effects in electron-positron annihilation. In the context of analytical studies, hadronization corrections take the form of power-suppressed contributions to the cross section, which can be extracted from the perturbative ambiguity of Borel-resummed distributions. We propose a simplified version of the well-established method of Dressed Gluon Exponentiation (DGE), which we call Eikonal DGE (EDGE), which determines all dominant power corrections to event shapes by means of strikingly elementary calculations. We believe our method can be generalized to hadronic event shapes and jet shapes of relevance for LHC physics. © 2021, The Author(s).

Author keywords

NLO Computations; QCD Phenomenology

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Cwebs beyond three loops in multiparton amplitudes

Agarwal, Neelima[a] ; Magnea, Lorenzo[b, c] ; Pal, Sourav[d] ; Tripathi, Anurag[d]

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Abstract

Correlators of Wilson-line operators in non-abelian gauge theories are known to exponentiate, and their logarithms can be organised in terms of collections of Feynman diagrams called webs. In [1] we introduced the concept of Cweb, or correlator web, which is a set of skeleton diagrams built with connected gluon correlators, and we computed the mixing matrices for all Cwebs connecting four or five Wilson lines at four loops. Here we complete the evaluation of four-loop mixing matrices, presenting the results for all Cwebs connecting two and three Wilson lines. We observe that the conjectured column sum rule is obeyed by all the mixing matrices that appear at four-loops. We also show how low-dimensional mixing matrices can be uniquely determined from their known

Ceramics International • Volume 47, Issue 7, Pages 9591 - 9596 • 1 April 2021

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Article

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Journal

ISSN
02728842

DOI
10.1016/j.ceramint.2020.12.094

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Cation distribution in Ni substituted $Ba_{0.5}Sr_{1.5}Co_2Fe_{12}O_{22}$ Y-type hexagonal ferrites

Manendar M.[a]; Reddy, S. Shravan Kumar[b]; Ramesh J.[c]; Reddy, M. Sreenath[a]; Raja, M. Manivel[d]; Reddy, Ch. Gopal[a]; Reddy, P. Yadagiri[a]; Reddy, V. Raghavendra[e]

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View additional affiliations

Abstract

The present work reports the study of cation distribution in Ni substituted polycrystalline $Ba_{0.5}Sr_{1.5}Co_2Fe_{12}O_{22}$ (Co_2Y-BSCFO) hexaferrite samples using complimentary experimental methods viz., in-field F57e Mössbauer and Raman spectroscopy. Combining the analysis of in-field F57e Mo¨ssbauer and Raman spectroscopy measurements it is shown that the substituted Ni in Co_2Y-BSCFO preferentially occupies the octahedral site with spin-down configuration i.e., $6c_{VI}$. The obtained cation distribution data is found to qualitatively match the magnetization values as obtained from bulk

AIP Conference Proceedings • Volume 2352 • 5 August 2021 • Article number 020018 • 5th National e-Conference on Advanced Materials and Radiation Physics, AMRP 2020 • Longowal • 9 November 2020through 11 November 2020 • Code 170876

Document type
Conference Paper

Source type
Conference Proceedings

ISSN
0094243X

ISBN
978-073544105-7

DOI
10.1063/5.0053022

View more

Magnetization studies of Mn doped $YFeO_3$multiferroics

Padmasree G.[a]; Reddy, S. Shravan Kumar[c]; Kumar, N. Pavan[d]; Reddy, P. Yadagiri[b]; Reddy, Ch. Gopal[b]

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[d] Matrusri Engineering College, Saidabad, Hyderabad, Telangana, 500059, India

Abstract

The studies on the structural and magnetic properties of YFe1-xMnxO3 (x =0, 0.1, 0.2, 0.3, 0.4 and 0.5) multiferroic samples, prepared by sol-gel method, are reported in this paper. The X-ray diffraction studies confirm the crystalline nature of the compounds which are formed in a pure single phase. From scanning electron micrographs, the average particle size is found to be increased with increasing Mn content and the sample is becoming porous. Magnetization versus magnetic field studies reveal that as Mn content increases, the saturation magnetization, remnant magnetization and coercive field values decreases which clearly indicates that the antiferromagnetic coupling gets strengthened. This increase in the antiferromagnetic nature is possibly due to the structural distortions in the compounds which give rise to the antiferromagnetic super exchange magnetic interactions between Fe+3 - Fe+3 and Fe+3 - Mn+3. © 2021 Author(s).

Materials Today: Proceedings • Volume 46, Pages 2201 - 2204 • 2021 • 2020 International Conference on Multifunctional Nanomaterials, ICMN 2020 • Virtual, Online • 28 December 2020through 30 December 2020 • Code 169724

Document type
Conference Paper

Source type
Journal

ISSN
22147853

DOI
10.1016/j.matpr.2021.03.199

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Structural and magnetic properties of $Y_{1-x}Dy_xFeO_3$multiferroics

Padmasree G.[a]; Shravan Kumar Reddy S.[c]; Pavan Kumar N.[d]; Yadagiri Reddy P.[b]; Gopal Reddy, Ch.[b]

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[c] Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, 500075, India
[d] Matrusri Engineering College, Saidabad, Telangana, Hyderabad, 500059, India

Abstract

$Y_{1-x}Dy_xFeO_3$(x = 0.0, 0.2, 0.4, 0.6 and 0.8) multiferroic materials are prepared by sol-gel method. The effect of Dy doping on the structural and magnetic properties of $YFeO_3$has been investigated in this paper. X-ray diffraction plots indicate that all the samples are crystalline and possess orthorhombic structure. The morphological studies show that samples possess non uniform grain size and grains are irregular in shape. Magnetic measurements suggest that substitution of Dy^{+3}ions in place of Y^{+3}ions effectively enhances the magnetization of $YFeO_3$. This enhancement may be due to the additional Dy-Dy interactions, Dy-Fe interactions and Fe-O-Fe superexchange bond caused by the distortion of crystal structure.

Physical Chemistry Chemical Physics • Volume 23, Issue 9, Pages 5607 - 5614 • 7 March 2021

Document type
Article

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Journal

ISSN
14639076

DOI
10.1039/d0cp06368a

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Non-collinear antiferromagnetism to compensated ferrimagnetism in $Ti(Fe_{1-x}Co_x)_2$(x= 0, 0.5 and 1) alloys: experiment and theory

Samatham, S. Shanmukharao[a] ; Patel, Akhilesh Kumar[b]; Lukoyanov, Alexey V.[c, d]; Suresh K.G.[b]; Nirmala R.[e]

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[d] Ural Federal University, Ekaterinburg, 620002, Russian Federation

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Abstract

The manifestation of the structural and magnetic properties of Co substituted $TiFe_2$is investigated using powder X-ray diffraction, magnetization and density functional theory calculations. The alloys $TiFe_2$and TiFeCo crystallize in the hexagonal structure ($P6_3/mmc$) with a reduction in the lattice parameters of TiFeCo (by about 0.51% inaand 0.64% inc) when compared to $TiFe_2$. On the other hand,

International Journal of Environmental Analytical Chemistry • 2021

Document type
Article

Source type
Journal

ISSN
03067319

DOI
10.1080/03067319.2021.1938020

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Mapping of ambient gamma radiation levels and risk assessment in some parts of Eastern Deccan Plateau, India

Srinivas Reddy G.[a]; Vinay Kumar Reddy K.[b]; Sreenivasa Reddy B.[b]; Linga Reddy B.[b]; Sreenath Reddy M.[c] ; Gopal Reddy, Ch.[c]; Yadagiri Reddy P.[c]

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[b] Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, India

[c] Department of Physics, Osmania University, Hyderabad, India

Abstract

Natural background gamma radiation levels in the indoors and outdoors of certain northern districts of Telangana State, situated on Deccan plateau, were measured with scintillation detector-based survey metre. It was observed that the absorbed gamma dose rates in the indoor and outdoor of the study area were found to vary from 106 $nGyh^{-1}$ to 322 $nGyh^{-1}$ with an average of 192±48 $nGyh^{-1}$, and 102 $nGyh^{-1}$ to 331 $nGyh^{-1}$ with an average of 172±50 $nGyh^{-1}$, respectively. Spatial distribution maps and isodose contours are created using inverse distance weighted technique. The histogram and quantile graphs of the indoor and outdoor natural background gamma radiation levels were observed to follow the

Radiation and Environmental Biophysics • Volume 60, Issue 3, Pages 437 - 445 • August 2021

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Article

Source type
Journal

ISSN
0301634X

DOI
10.1007/s00411-021-00912-y

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Inhalation dose due to residential radon and thoron exposure in rural areas: a case study at Erravalli and Narasannapet model villages of Telangana state, India

Reddy, B. Linga[a]; Reddy, G. Srinivas[b]; Reddy, K. Vinay Kumar[a]; Reddy, B. Sreenivasa[a]

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Abstract

Exposure to indoor radon has been identified as a cause of lung cancer. The corresponding inhalation radiation dose received is an important parameter in estimating the risk of cancer due to the inhalation of radon. The present investigation is aimed at the estimation of the radiation dose due to radon, its

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Article • *Gold Open Access* • *Green Open Access*

Source type
Journal

ISSN
20452322

DOI
10.1038/s41598-021-85698-1

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Radon and thoron levels in the dwellings of Buddonithanda: a village in the environs of proposed uranium mining site, Nalgonda district, Telangana state, India

Suman G.[a]; Vinay Kumar Reddy K.[b]; Sreenath Reddy M.[a] ; Gopal Reddy, Ch.[a]; Yadagiri Reddy P.[a]
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[a] Department of Physics, Osmania University, Hyderabad, 500007, India
[b] Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, 500 075, India

Abstract

Elevated levels of radon and thoron in the indoor atmosphere may cause the deleterious effects on the mankind. Mining sites and their environs attract a special interest in radon studies as higher levels are frequently reported in the habitats. In the present study, radon and thoron levels were measured in the dwellings of Buddonithanda, a village in the environs of proposed uranium mining site, with pin-hole (SSNTDs) dosimeters for the period of a year. The measured radon and thoron levels were found to vary widely from 14 to 675 Bqm^{-3} (geometric mean = 94 Bqm^{-3}) and from 21 to 704 Bqm^{-3} (geometric mean = 121 Bqm^{-3}), respectively. An attempt was made to understand the large spatial variation ofthese levels. The seasonal and diurnal variation studies were usedin unraveling the behavior ofthe

Journal of Radioanalytical and Nuclear Chemistry • Volume 330, Issue 3, Pages 1339 - 1345 • December 2021

Document type
Article

Source type
Journal

ISSN
02365731

DOI
10.1007/s10967-021-07875-w

View more

Natural background gamma radiation dose estimation in the surrounding villages of Devarakonda Town, Telangana State, India

Reddy, M. Srinivas[b]; Suman G.[a]; Reddy, K. Vinay Kumar[c]; Reddy, M. Sreenath[a] ✉; Reddy, Ch. Gopal[a]; Reddy, P. Yadagiri[a]

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Abstract

Natural background gamma radiation levels were estimated in indoors and outdoors of the surrounding seven villages of Devarakonda town, these villages are at a distance of 15 to 20kms from the proposed uranium mining area, in the Telangana State, with μR survey meter and Thermoluminescence Dosimeters (TLDs). The estimated average absorbed dose rates in the indoors and outdoors with survey meter were found to be 233 ± 68 nGy h^{-1} and 204 ± 55 nGy h^{-1}, respectively, and estimated average gamma radiation levels with TLDs in the indoors were found to be 318 ± 48 nGy h^{-1}. The estimated dose rate is about four times higher than the national average. The distribution of

Proceedings of SPIE - The International Society for Optical Engineering • Volume 11772 • 2021 • Article number 117720I • Optical Sensors 2021 • Virtual, Online • 19 April 2021through 23 April 2021 • Code 169853

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Conference Paper

Source type
Conference Proceedings

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978-151064378-9

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10.1117/12.2589085

View more

Detection of copper by localized surface Plasmon resonance based fiber optic technique

Aruna N.[a, b]; Chandra Mouli K.[b]; Kishore P.V.N.[a]; Pratima B.M.[c]; Rajeswara Rao N.[d]; Ashok J.[e]

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Abstract

The present article discusses a cost effective technique for the detection and quantification of copper ion by using localized surface Plasmon resonance (LSPR) based fiber optic technique. For the purpose, a small portion of a plastic optical fiber is functionalized with gold nanoparticles which are modified

Journal of Magnetism and Magnetic Materials • Volume 523 • 1 April 2021 • Article number 167561

Document type
Article

Source type
Journal

ISSN
03048853

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10.1016/j.jmmm.2020.167561

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Raman and in-field ^{57}Fe Mössbauer study of cation distribution in indium (In) substituted phase pure cobalt ferrite ($CoFe_{2-x}In_xO_4$)

Sumalatha M.[a]; Shravan Kumar Reddy S.[b]; Sreenath Reddy M.[c] ✉; Sripada, Suresh[d]; Manivel Raja M.[e]; Gopal Reddy, Ch.[c]; Yadagiri Reddy P.[c]; Raghavendra Reddy V.[f]

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Abstract

Structural, magnetic and ^{57}Fe Mössbauer investigations of indium (In) doped cobalt ferrite are reported. Polycrystalline $CoFe_{2-x}In_xO_4$, x = 0, 0.2, 0.4, 0.6, 0.8 samples are prepared by sol–gel method. In contrast to most of the literature, in the present work phase pure samples are obtained, except for x


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Document type
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ISSN
22147853
DOI
10.1016/j.matpr.2020.12.016
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A concise review on 4D printing technology
Saritha D.*; Boyina, Dhatreyi*
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* Department of Chemistry, Chaitanya Bharathi Institute of Technology (A), Hyderabad, Telangana, 500075, India
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Biomaterials for Tissue Engineering Applications and Current Updates in the Field: A Comprehensive Review
Eldeeb, A.E. , Salah, S. , Elkasabgy, N.A.
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Smart biomaterials: From 3D printing to 4D bioprinting
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Saadi, M.A.S.R. , Maguire, A. , Pottackal, N.T.
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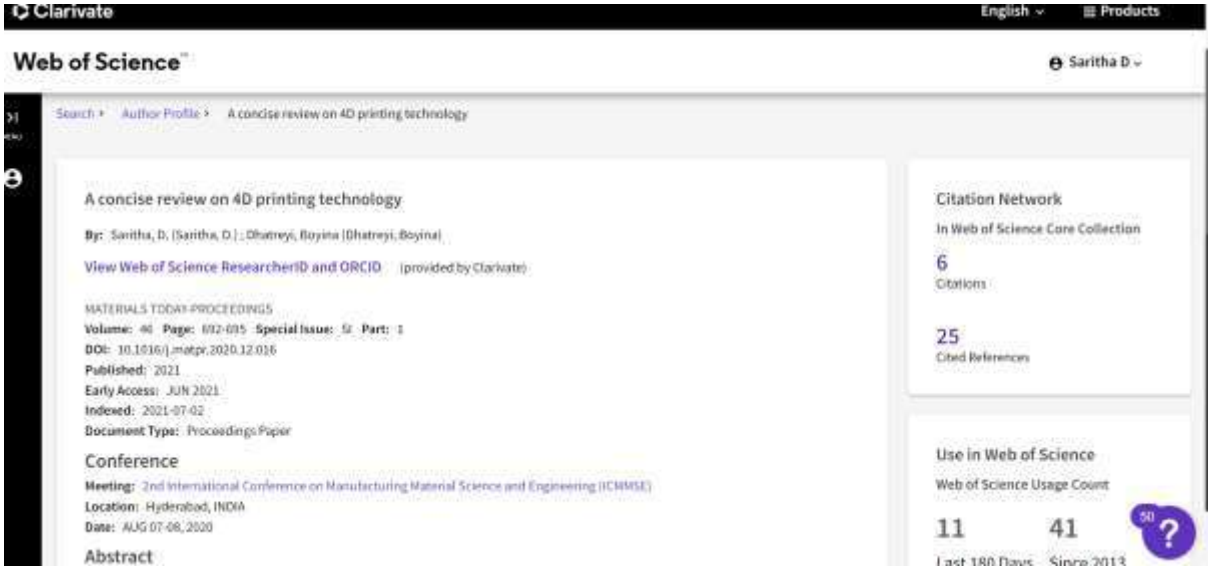
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Document Type: Proceedings Paper
Conference
Meeting: 2nd International Conference on Manufacturing Material Science and Engineering (ICMMSE)
Location: Hyderabad, INDIA
Date: AUG 07-08, 2020
Abstract
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Materials Today: Proceedings • Open Access • Volume 38, Pages 2512 - 2514 • 2020 • 1st International Conference and Exposition on Mechanical, Material and Manufacturing Technology, ICE3MT 2020 • Hyderabad • 9 October 2020through 10 October 2020 • Code 167890
Document type
Conference Paper • Hybrid Gold Open Access
Source type
Journal
ISSN
22147853
DOI
Synthesis and electrochemical properties of Fe_2WO_6
Santha D.
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[a] Department of Chemistry, Chaitanya Bharathi Institute of Technology (A), Hyderabad,
Cited by 1 document
Revisiting the five-decade-old structure of the Fe2WO6powder with incommensurate modulations
Quarez, E. , Espinosa-Angeles, J.C. , Crosnier, O.
(2021) CrystEngComm
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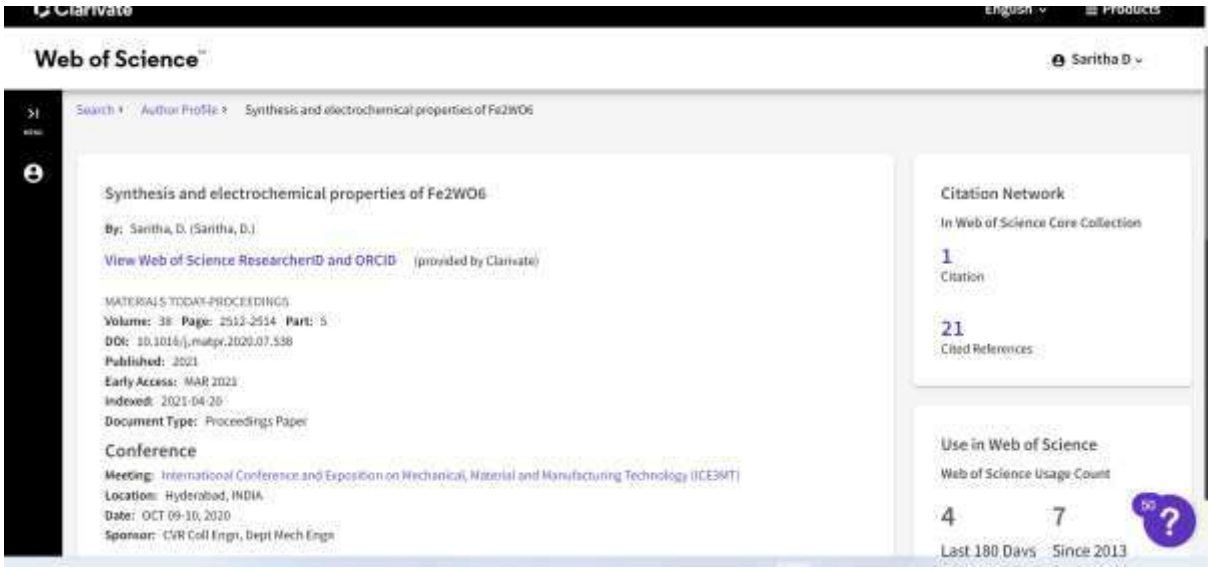
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Synthesis and electrochemical properties of Fe2WO6
Synthesis and electrochemical properties of Fe2WO6
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MATERIALS TODAY-PROCEEDINGS
Volume: 38 Page: 2512-2514 Part: 5
DOI: 10.1016/j.matpr.2020.07.538
Published: 2021
Early Access: MAR 2021
Indexed: 2021-04-20
Document Type: Proceedings Paper
Conference
Meeting: International Conference and Exposition on Mechanical, Material and Manufacturing Technology (ICE3MT)
Location: Hyderabad, INDIA
Date: OCT 09-10, 2020
Sponsor: CVR Coll Engn, Dept Mech Engn
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Molecular Diversity • Open Access • Volume 26, Issue 3, Pages 1357 - 1371 • June 2022

Document type
Article • Bronze Open Access • Green Open Access

Source type
Journal

ISSN
13811991

DOI
10.1007/s11030-021-10258-8

Discovery of (±)-3-(1 H -pyrazol-1-yl)-6,7-dihydro-5 H -[1,2,4]triazolo[3,4- b][1,3,4] thiadiazine derivatives with promising in vitro anticoronavirus and antitumoral activity

Jilloju, Parameshwara Chary[a]; Persoons, Leentje[b]; Kurapati, Sathish Kumar[c,d]; Schols, Dominique[b]; De Jonghe, Steven[b]; Daelemans, Dirk[b]; Vedula, Rajeswar Rao[a]

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[a] Department of Chemistry, National Institute of Technology, Telangana, Warangal, 506004, India
[b] Department of Microbiology, Immunology and Transplantation, Laboratory of Virology and Chemotherapy, KU Leuven, Rega Institute for Medical Research, Herestraat 49, Leuven, Belgium
[c] Department of Chemistry, National Institute of Technology, Andhra Pradesh, 534101, India
[d] Department of Chemistry, Chaithanya Bharati Institute of Technology, Telangana, Hyderabad, 500075, India

Abstract

Heat Transfer • Volume 50, Issue 5, Pages 5123 - 5147 • July 2021

Document type
Article

Source type
Journal

ISSN
26884534

DOI
10.1002/htj.22118

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Impact of Soret and Dufour on bioconvective flow of nanofluid in porous square cavity

Balla, Chandra Shekar[a]; Ramesh, Alluguvelli[b]; Kishan, Naikoti[c]; Rashad, Ahmed Mohamed[d]

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[a] Department of Mathematics, Chaitanya Bharathi Institute of Technology, Gandipet, Telangana, India
[b] Department of Mathematics, Geethanjali College of Engineering & Technology, Hyderabad, Telangana, India
[c] Department of Mathematics, Osmania University, Hyderabad, Telangana, India
[d] Department of Mathematics, Faculty of Science, Aswan University, Aswan, Egypt

Abstract

This article addresses the bioconvection in a porous cavity associated with Soret and Dufour effects. The bioconvective flow in a porous medium is based on Hillesdon and Pedley's model and is governed by nonlinear partial differential equations. These equations are transformed into a dimensionless form with suitable nondimensional parameters. The finite element method is employed to solve the dimensionless equations. The outcomes of the study are presented by streamlines, temperature

International Journal of Applied Mechanics and Engineering • *Open Access* • Volume 25, Issue 4, Pages 96 - 115 • 1 December 2020

Document type
Article • *Gold Open Access*

Source type
Journal

ISSN
17344492

DOI
10.2478/ijame-2020-0052

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The Effect of Modulation on Heat Transport by a Weakly Nonlinear Thermal Instability in the Presence of Applied Magnetic Field and Internal Heating

Manjula S.H.[a] ; Kiran, Palle[b] ; Narsimlu G.[b] ; Roslan R.[c]

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[a] Division of Mathematics, Vignan's Foundation for Science, Technology and Research, Guntur, Andhra Pradesh, 522213, India

[b] Department of Mathematics, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, 500075, India

[c] Faculty of Applied Sciences and Technology, University Tun Hussein Onn, Pagoh, Muar, Johor, 84600, Malaysia

Abstract

The present paper deals with a weakly nonlinear stability problem under an imposed time-periodic thermal modulation. The temperature has two parts: A constant part and an externally imposed time-dependent part. We focus on stationary convection using the slow time scale and quantify convective

3.4.5. Bibliometrics of the publications during the last five years based on average Citation index in Scopus/ Web of Science

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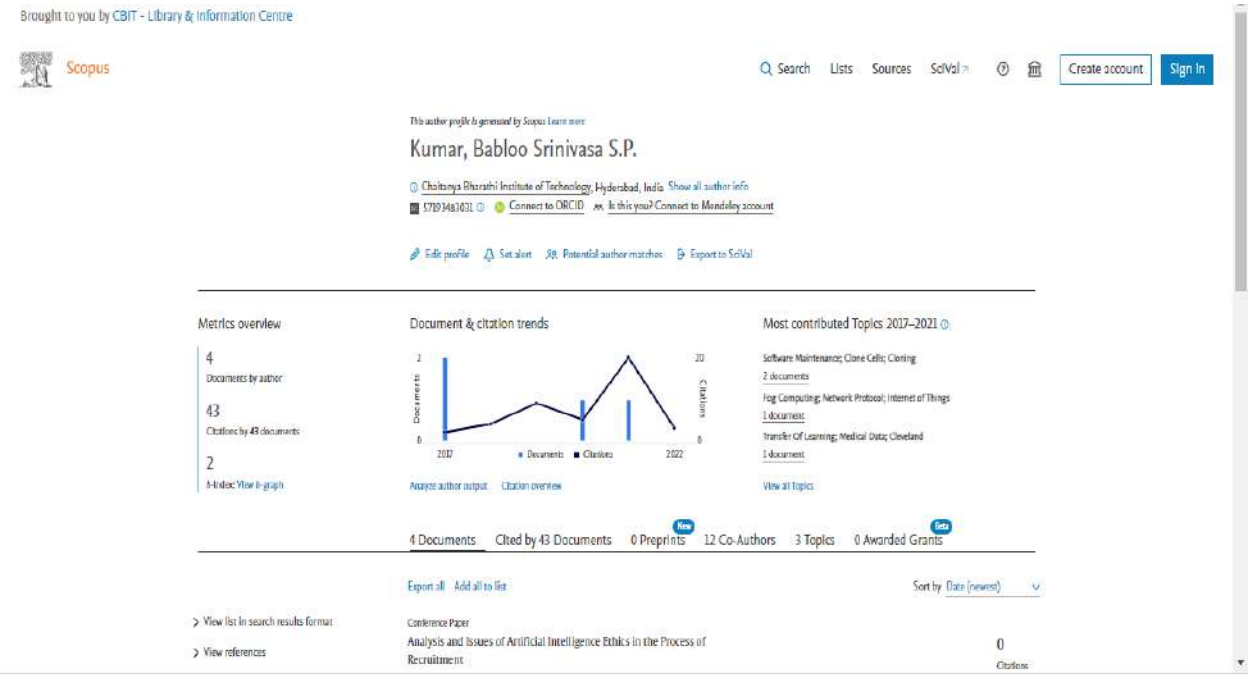

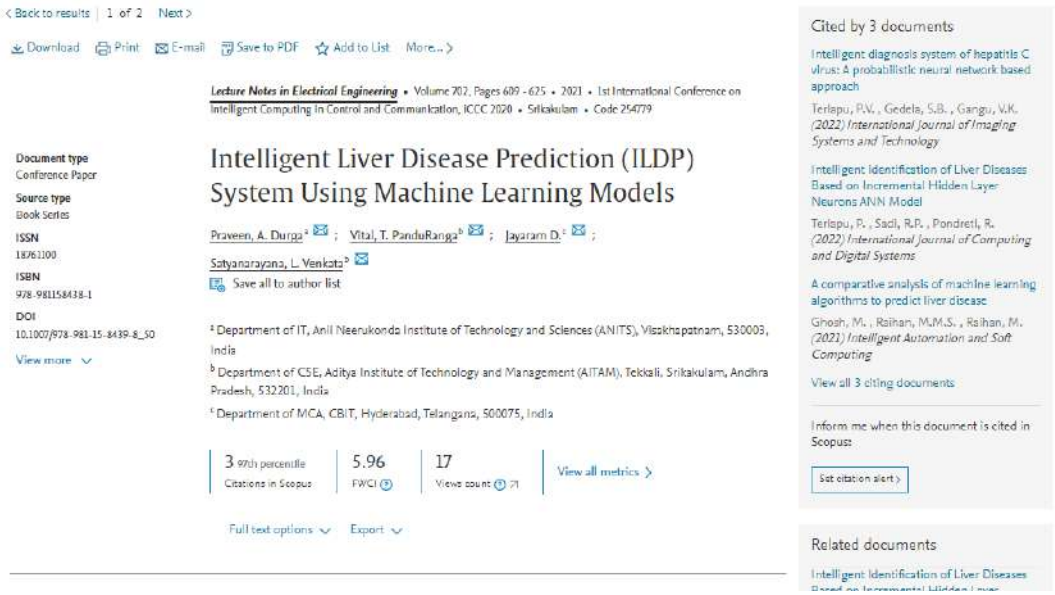

Arabian Journal for Science and Engineering • Volume 46, Issue 4, Pages 3383 - 3407 • April 2021

Document type
Article

Source type
Journal

ISSN
2193567X

DOI
10.1007/s13369-020-05080-7

Probabilistic Neural Network-based Model for Identification of Parkinson's Disease by using Voice Profile and Personal Data

Vital, T. Pandu Ranga[a] ; Nayak, Janmenjoy[a] ; Naik, Bighnaraj[b] ; Jayaram D.[c]

Save all to author list

[a] Department of Computer Science Engineering, Aditya Institute of Technology and Management (AITAM), Tekkali, 532201, Andhra Pradesh, India

[b] Department of Computer Science Applications, Veer Surendra Sai University of Technology, Burla, 768018, Odisha, India

[c] Department of MCA, Chaitanya Bharathi Institute of Technology (CBIT), Gandipet, Hyderabad, Telengana, India

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Documents

Tanveer, M., Kaur, H., Thomas, G., Mahmood, H., Paruthi, M., Yu, Z.

Mobile phone buying decisions among young adults: An empirical study of influencing factors
(2021) *Sustainability (Switzerland)*, 13 (19), art. no. 10705, . Cited 4 times.

2-s2.0-85115879327
Document Type: Article
Publication Stage: Final
Source: Scopus

Mobile Phone Buying Decisions among Young Adults: An Empirical Study of Influencing Factors

By: Tanveer, Muhammad (Tanveer, Muhammad) ; Kaur, Harsandaldeep (Kaur, Harsandaldeep) ; Thomas, George (Thomas, George) ; Mahmood, Haider (Mahmood, Haider) ; Paruthi, Mandakini (Paruthi, Mandakini) ; Yu, Zhang (Yu, Zhang)

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SUSTAINABILITY

Volume: 13 **Issue:** 19
Article Number: 10705
DOI: 10.3390/su131910705
Published: OCT 2021
Indexed: 2021-10-27
Document Type: Article

Abstract

Owing to the novelty and dynamism of mobile phone shopping behavior of adults within the context of contemporary social, technological, and market norms necessitated the need to study this phenomenon frequently. In the same league, there is a pressing need to empirically examine the mobile shopping behavior of young adults in Pakistan. This paper examines the factors influencing mobile phone shopping behavior within the context of young adults in Pakistan. First, a questionnaire-based survey consisting of a five-point Likert scale was conducted. A total of 416 respondents provided their complete responses. Then, we employed the structural equation modeling (SEM) model using AMOS 24 to empirically test the hypothesized model. The empirical results revealed that price and attractiveness positively influence mobile phone buying behavior among young adults in Pakistan. On the other hand, Service Encounter, Convenience, Avoidance of Core Service Failure, and Response have negative but statistically insignificant influences on mobile phone buying behavior in Pakistan. This finding revealed that

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Documents

Kumar, P., Paul, A., Anil Kumar, M.

Risk optimisation analytics: A case study on Brown Research Associates India (BRAI)
(2021) *International Journal of Social Ecology and Sustainable Development*, 12 (2), pp. 48-62.

2-s2.0-85103564163
Document Type: Article
Publication Stage: Final
Source: Scopus

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Documents

Teja Prathipati, S.R.R., Rao, C.B.K., Dakshina Murthy, N.R.

Mechanical behavior of hybrid fiber reinforced high strength concrete with graded fibers
(2020) *International Journal of Engineering, Transactions B: Applications*, 33 (8), pp. 1465-1471. Cited 13 times.

2-s2.0-85091945059
Document Type: Article
Publication Stage: Final
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Documents

Seshu, D.R., Murthy, N.R.D.

A study on fly ash cement mortar as brick masonry [Zaprawa murarska z dodatkiem popiołu lotnego]
(2020) *Cement, Wapno, Beton*, 2020 (1), pp. 45-51. Cited 2 times.

2-s2.0-85084359398
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Poojari, Y., Kampilla, V.

Strength behavior analysis of fiber reinforced fly ash concrete
(2020) *Materials Today: Proceedings*, 43, pp. 1659-1665. Cited 5 times.

2-s2.0-85104247442
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

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Documents

Damera, H., Murthy, N.R.D., Rao, N.V.R.

Mechanical and durability studies on blended pozzolonic concretes with fly ash recycled aggregates
(2020) *Materials Today: Proceedings*, 27, pp. 1522-1529. Cited 2 times.

2-s2.0-85087808238
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

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Documents

Kandula, J., P, U.S., P, R.R., Gugulothu, S.K.

Experimental investigation of near-wake characteristics of hydrodynamic cavitating flow around circular cylindrical pins of different geometries with and without ultrasonic transducers
(2020) *Advances in Materials and Processing Technologies*, . Cited 1 time.

2-s2.0-85097833043
Document Type: Article
Publication Stage: Article in Press
Source: Scopus

Lecture Notes in Mechanical Engineering • Pages 217 - 225 • 2020 • 2nd International Conference on Innovations in Mechanical Engineering, ICIME 2019 • Hyderabad • 4 January 2019through 5 January 2019 • Code 236449

Document type
Conference Paper

Source type
Book Series

ISSN
21954356

ISBN
978-981151123-3

DOI
10.1007/978-981-15-1124-0_19

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A Comparative Study on Performance of 3D-Printed EDM Electrode with Conventional EDM Electrode

Mahipal Reddy L.[a] ; Siva Rama Krishna L.[a] ; Sharath Kumar S.[a] ; Ravinder Reddy P.[b]

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[a] Department of Mechanical Engineering, UCE (A), Osmania University, Hyderabad, India

[b] Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract

Materials Today: Proceedings • Volume 37, Issue Part 2, Pages 1743 - 1747 • 2020 • International Conference on Newer trends and Innovations in Mechanical Engineering, ICONTIME 2020 • Trichy, Tamil Nadu • 27 March 2020through 28 March 2020 • Code 145098

Document type
Conference Paper

Source type
Journal

ISSN
22147853

DOI
10.1016/j.matpr.2020.07.357

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Comparative analysis of the orientation dependent tensile deformation of commercially pure titanium and titanium alloy OT 4-1

Vemula, Ananda Mohan[a] ; Reddy, G. Chandra Mohan[b]; Hussain, M. Manzoor[a]

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[a] Department of Mechanical Engineering, Jawaharlal Nehru Technological University, Hyderabad, Telangana State, India

[b] Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India

Abstract

International Journal of Mechanical and Production Engineering Research and Development • Volume 10, Issue 2, Pages 1031 - 1038 • April 2020

Document type
Article

Source type
Journal

ISSN
22496890

DOI
10.24247/ijmperdapr2020100

View more

Butanol blend reduces pollutants in spark ignition engine

Mohanti, Ipsita[a]; Krishna, M. V. S. Murali[a]; Chandra, M. Ravi[b]

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[a] Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana, India

[b] Department of Mechanical Engineering, Gayatri Vidyaparishad College of Engineering, Madhurawada, Visakhapatnam, Andhra Pradesh, India

Abstract

Tests were taken to determine exhaust emissions of a petrol engine having cuprum sprayed engine [CuE, Cuprum of thick, 0.3 mm) sprayed on the top portion of the piston and interior portion of cylinder head] coupled with catalytic converter (CC) with iron of sponge as oxidizer with two fuels ofpetrol and petroleum mixed with butanol (85% petrol and 15% butanol by V) and correlated with data of standard engine (SE) with operation of petrol. The effects of variables of engine with variety

Arabian Journal for Science and Engineering • Volume 45, Issue 2, Pages 1173 - 1180 • 1 February 2020

Document type
Article

Source type
Journal

ISSN
2193567X

DOI
10.1007/s13369-019-04263-1

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Selective Laser Melting of Single Track on Ti–6Al–4V Powder: Experimentation and Finite Element Analysis

Hussain, Manowar[a]; Gupta, Pranshul[b] ; Kumar P.[d]; Das A.K.[c]

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[a] Department of Mechanical Engineering, CBIT, Gandipet, Hyderabad, 500075, Telangana, India

[b] Department of Mechanical Engineering, Indian Institute of Technology (ISM), Dhanbad, 826004, Jharkhand, India

[c] Indian Institute of Technology (ISM) Dhanbad, Dhanbad, 826004, Jharkhand, India

[d] S R Engineering College, Warangal, 506371, Telangana, India

Abstract

Advances in Intelligent Systems and Computing • Volume 979, Pages 449 - 456 • 2020 • International Conference on Numerical Optimization in Engineering and Sciences, NOIEAS 2019 • Warangal • 19 June 2019through 21 June 2019 • Code 239779

Document type
Conference Paper

Source type
Book Series

ISSN
21945357

ISBN
978-981153214-6

DOI
10.1007/978-981-15-3215-3_44

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Optimization of Micro-electro Discharge Drilling Parameters of Ti6Al4V Using Response Surface Methodology and Genetic Algorithm

Kumar, Pankaj[a] ; Hussain, Manowar[b]

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[a] Department of Mechanical Engineering, Centre for Materials and Manufacturing, S R Engineering College, Warangal, India

[b] Department of Mechanical Engineering, CBIT, Gandipet, Hyderabad, 500075, Telangana, India

Abstract

Prediction and comparison of the dilution and heat affected zone in submerged arc welding (SAW) of low carbon alloy steel joints

By: Sailender, Mamunuri (Sailender, Mamunuri) ; Suresh, R. (Suresh, R.) ; Reddy, G. Chandramohan (Reddy, G. Chandramohan) ; Venkatesh, Sriram (Venkatesh, Sriram)

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MEASUREMENT

Volume: 150
Article Number: 107084
DOI: 10.1016/j.measurement.2019.107084
Published: JAN 2020
Indexed: 2019-11-04
Document Type: Article

Abstract

The present investigation has been made to realize the effect of submerged arc welding (SAW) process parameters in 'Purging' condition and has been compared to the traditional 'as weld' condition. It uses open-circuit-voltage (OCV), wire-feed-rate (WFR), welding-speed (WS) and nozzle-to-plate distance (NPD) as process parameters. The design of experiments is utilized to carryout efficient experimentation and multiple regression analysis is to build mathematical models to foresee responses like dilution and heat affected zone. The performance evaluation of control levels, which has been shown through the S/N ratio, its significance, along contributions is computed via ANOVA. The models are developed to build correlation among the parameters. The Grey Relational Analysis (GRA) is to normalize and optimize the results. These developed models are adequate; GRA responses are agreeable and are found to be within limits through confirmation tests. Results indicate that the best combination for Heat Affected Zone (HAZ) minimization is lower level of OCV and higher levels of WFR, WS and NPD; High dilution, in percentage, in both welding conditions. The Purging condition values

International Journal on Electrical Engineering and Informatics • *Open Access* • Volume 12, Issue 3, Pages 418 - 430 • September 2020

Critical elements based optimal pmu placement considering substation coverage

Babu, N. V. Phanendra[a] ; Babu, P. Suresh[b] ;

Sarma, D. V. S. S. Siva[b]

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[a] Dept. of EEE, CBIT Hyderabad, India

[b] Dept. of Electrical Engineering, NIT Warangal, India

Lecture Notes in Networks and Systems • Volume 107, Pages 171 - 183 • 2020

Performance of BLDC Motor for Enhancing the Response of Antenna's Positioner Using PI Controller

Suresh Kumar, Bhaskaruni[a] ; Varun Raj D.[b] ; Praveena, Segu[c]

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[a] Associate Professor, CBIT, Gandipet, Hyderabad, India

[b] PG Scholar, CBIT, Gandipet, Hyderabad, India

[c] Asst. Professor, MGIT, Gandipet, Hyderabad, India

International Transactions on Electrical Energy Systems • *Open Access* • Volume 30, Issue 4 • 1 April 2020 • Article number e12282

Control and state of charge balancing algorithm for modular multilevel STATCOM with distributed ultracapacitor-based energy storage system at the DC link

Bharadwaj, Anil[a] ; Maiti, Suman[b]

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[a] Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad, India

[b] Department of Electrical Engineering, Indian Institute of Technology Kharagpur, Kharagpur, India

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Subject area
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1	Analysis of Ionospheric Scintillations of NavIC L5 and S -band Signals over Low Latitude Indian Region *Open Access*	Praveena, K., Kumar, P.N., Reddy, D.K., Santhosh, N.	2020	Procedia Computer Science 171, pp. 989-998	1

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1	Predictive Data Optimization of Doppler Collision Events for NavIC System	Sathish, P., Krishna Reddy, D.	2020	Advances in Intelligent Systems and Computing 979, pp. 583-589	0

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HAR-Depth: A Novel Framework for Human Action Recognition Using Sequential Learning and Depth Estimated History Images

Published in IEEE Transactions on Emerging Topics in Computational Intelligence in October, 2021

ABSTRACT

Human action recognition (HAR) is a challenging task due to the presence of the pose and temporal variations in the action videos. To address these challenges, HAR-Depth is proposed in this paper with sequential and shape learning along with the novel concept of depth history image (DHI). A deep bidi-

AUTHORS

Sahoo, Suraj Prakash; Ari, Samit; Mahapatra, Kamalakanta; Mohanty, Sarat

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1	HAR-Depth: A Novel Framework for Human Action Recognition Using Sequential Learning and Depth Estimated History Images	Sahoo, S.P., Ari, S., Mahapatra, K., Mohanty, S.P.	2021	IEEE Transactions on Emerging Topics in Computational Intelligence 5(5), pp. 813-825	0

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1	A hand-held optoelectronic tongue for the identification of heavy-metal ions	Pan, Y., Liu, X., Qian, L., (...), Wang, P., Wang, D.	2022	Sensors and Actuators B: Chemical 352,130971	1
2	Smart water quality monitoring system with cost-effective using IoT *Open Access*	Pasika, S., Gandla, S.T.	2020	Heliyon 6(7),e04096	34
3	On the use of an IoT integrated system for water quality monitoring and management in wastewater treatment plants *Open Access*	Martínez, R., Vela, N., el Aatik, A., (...), Roche, P., Navarro, J.M.	2020	Water (Switzerland) 12(4),1096	22
4	Automated IoT based Smart Water Quality Assessment System	Pant, D., Bhatt, A., Khan, M., Nautiyal, O.P., Adhikari, P.	2020	Proceedings of the 2019 8th International Conference on System Modeling and Advancement in Research Trends, SMART 2019 9117271, pp. 98-104	1
5	Static, portable and smart detection of water quality in panchayath distribution tank *Open Access*	Jeya Daisy, I., Vinoth Kumar, B.	2019	International Journal of Recent Technology and Engineering 8(2 Special issue 5), pp. 103-108	0

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Smart water quality monitoring system with cost-effective using IoT

Published in Heliyon on July 01, 2020

ABSTRACT

Wireless communication developments are creating new sensor capabilities. The current developments in the field of sensor networks are critical for environmental applications. Internet of Things (IoT) allows connections among various devices with the ability to exchange and gather data. IoT also...

AUTHORS

Pasika, Sathish; Gandla, Sai Teja

IDENTIFIERS

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doi.org/10.1016/J.HELIYON.2020.E04096

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1	Comparative analysis of texture patterns on mammograms for classification *Open Access*	Darapureddy, N., Karatapu, N., Battula, T.K.	2021	Traitement du Signal 38(2), pp. 379-386	0
2	Density map and fuzzy classification for breast density by using BI-RADS	Valencia-Hernandez, I., Peregrina-Barreto, H., Reyes-Garcia, C.A., Lopez-Armas, G.C.	2021	Computer Methods and Programs in Biomedicine 200,105825	2
3	Robust Texture Features for Breast Density Classification in Mammograms	Li, H., Mukundan, R., Boyd, S.	2020	16th IEEE International Conference on Control, Automation, Robotics and Vision, ICARCV 2020 9305431, pp. 454-459	3
4	Integrative blockwise sparse analysis for tissue characterization and classification *Open Access*	Zheng, K., Harris, C.E., Jennane, R., Makrogiannis, S.	2020	Artificial Intelligence in Medicine 107,101885	4
5	Automated pectoral muscle identification on MLO-view mammograms: Comparison of deep neural network to conventional computer vision *Open Access*	Ma, X., Wei, J., Zhou, C., (...), Hadjiiski, L.M., Lu, Y.	2019	Medical Physics 46(5), pp. 2103-2114	7

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Comparative Analysis of Texture Patterns on Mammograms for Classification

Published in Traitement du Signal on April 30, 2021

ABSTRACT

Breast cancer is a cancerous tumor that arrives within the tissues of the breast. Women are mostly attacked than men. To detect early cancer medical specialists, suggest mammography for screening. Algorithms in Machine learning were executed on mammogram images to classify whether the

AUTHORS

Darapureddy, Nagadevi; Karatapu, Nagaprakash; Battula, Tirumala Krishna

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- International Journal Of Recent Technology And Engineering (1)

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2	Hybrid tile based feature extraction and support vector machine base content-based image retrieval system for medical application *Open Access*	Malathy, M., Rajinikanth, C., Mohan, V., Yuvaraja, T.	2019	International Journal of Recent Technology and Engineering 8(3), pp. 3305-3310	1

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2	A sturdy nonlinear hyperspectral unmixing algorithm using iterative block- coordinate descent algorithm *Open Access*	Sireesha, M.V., Naganjaneyulu, P.V., Babulu, K.	2019	International Journal of Intelligent Engineering and Systems 12(3), pp. 166-177	2
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A Sturdy Nonlinear Hyperspectral Unmixing

Published in IETE Journal of Research on November 10, 2020

ABSTRACT

Hyperspectral unmixing (HSU) is a way to process the prediction of the existing endmembers and the fractional abundances (FA) available in all pixels in the hyperspectral images. However, in a practical scenario, hyperspectral image is frequently corrupted due to many types of noises at the time

AUTHORS

Venkata Sireesha, M.; Naganjaneyulu, P. V.; Babulu, K.

IDENTIFIERS

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- Tallapragada, V.V.S. (1)

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1	Mixed image denoising using weighted coding and non-local similarity *Open Access*	Tallapragada, V.V.S., Manga, N.A., Kumar, G.V.P., Naresh, M.V.	2020	SN Applied Sciences 2(6),997	1

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Author name
- Dhana Lakshmi, N. (1)
- Sai Ram, S.M. (1)

Subject area
- Engineering (1)

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	Document title	Authors	Year	Source	Cited by
1	CONFIGURING APPROPRIATE ARTIFICIAL NEURAL NETWORK WITH MONARCH BUTTERFLY OPTIMIZATION FOR SPEAKER RECOGNITION	Dhana Lakshmi, N., Sai Ram, S.M.	2020	ARPN Journal of Engineering and Applied Sciences 15(3), pp. 423-436	0

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1	Performance comparison of techniques for interference coordination in hetnets of LTE-a *Open Access*	Jyothsna, K.S.R.S., Babu, T.A., Murray, J.M.	2020	International Journal of Electrical Engineering and Technology 11(4), pp. 141-149	0

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1	Dither Filtering of Real RLG Signal Using Wavelet Transforms	Bharath Regimanu, Das, K.C., Rao, K.S., Koteswara Rao, N.V.	2019	Gyroscopy and Navigation 10(4), pp. 275-282	1

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Documents

Prasuna, P.M., Ramadevi, Y., Babu, A.V.

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(2020) *International Journal of Safety and Security Engineering*, 10 (6), pp. 777-784.

2-s2.0-85099128011
Document Type: Article
Publication Stage: Final
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Documents

Gupta, S., Godavarti, R.

IoT data management using cloud computing and big data technologies
(2020) *International Journal of Software Innovation*, 8 (4), pp. 50-58. Cited 8 times.

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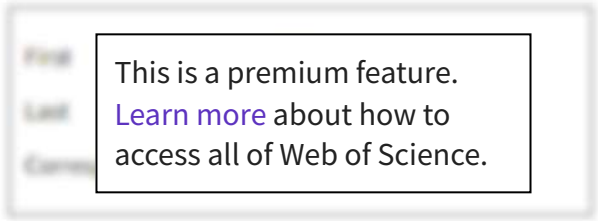

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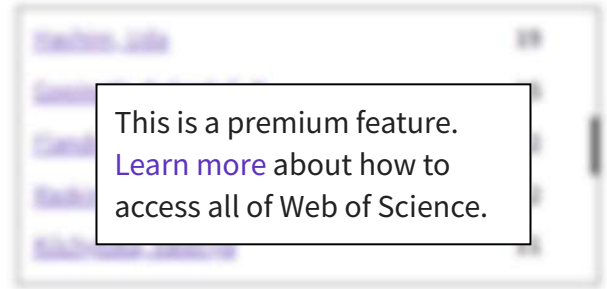

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International Journal of Advanced Science and Technology

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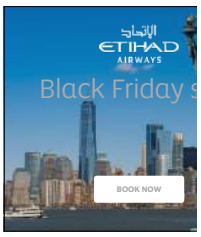

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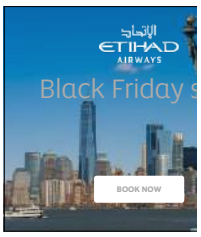

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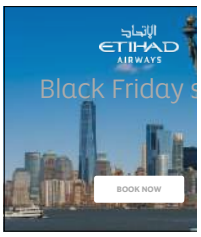

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Documents

Bodapati, S.[a] , Bandarupally, H.[b] , Trupthi, M.[c]

COVID-19 Time Series Forecasting of Daily Cases, Deaths Caused and Recovered Cases using Long Short Term Memory Networks

(2020) *2020 IEEE 5th International Conference on Computing Communication and Automation, ICCCA 2020*, art. no. 9250863, pp. 525-530. Cited 14 times.

DOI: 10.1109/ICCCA49541.2020.9250863

[a] Jp Morgan Chase Co., Hyderabad, India
[b] Chaitanya Bharathi Institue of Technology Hyderabad, Computer Science and Engineering, India
[c] Chaitanya Bharathi Institue of Technology, Information Technology, Hyderabad, India

Abstract
Novel Coronavirus (COVID-19) outbreak that emerged originally in Wuhan, the Hubei province of China has put the entire human race at risk. This virus was declared as Pandemic on 11th March 2020. Considering the massive growth rate in the number of cases and highly contagious nature of the virus, machine learning prediction models and algorithms are essential to predict the number of cases in the coming days. This could help in reducing the stress on health care systems and administrations by helping them plan better. In this paper the datasets used are obtained from the John Hopkins University's publicly available datasets to develop a state-of-the-art forecasting model of COVID-19 outbreak. We have incorporated data-driven estimations and time series analysis to predict the trends in coming days such as the number of cases confirmed positive, number of deaths caused by the virus and number of people recovered from the novel coronavirus. To achieve the estimations, we have used the Deep learning model long-shortterm memory network (LSTM). © 2020 IEEE.

Author Keywords
Artificial Neural Networks; Corona-virus; COVID-19; Deep learning; Long-Short-Term Memory (LSTMs); Pandemic

Index Keywords
Deep learning, Forecasting, Learning systems, Predictive analytics, Time series analysis, Viruses; Forecasting modeling, Health-care system, John Hopkins University, Number of peoples, Prediction model, Short term memory, State of the art, Time series forecasting; Long short-term memory

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Lakshmi Harika, G.[a] , Chowdary, H.[a] , Satya Kiranmai, T.[b]

Cloud-based Internet of things for smart water consumption monitoring system
(2020) *Proceedings of the 5th International Conference on Communication and Electronics Systems, ICCES 2020*, art. no. 09138074, pp. 967-972. Cited 1 time.

DOI: 10.1109/ICCES48766.2020.09138074

[a] Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India
[b] Department of IT, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India

Abstract
The levels at which groundwater is depleting around the world is alarming and there is an impending necessity to be judicious with water usage. This led to the formulation of a consolidated architecture to monitor water consumption at the household level. Internet of Things (IoT) is combined with the Thingspeak Cloud Computing platform and Android Studio to facilitate an efficient dashboard for consumers. The proposed model aims at imbibing a sense of responsibility in the citizens as it helps keep a track of water usage periodically using visually appealing charts, lays down the monthly water utility costs as well as provides tips with all in the form of a compact android application in their phones that is needed to be proactive and conserve resources. This paper presents a tested prototype and the pipeline connecting the hardware and software components responsible for streamlining the process of data transfer from IoT to cloud and from cloud to the android application. An overview of the promising technologies and frameworks that have been orchestrated in the development of the system as well as results obtained are thus provided. © 2020 IEEE.

Author Keywords
Android Studio; Internet of Things(IoT); Thingspeak Cloud; Water Consumption Monitoring System

Index Keywords
Android (operating system), Application programs, Data transfer, Groundwater, Software testing, Water supply; Android applications, Cloud computing platforms, Conserve resources, Consolidated architecture, Hardware and software components, Internet of Things (IOT), Monitoring system, Water consumption; Internet of things

Publisher: Institute of Electrical and Electronics Engineers Inc.

2-s2.0-85091340075
Document Type: Conference Paper
Publication Stage: Final
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Documents

Kunta, V., Tuniki, C., Sairam, U.

Multi-functional blind stick for visually impaired people
(2020) *Proceedings of the 5th International Conference on Communication and Electronics Systems, ICCES 2020*, art. no. 09137870, pp. 895-899. Cited 11 times.

DOI: 10.1109/ICCES48766.2020.09137870

Dept. of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract
One of the biggest problems faced by the visually impaired is navigating from place to place, be it indoors or outdoors. Further, the adverse conditions of the roads make it even more difficult for them to walk outdoors. They have to be alert at all times to avoid consequences like colliding with stable or moving obstacles, ascending or descending staircases, slipping down wet terrain. Also, at times they may be in distress and might want to send an alert message to their relatives or friends about their whereabouts. These problems of blind people can be addressed with the intervention of technology. The proposed solution employs the Internet of Things (IoT) paradigm to provide a medium between the blind and the environment. Several sensors can be used to detect anomalies like obstacles, staircases and wet terrains respectively. The prototype discussed here is a simple, sophisticated and affordable smart blind stick equipped with various IoT sensors and modules. Also, this solution provides a way to send a message about the whereabouts of the user to the concerned people. Adding to the above, a software application is designed to help the acquaintances of the blind to manage the stick's configuration ex: add or delete phone numbers to which alert messages have to be sent. Misplacing the stick indoors can also be a substantial issue. This solution also addresses this problem. © 2020 IEEE.

Author Keywords
Alert messages; Finding misplaced stick; Obstacle detection; Smart blind stick using IoT; Wet terrain detection

Index Keywords
Application programs, Stairs; Blind people, Internet of thing (IOT), Moving obstacles, Multi-functional, Phone number, Software applications, Visually impaired, Visually impaired people; Internet of things

Publisher: Institute of Electrical and Electronics Engineers Inc.

2-s2.0-85091338708
Document Type: Conference Paper
Publication Stage: Final
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Documents

Adepu, Y., Boga, V.R., Sairam, U.

Interviewee Performance Analyzer Using Facial Emotion Recognition and Speech Fluency Recognition
(2020) *2020 IEEE International Conference for Innovation in Technology, INOCON 2020*, art. no. 9298427, . Cited 3 times.

DOI: 10.1109/INOCON50539.2020.9298427

Chaitanya Bharathi Institute of Technology, Department of Information Technology, Hyderabad, India

Abstract
Analysis of the performance of an interviewee is a complex and challenging task. Our proposed system automates this process by building two multiclass classification models. Video captured during an interview is given to the proposed system which extracts frames and Audio from it. Frames are given to the first model which is a facial emotion recognition model it uses HaarCascade classifier, Gabor filters, and Convolution Neural Network for classification of facial emotion as one of these seven emotions like Happy, surprise, angry, disgust, neutral, fear, sadness. Audio is given to the second model which uses Mel frequency cepstral coefficient features and logistic regression for speech classification as four classes Fluent, Stuttering, Cluttering, and Pauses. Predictions of these two models can be combined to give a performance rating for the interviewee. Compared to only CNN based and Deep Neural Network based facial emotion recognition, the Gabor Filter based approach which we have used gave better accuracy with a smaller number of hidden layers and less training time. © 2020 IEEE.

Author Keywords
Convolution Neural Networks; Deep Neural Networks; Gabor Filters; HaarCascade Classifier; Logistic Regression; Mel Frequency Cepstral Coefficients

Index Keywords
Classification (of information), Deep neural networks, Engineering research, Face recognition, Gabor filters, Logistic regression, Multilayer neural networks; Convolution neural network, Facial emotions, Hidden layers, Mel frequency cepstral co-efficient, Multi-class classification, Performance ratings, Speech classification, Training time; Speech recognition

Publisher: Institute of Electrical and Electronics Engineers Inc.

2-s2.0-85099571399
Document Type: Conference Paper
Publication Stage: Final
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Documents

Hyndavi, V., Sai Nikhita, N., Rakesh, S.

Smart wearable device for women safety using IoT

(2020) *Proceedings of the 5th International Conference on Communication and Electronics Systems, ICCES 2020*, art. no. 09138047, pp. 459-463. Cited 13 times.

DOI: 10.1109/ICCES48766.2020.09138047

Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract
The crimes against women have been rising significantly and often hear about molestation, eve-teasing and rape cases in the public places of the society. The security of women is the most important concern these days and to build a safety device to act as a rescue and to prevent from harm at the time of hazard is highly necessary especially for women. In this paper, a smart device for women's safety which automates the emergency alert system by using pressure sensor,pulse-rate sensor and temperature sensor to detect a possible atrocity automatically using outlier detection is proposed. This system detects and sends the alerts for the dear ones with the location coordinates of the women without the requirement of her interaction in critical times. It sends an emergency message automatically to the relatives and nearby police station. © 2020 IEEE.

Author Keywords
GPS; GSM; Internet of Things (IoT); Pressure sensor; Pulse-rate sensor; Smart Device; Temperature sensor; Women Safety

Index Keywords
Wearable sensors; Emergency alert system, Emergency messages, Police station, Public places, Pulse rate, Smart devices, Smart wearables; Internet of things

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Documents

Balusu, N.[a] , Pabboju, S.[b] , Narsimha G.[c]

Swarm optimization based gravitational search approach for channel assignment in MCMR wireless MESH network
(2020) *International Journal of Computer Networks and Communications*, 12 (3), pp. 41-54. Cited 1 time.

DOI: 10.5121/ijcnc.2020.12303

[a] Department of Computer Science, Telangana University, Nizamabad, Telangana, India
[b] Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana State, India
[c] Department of Computer Science, JNTUH College of Engineering, Hyderabad, Telangana, India

Abstract
Wireless Mesh Networks offers cost-efficient and higher network efficiency by utilizing multiple channels multiple radio(MCMR) nodes. Also addition, the amalgamation of multiple radio nodes and multiple hops mesh framework tends to overcome the limitation of single radio networks like the ability to achieve the rising accessible system bandwidth. In spite of these benefits, certain MCMR wireless mesh networks still suffer from performance issues like network connectivity, network throughput degradation whenever network size increases. Thus, an effective channel assignment (CA) approach could minimize the number of interference co-channels and enhance the throughput of the network. Thus, a hybridized form of gravitational search approach and particle swarm optimization is presented in this paper to resolve the issue of CA. The velocity and position updates of PSO are merged with the GSA operations to obtain the best channel with good connectivity. This approach maximizes the capability of exploration and exploitation for global and local searches using PSO and GSA operations. The goal of this methodology is the minimization of a number of interfering links and the maximization of network connectivity and throughput. The experimental results for this approach are carried out using NS2 and compared with previously suggested heuristic optimization algorithms such as Learning Automated and Genetic Algorithm Approach, Improved Gravitational Search Approach and Dynamic particle swarm optimization Approach. The simulation outcome showed a better performance of the suggested methodology compared to existing methodologies. © 2020, Academy and Industry Research Collaboration Center (AIRCC).

Author Keywords
Channel assignment; Gravitational search algorithm; Multi-channel multi-radio; Particle swarm optimization; Wireless mesh network

Publisher: Academy and Industry Research Collaboration Center (AIRCC)

2-s2.0-85088841137
Document Type: Article
Publication Stage: Final
Source: Scopus

Scopus

Documents

Prathi, J.K., Raparthi, P.K., Gopalachari, M.V.

Real-Time Aspect-Based Sentiment Analysis on Consumer Reviews
(2020) *Advances in Intelligent Systems and Computing*, 1079, pp. 801-810. Cited 1 time.

DOI: 10.1007/978-981-15-1097-7_67

Department of CSE, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract
The rise of e-commerce websites, as new shopping channels, led to an upsurge of review sites for a wide range of services and products. This provides an opportunity to use aspect-based sentiment analysis and mine opinions expressed from text which can help consumers decide what to purchase and businesses to better monitor their reputation and understand the needs of the market. Aspect-based sentiment analysis (ABSA) is a technique aimed to foster research beyond sentence or text-level sentiment classification. The goal is to identify opinions expressed about specific entities (e.g., laptops) and their aspects (e.g., price, performance, build quality, etc.). There exist very few techniques which can generate such results based on customer ratings, however usually for a limited set of pre-defined aspects and not from free-text reviews. The other challenge in this process is cold start problem because of the lack of enough review data for a product. In this paper, a methodology is proposed to automatically compute sentiments of dynamic aspects from user-generated reviews from the web scraping from multiple sources to overcome the cold start problem. Therefore, this methodology is devising a better solution for understanding sentiments in e-commerce than existing methods. © Springer Nature Singapore Pte Ltd 2020.

Author Keywords
Aspect-based sentiment analysis; Cold start; Data integration; Web scraping

Index Keywords
Electronic commerce, Sentiment analysis, Starting; Cold start, Cold start problems, Consumer reviews, E-commerce websites, Multiple source, Real time aspects, Sentiment classification, Web scrapings; Data integration

Publisher: Springer

2-s2.0-85078472821
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

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Documents

Bodapati, S., Reddy, S., Katta, S.

Realistic handwriting generation using recurrent neural networks and long short-term networks
(2020) *Advances in Intelligent Systems and Computing*, 1090, pp. 651-661. Cited 1 time.

DOI: 10.1007/978-981-15-1480-7_55

Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract
Generating human-like handwriting by machine from an input text given by the user may seem as an easy task but is very complex in reality. It might not be possible for every human being to write in perfect cursive handwriting because each letter in cursive gets shaped differently depending on what letters surround it, and everyone has a different style of writing. This makes it very difficult to mimic a person's cursive style handwriting with the help of a machine or even by hand for a matter of fact. This is why signing names in cursive is preferable on any legal documents. In this paper, we will try to use various deep learning methods to generate human-like handwriting. Algorithms using neural networks enable us to achieve this task, and hence, recurrent neural networks (RNN) have been utilized with the aim of generating human-like handwriting. We will discuss the generation of realistic handwriting from the IAM Handwriting Database and check the accuracy of our own implementation. This feat can be achieved by using a special kind of recurrent neural network (RNN), the Long Short-Term Memory networks (LSTM). © Springer Nature Singapore Pte Ltd. 2020.

Author Keywords
Handwriting generation; IAM handwriting database; Long Short-Term Memory networks (LSTM); Recurrent neural networks (RNN)

Index Keywords
Deep learning, Learning systems; Human being, Human like, Learning methods, Legal documents, Recurrent neural network (RNN), Short term, Short term memory; Long short-term memory

Publisher: Springer

2-s2.0-85083963778
Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

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Documents

Sugamya, K.[a] , Suresh, P.[a] , Vinaya Babu, A.[b] , Akhila, R.[a]

CBIR using SIFT with LoG, DoG and PCA
(2020) *Advances in Intelligent Systems and Computing*, 1079, pp. 623-637. Cited 2 times.

DOI: 10.1007/978-981-15-1097-7_52

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[b] SCET, Hyderabad, India

Abstract
Content based image retrieval using scale invariant feature remodel (SIFT) is employed to discover stable keypoint locations within the scale-space. The extraction of image options can be done by exploiting SIFT or K-means cluster. In the proposed work we can find feature extraction and locating scale-space extrema through SIFT-DoG & SIFT-LoG ways. Finally, planned ways, SIFT-DoG, SIFT-LoG, and PCA are compared. © Springer Nature Singapore Pte Ltd 2020.

Author Keywords
Difference of gaussians (DoG); Laplacian of gaussians (LoG); Scale invariant feature transform (SIFT)

Index Keywords
Content based retrieval, K-means clustering; Content based image retrieval, Difference of Gaussians, Gaussians, Keypoint, Scale invariant feature transforms, Scale invariant features, Scale spaces; Extraction

Publisher: Springer

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Document Type: Conference Paper
Publication Stage: Final
Source: Scopus

Scopus

Documents

Mandhula, T.[a] , Pabboju, S.[b] , Gugulotu, N.[c]

Predicting the customer's opinion on amazon products using selective memory architecture-based convolutional neural network

(2020) *Journal of Supercomputing*, 76 (8), pp. 5923-5947. Cited 15 times.

DOI: 10.1007/s11227-019-03081-4

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[b] Deptartment of Information Technology, CBIT, Gandipet, Hyderabad, 75, India
[c] Computer Science Engineering, College of Engineering, JNTUH, Hyderabad, 85, India

Abstract
Opinion mining and sentiment analysis are useful to extract subjective information out of bulk text documents. Predicting the customer's opinion on amazon products has several benefits like reducing customer churn, agent monitoring, handling multiple customers, tracking overall customer satisfaction, quick escalations, and upselling opportunities. Though performing sentiment analysis is a challenging task for the researchers to identify the user's sentiments from the large datasets, it is unstructured in nature, and also includes slangs, misspells, and abbreviations. To address this problem, a new proposed system is developed in this research study. Here, the proposed system comprises of four major phases; they are data collection, pre-processing, keyword extraction, and classification. Initially, the input data were collected from the dataset: amazon customer review. After collecting the data, pre-processing was carried out for enhancing the quality of collected data. The pre-processing phase comprises of three systems: lemmatization, review spam detection, and removal of stop words and URLs. Then, an effective topic modelling approach latent Dirichlet allocation along with modified possibilistic fuzzy C-Means was applied to extract the keywords and also helps in identifying the concerned topics. The extracted keywords were classified into three forms (positive, negative, and neutral) by applying an effective machine learning classifier: Selective memory architecture-based convolutional neural network. The experimental outcome showed that the proposed system enhanced the accuracy in sentiment analysis up to 6–20% related to the existing systems. © 2019, Springer Science+Business Media, LLC, part of Springer Nature.

Author Keywords
Adam optimization algorithm; Convolutional neural network; Latent Dirichlet allocation; Lemmatization; Modified possibilistic fuzzy c-means; Sentiment analysis

Index Keywords
Computational linguistics, Convolution, Customer satisfaction, Data acquisition, Data handling, Data mining, Fuzzy neural networks, Fuzzy systems, Large dataset, Learning systems, Memory architecture, Sales, Sentiment analysis, Statistics; Convolutional neural network, Fuzzy C mean, Latent Dirichlet allocation, Lemmatization, Optimization algorithms; Network architecture

Publisher: Springer

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Document Type: Article
Publication Stage: Final
Source: Scopus

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Documents

Sairam, U.[a] , Bhanu Prakash, M.V.[b]

DI and ml approaches along with blockchain towards iot security

(2020) *International Journal of Advanced Science and Technology*, 29 (4 Special Issue), pp. 826-832. Cited 1 time.

[a] Department of Information Technology, ChaitanyaBharathi Institute of Technology, India
[b] Department of CSE, Rajiv Gandhi University of Knowledge Technologies, India

Abstract
Even though the usage of IoT is raising quickly, it is riddled with scalability, security, personal privacy as well as honesty problems. Despite the fact that blockchain was originally developed for managing cryptocurrencies, its decentralized nature, higher security, integrity and personal privacy has actually resulted in being incorporated with IoT in order to enhance it. There are several challenges occurring from this integration which increases the complexities. The goal of this work is to offer a thorough study of ML approaches as well as current advances in DL approaches that can be used to establish improved security approaches for IoT systems. © 2020 SERSC.

Author Keywords
Blockchain technology; DL; IoT security; ML

Publisher: Science and Engineering Research Support Society

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Document Type: Article
Publication Stage: Final
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Documents

Ratna Raju, A.[a] , Pabboju, S.[b] , Rajeswara Rao, R.[c]

Brain image classification using dual-tree m-band wavelet transform and Naïve Bayes classifier
(2020) *Advances in Intelligent Systems and Computing*, 1125, pp. 635-642. Cited 3 times.

DOI: 10.1007/978-981-15-2780-7_69

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[b] Department of Information Technology, Hyderabad, 500075, India
[c] Jawaharlal Nehru Technological University, University College of Engineering, Hyderabad, India

Abstract
A cell which is abnormal inside the brain is referred to as brain tumor. Reproduction of a tumor cell is uncontrollable. The tumor does not spread to other parts of the body. Early diagnosis of a brain tumor is based on tumor size, location and type. In this study, a technique is discussed for magnetic resonance imaging (MRI) classification of brain image using dual-tree M-band wavelet transform (DTWT) to extract the different entropy features: Shannon entropy, approximate entropy and sample entropy, and finally Naïve Bayes (NB) classifier is used for classification. Initially, the normal and abnormal categories of MRI brain images are decomposed by DTWT to extract the aforementioned entropy features. The features which are extracted are directly applied to NB classifier. Results show that DTWT and NB classifier-based system provides 97% accuracy, 98% specificity and 96% sensitivity for MRI brain image classification. © Springer Nature Singapore Pte Ltd. 2020.

Author Keywords
DTWT; Entropy features; MRI brain image; NB classifier

Index Keywords
Barium compounds, Brain, Brain mapping, Cell proliferation, Diagnosis, Image compression, Intelligent computing, Magnetic resonance imaging, Sodium compounds, Tumors, Wavelet transforms; Approximate entropy, Bayes Classifier, Brain images, Brain tumors, Early diagnosis, M-band wavelet transform, Sample entropy, Shannon entropy; Image classification

Publisher: Springer

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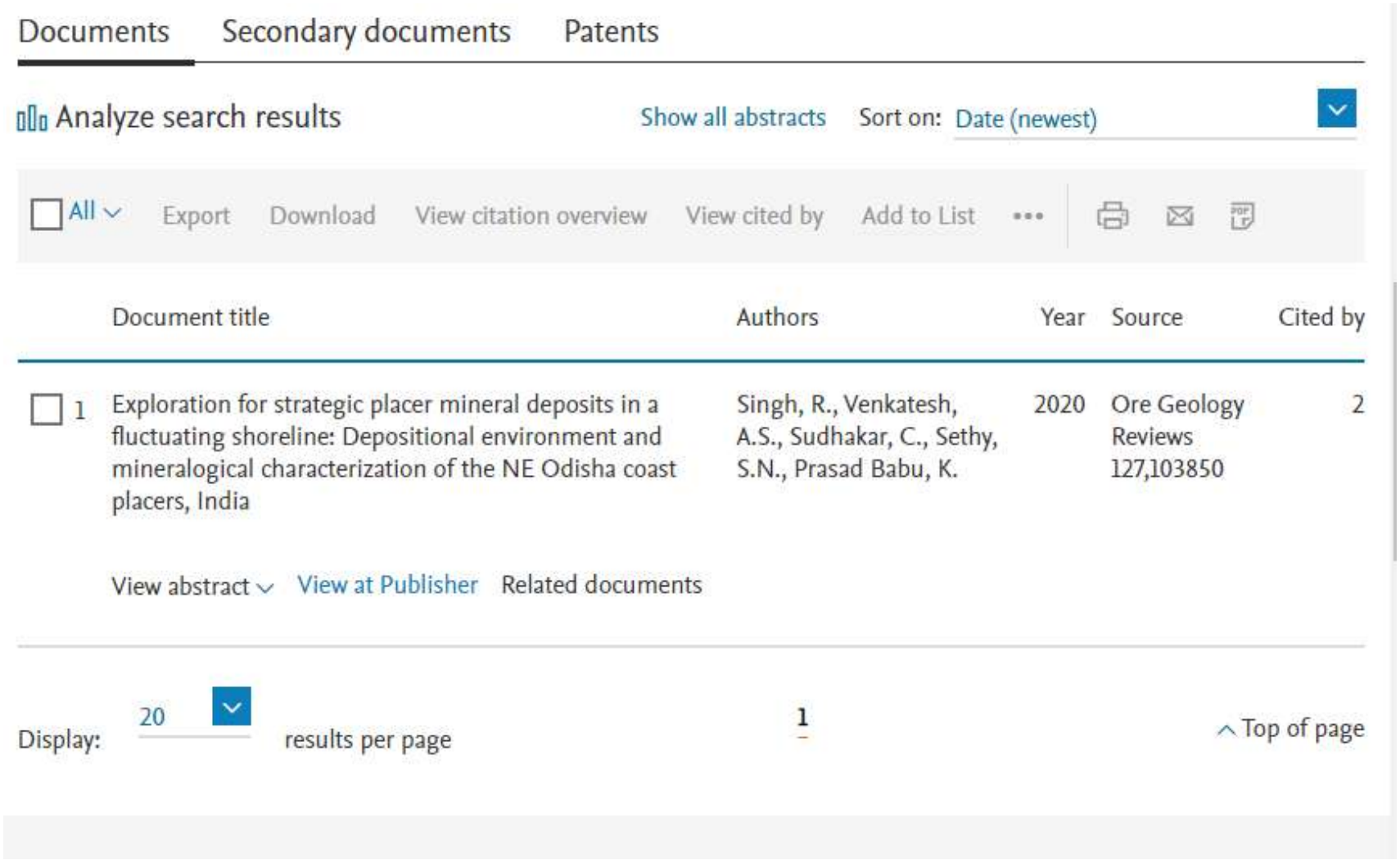
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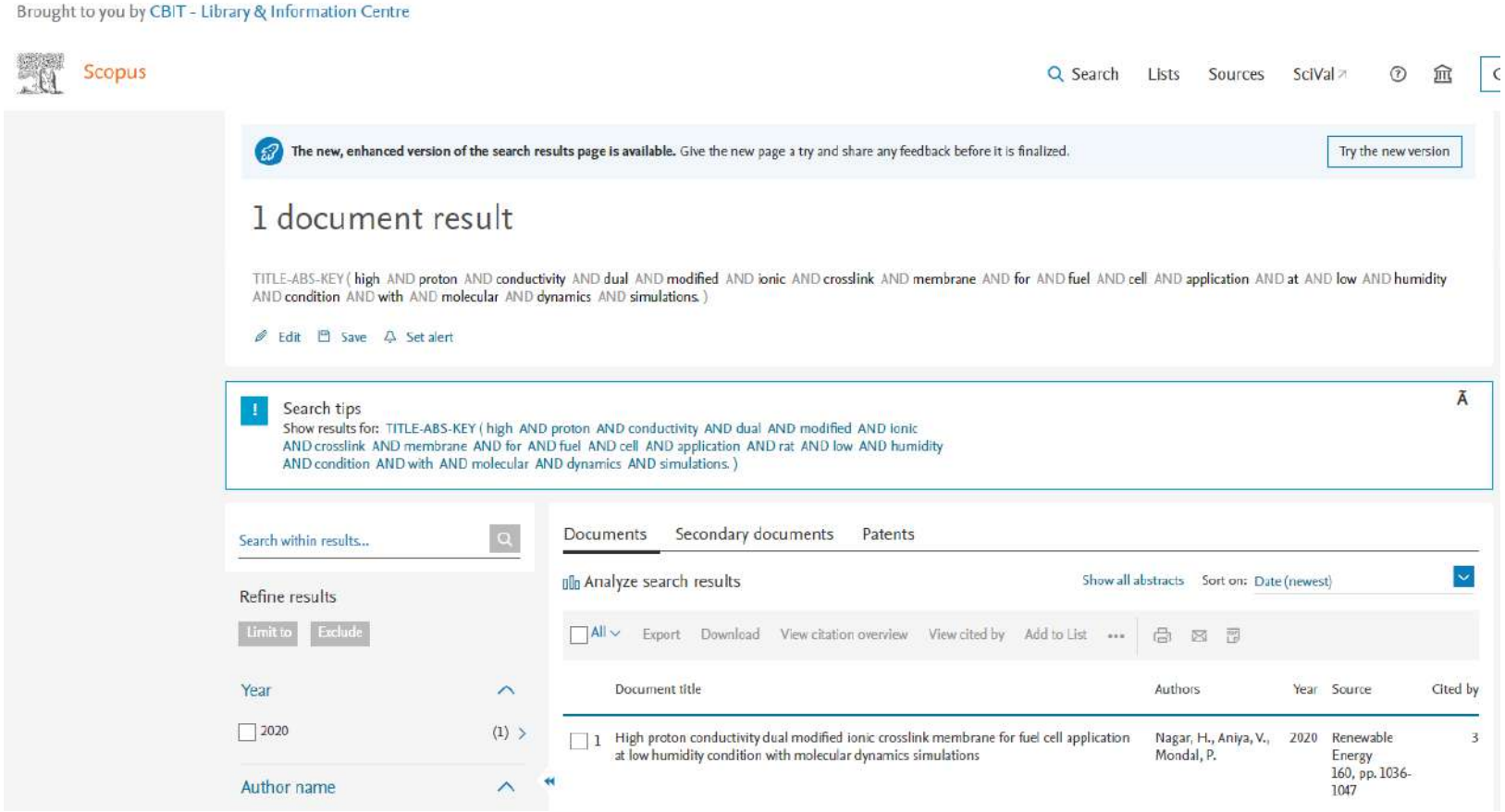
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1 High proton conductivity dual modified ionic crosslink membrane for fuel cell application at low humidity condition with molecular dynamics simulations
Nagar, H., Aniya, V., Mondal, P.
2020
Renewable Energy 160, pp. 1036-1047
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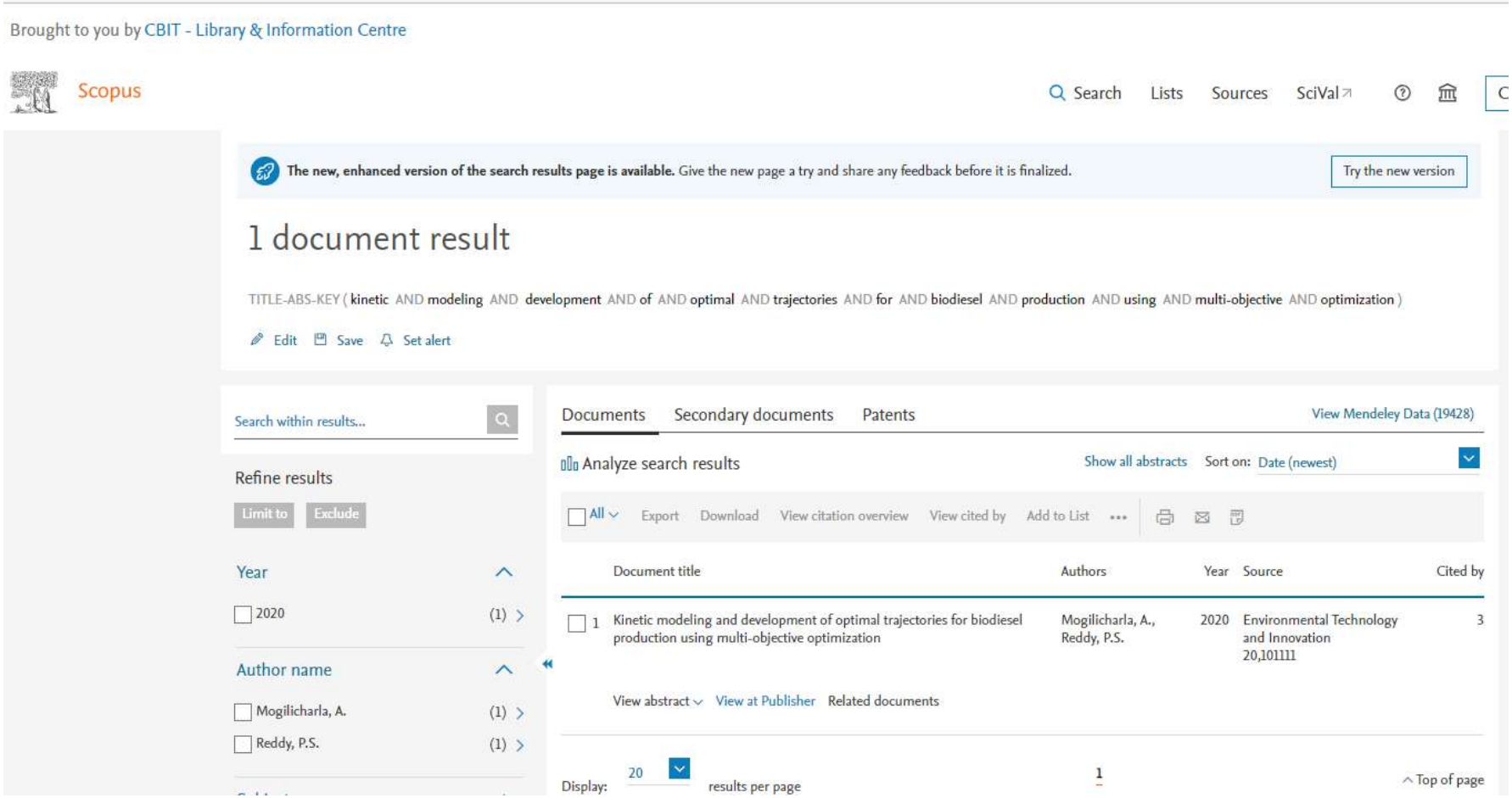
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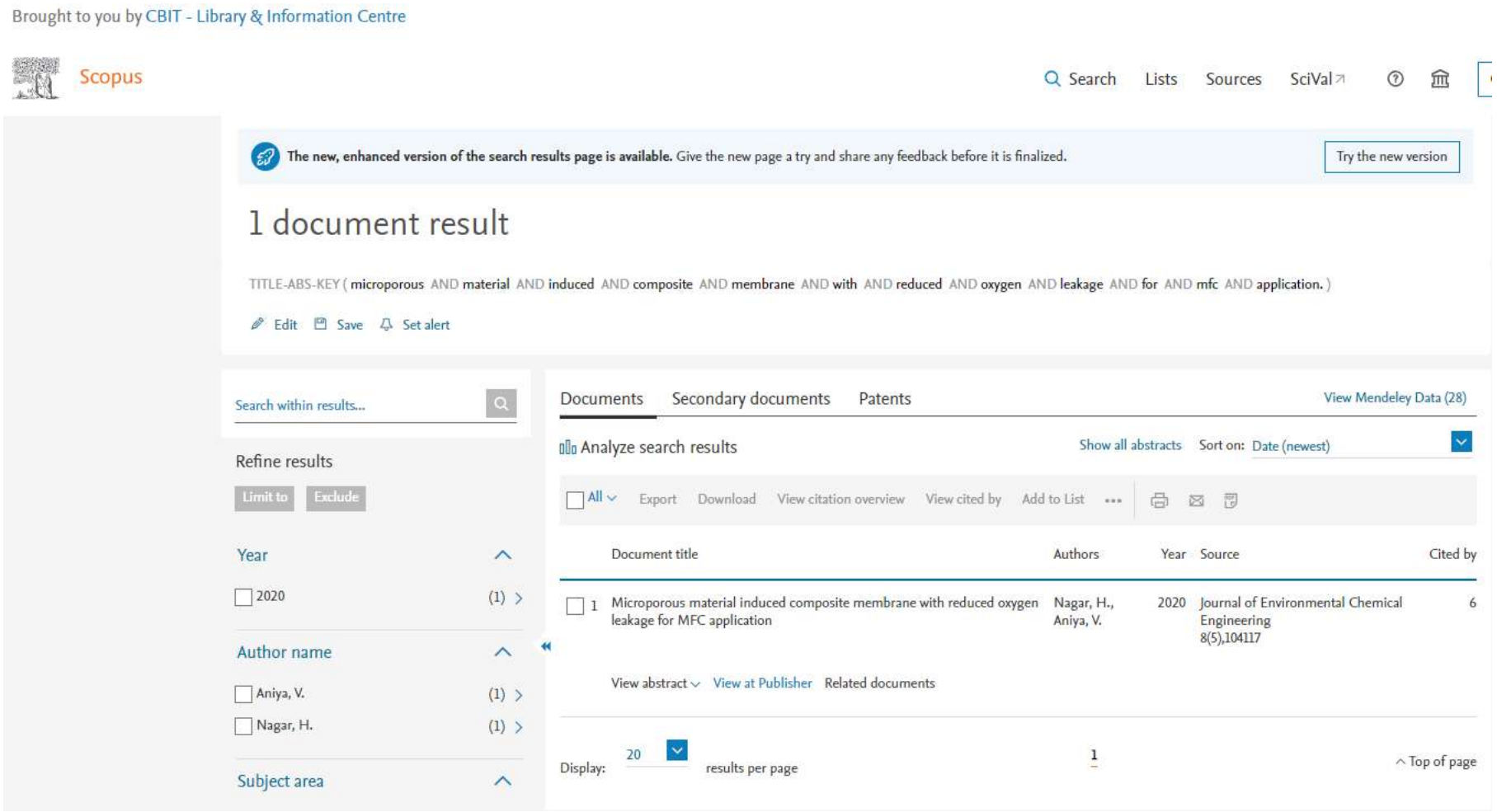
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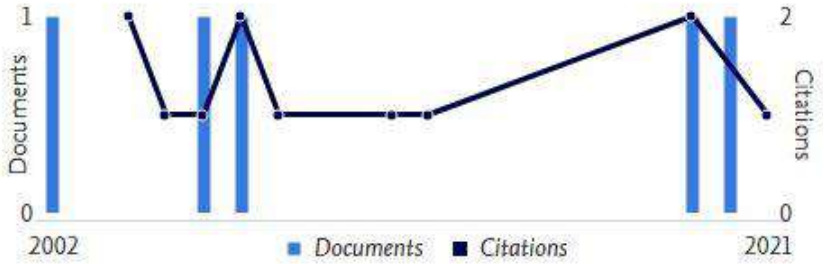

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Chemical Product and Process Modeling, 2020, 15(2), 20190076

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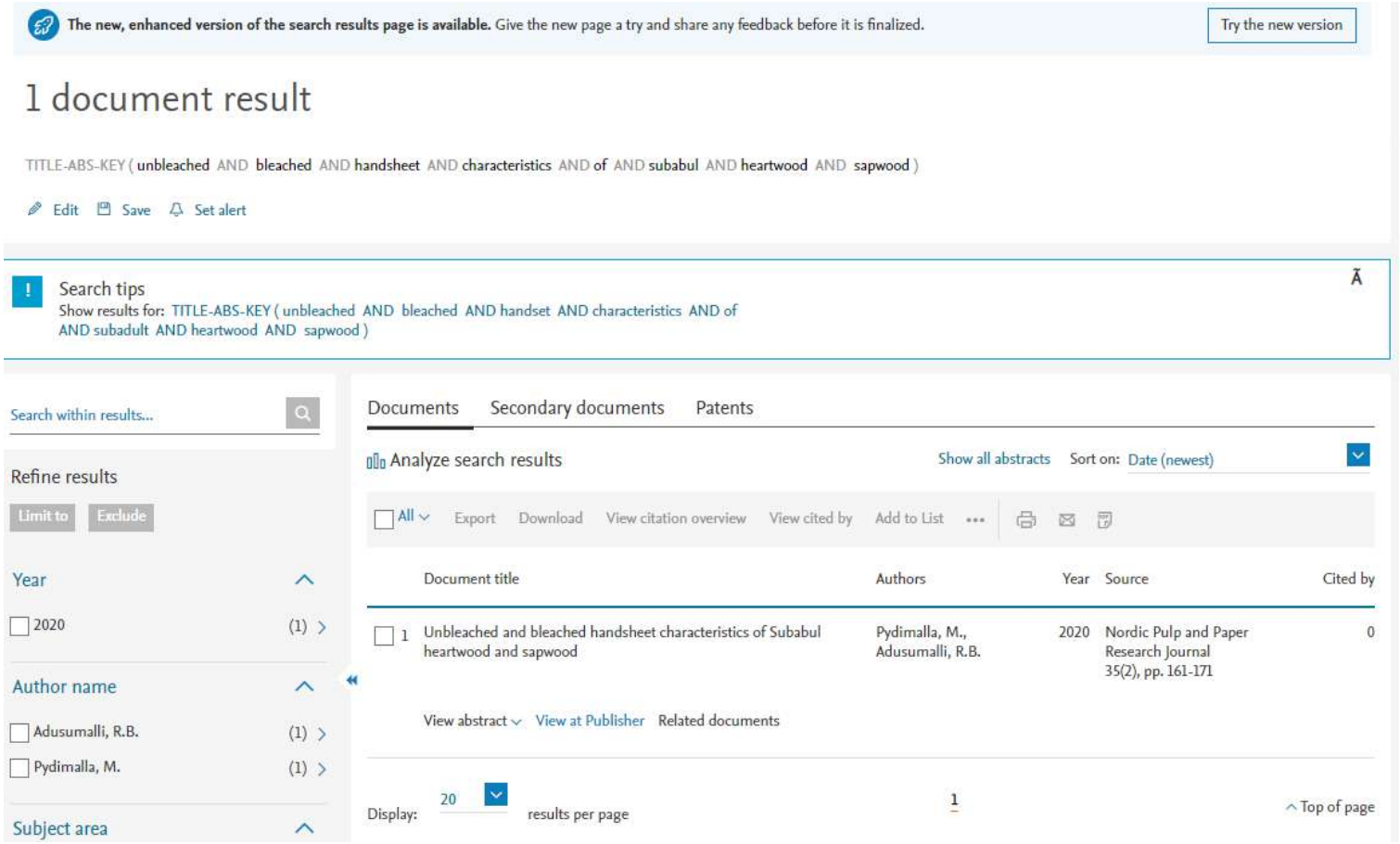
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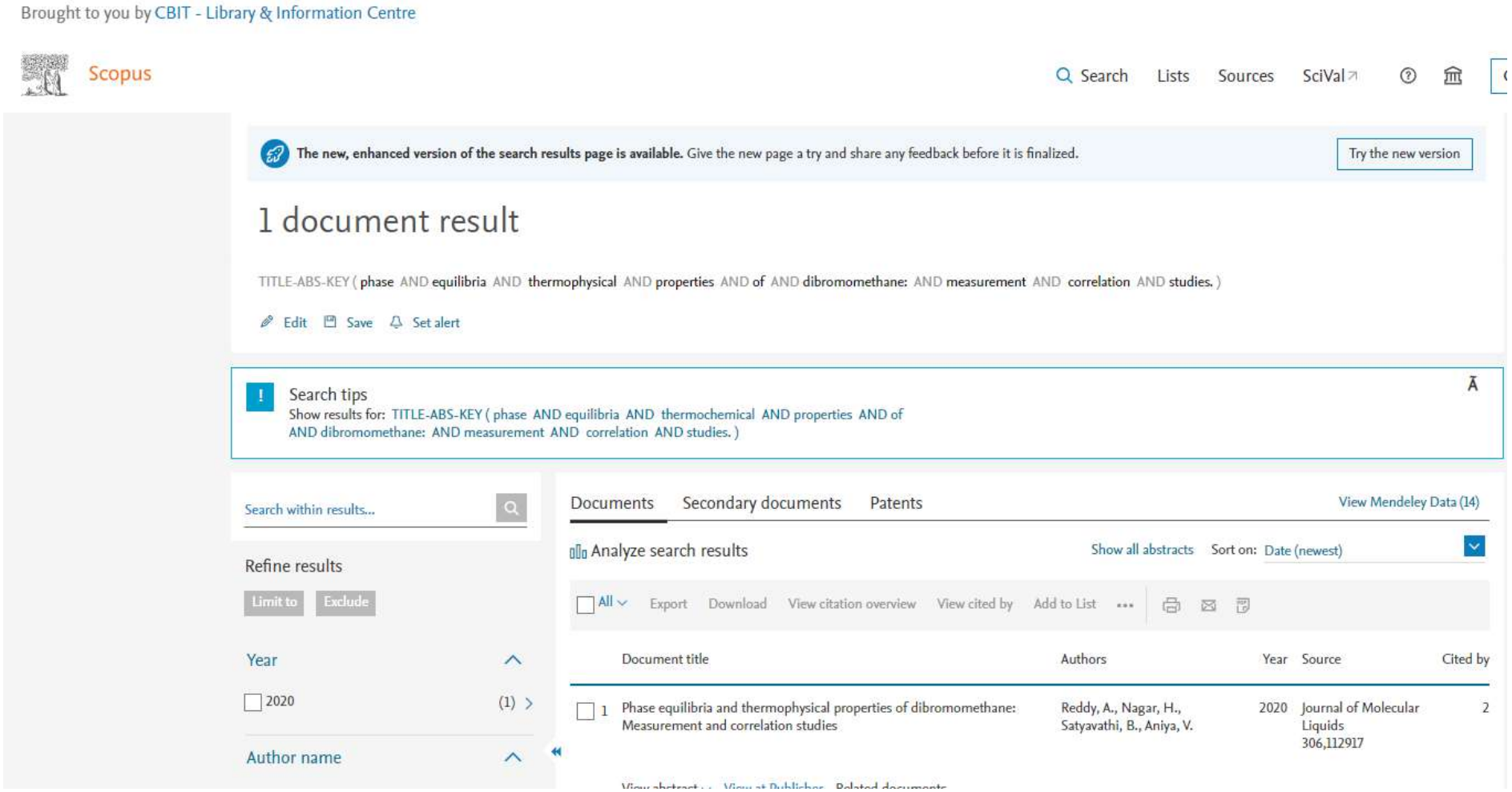
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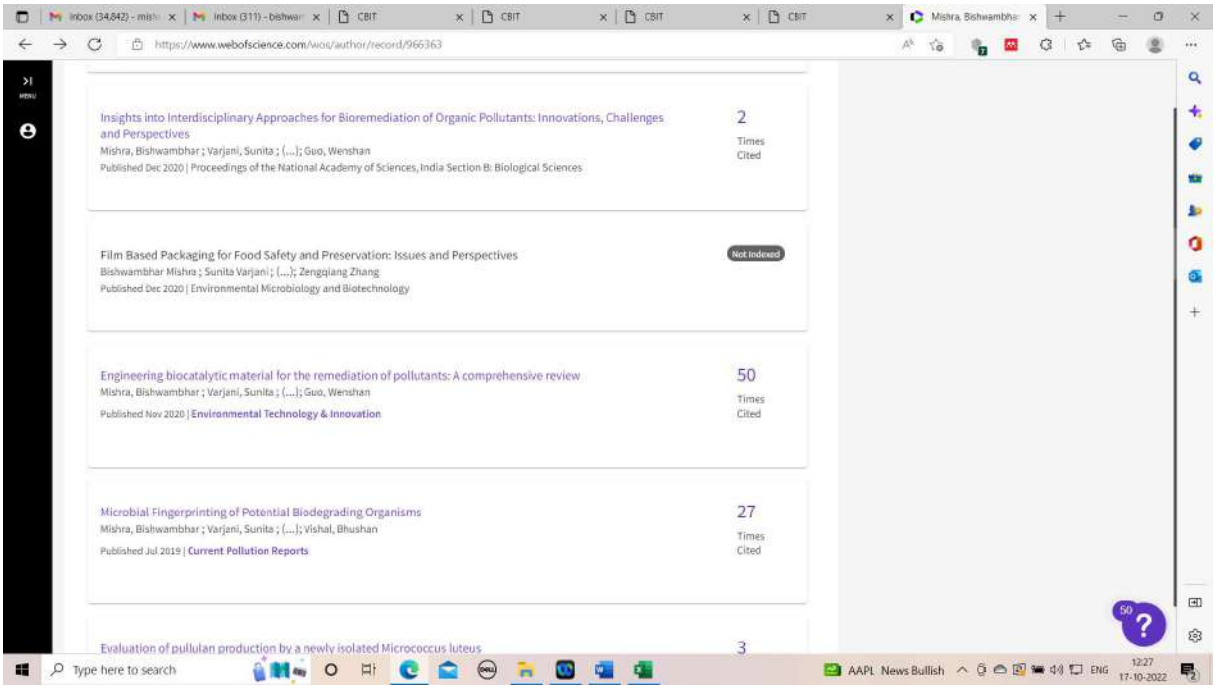

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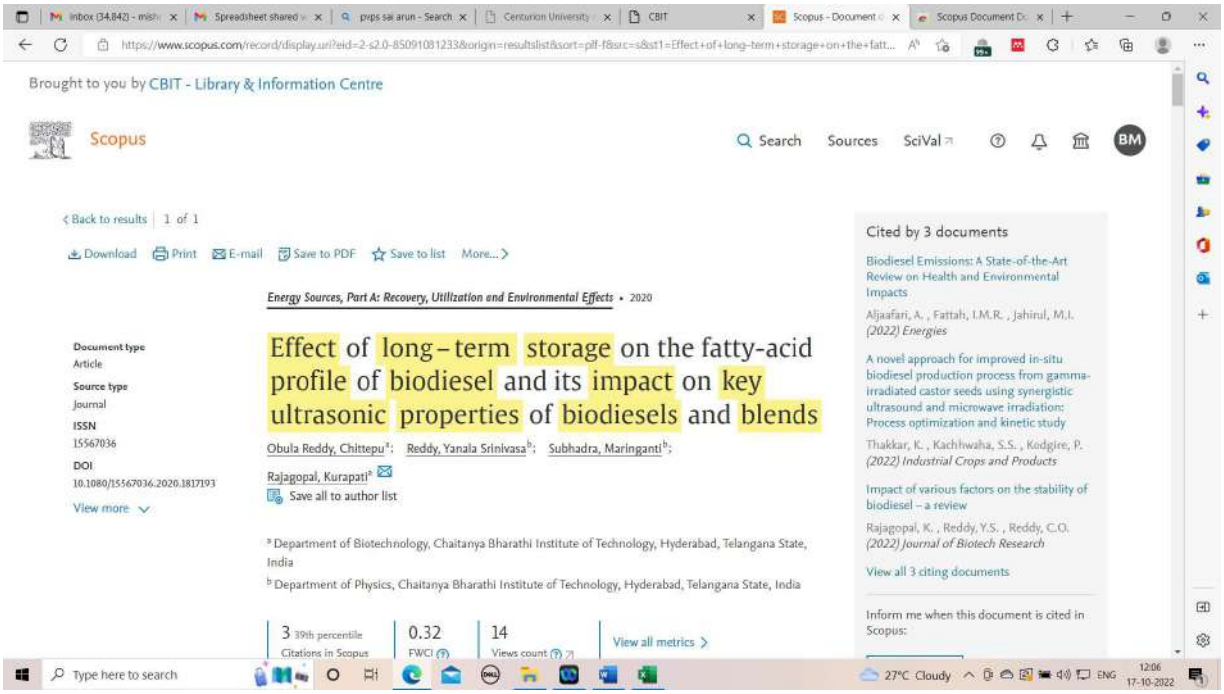

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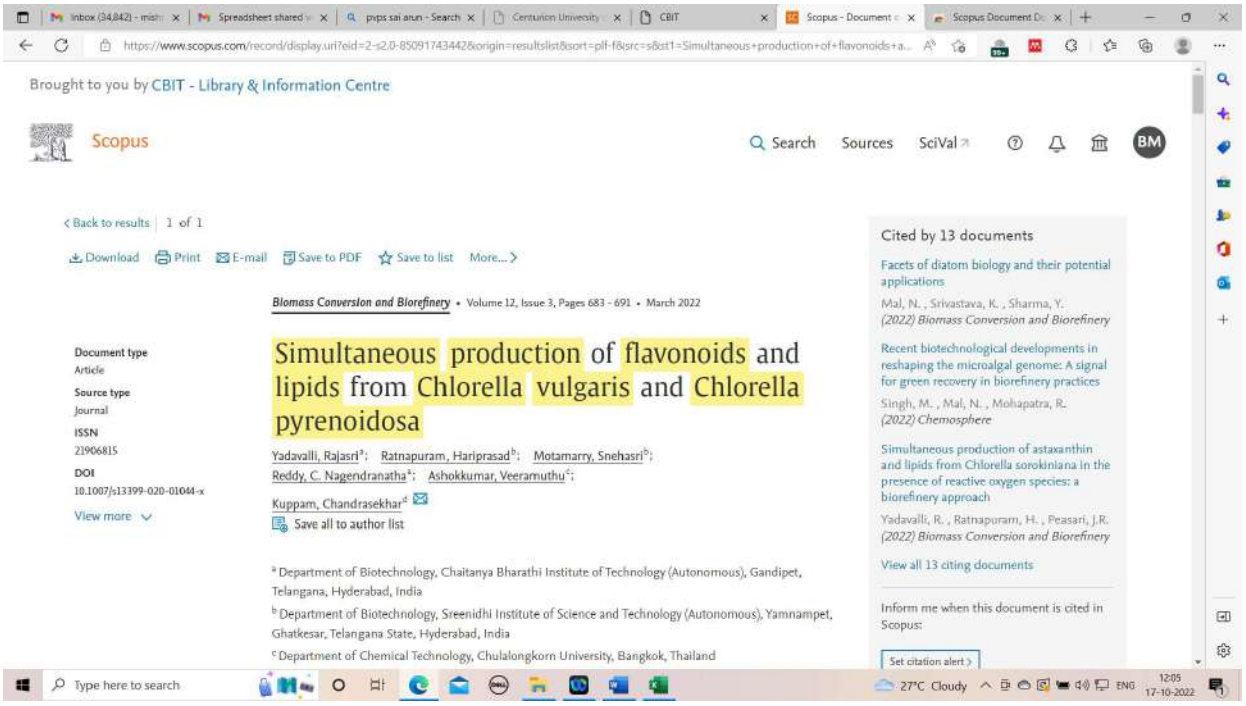

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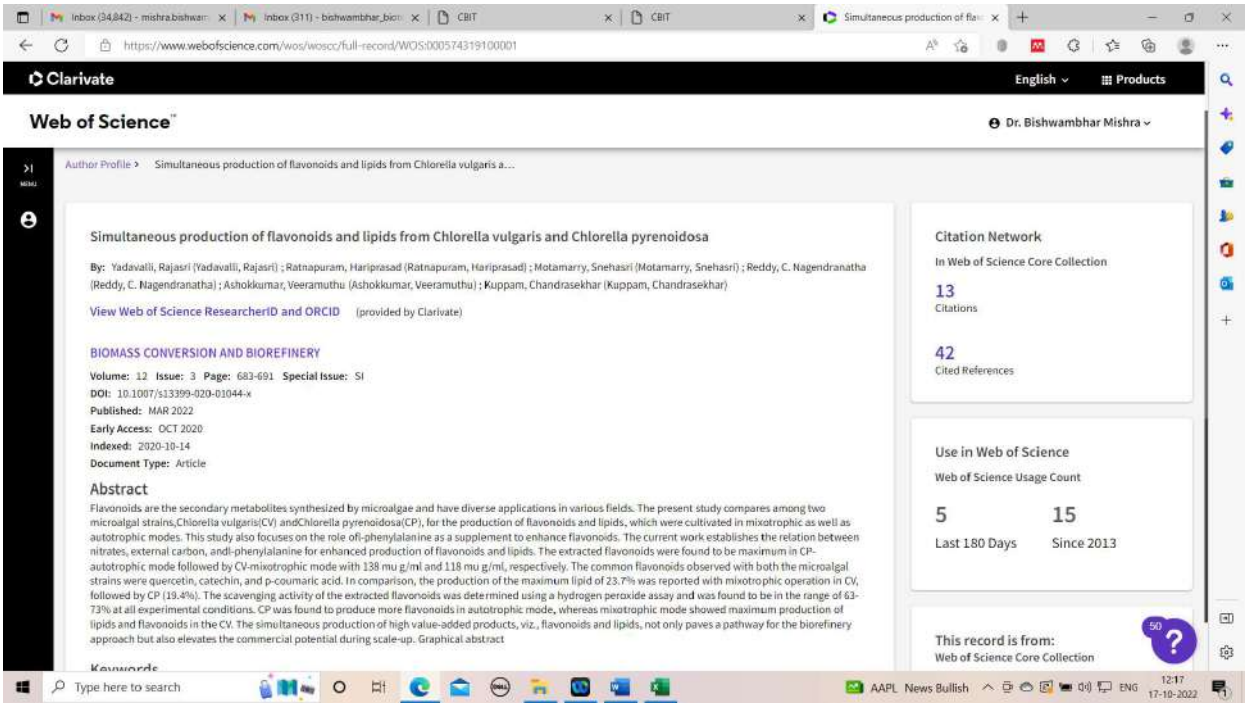

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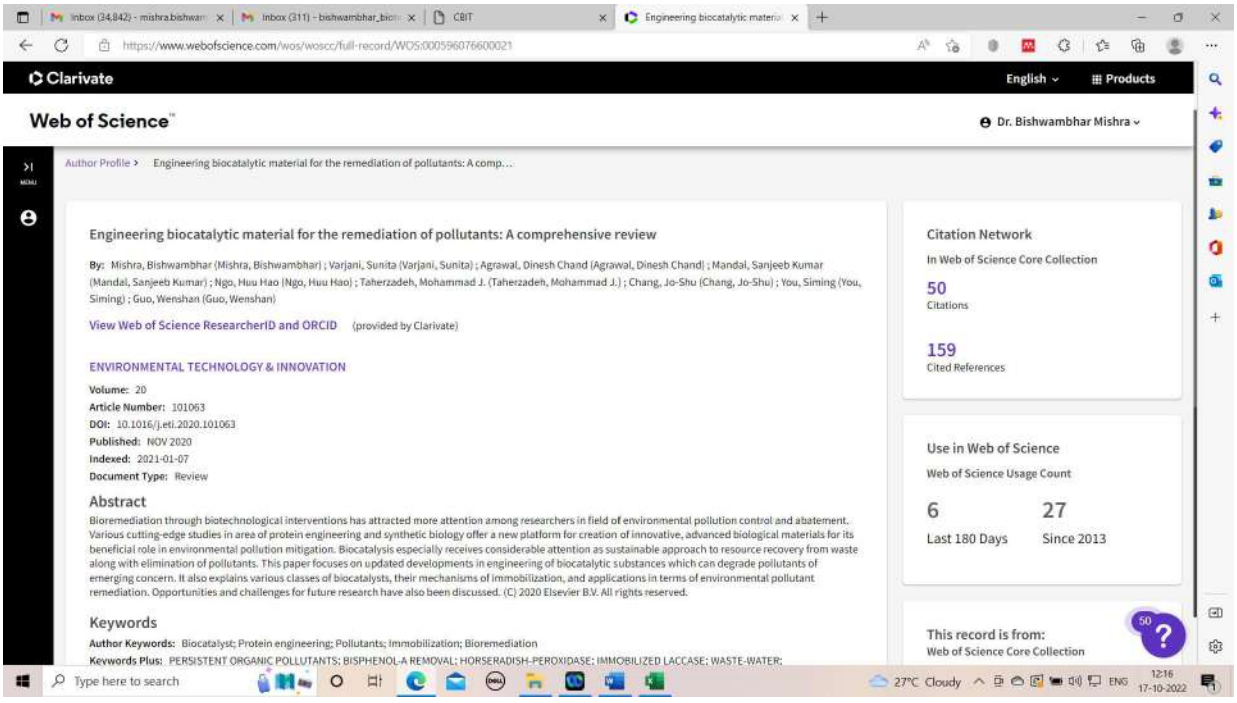

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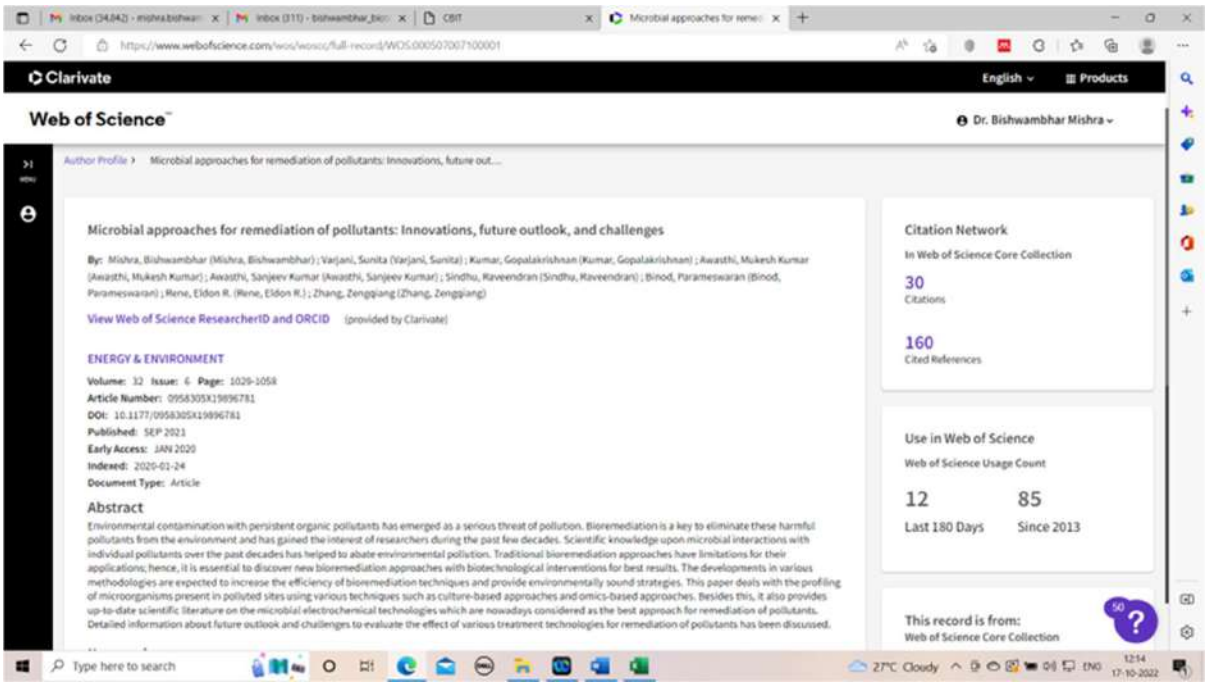

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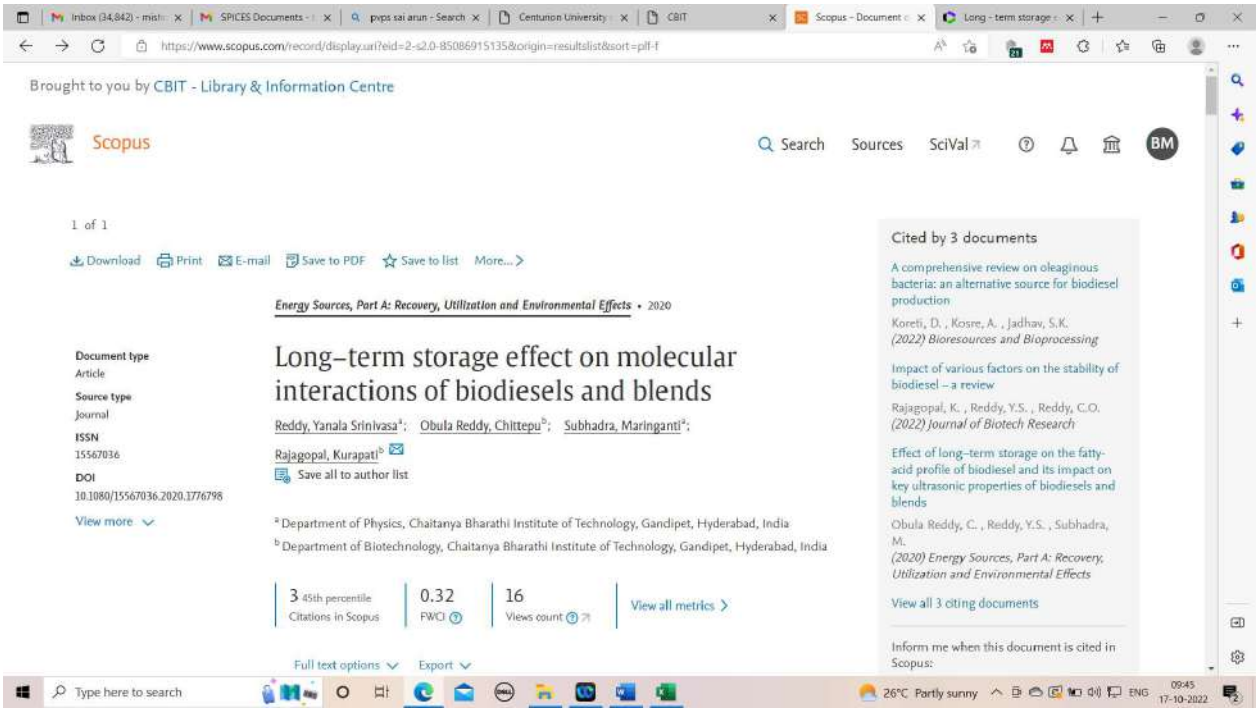

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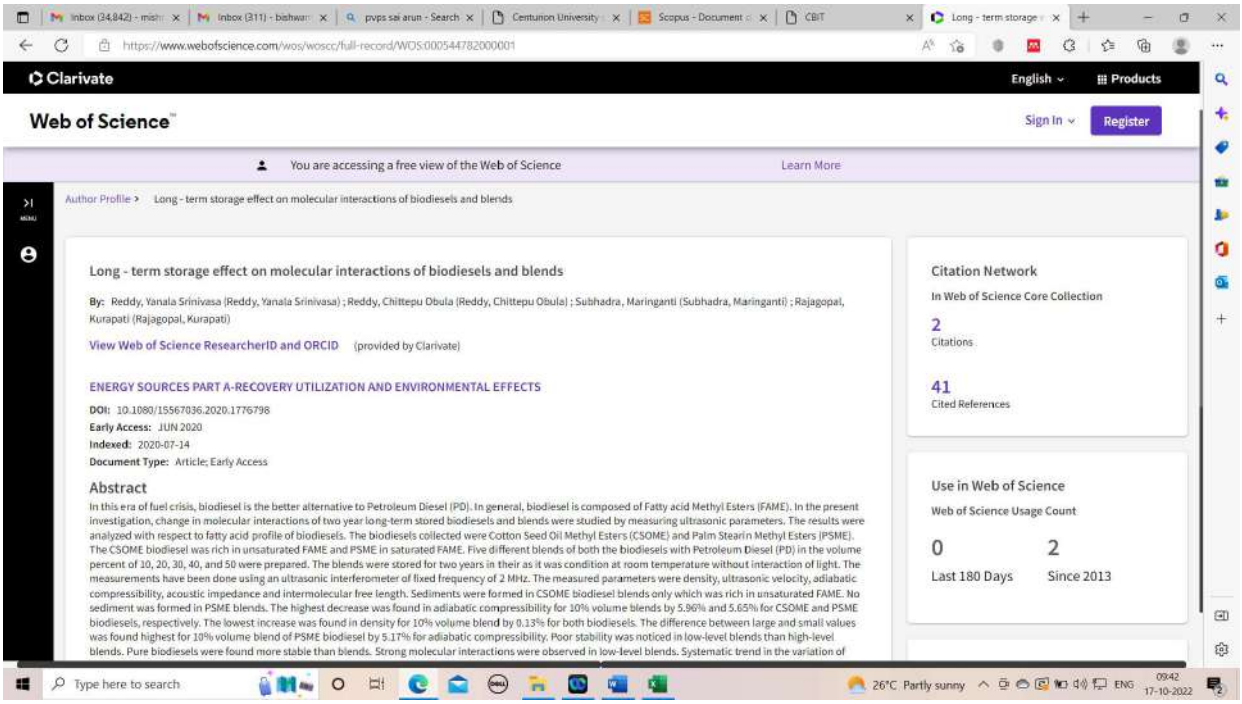

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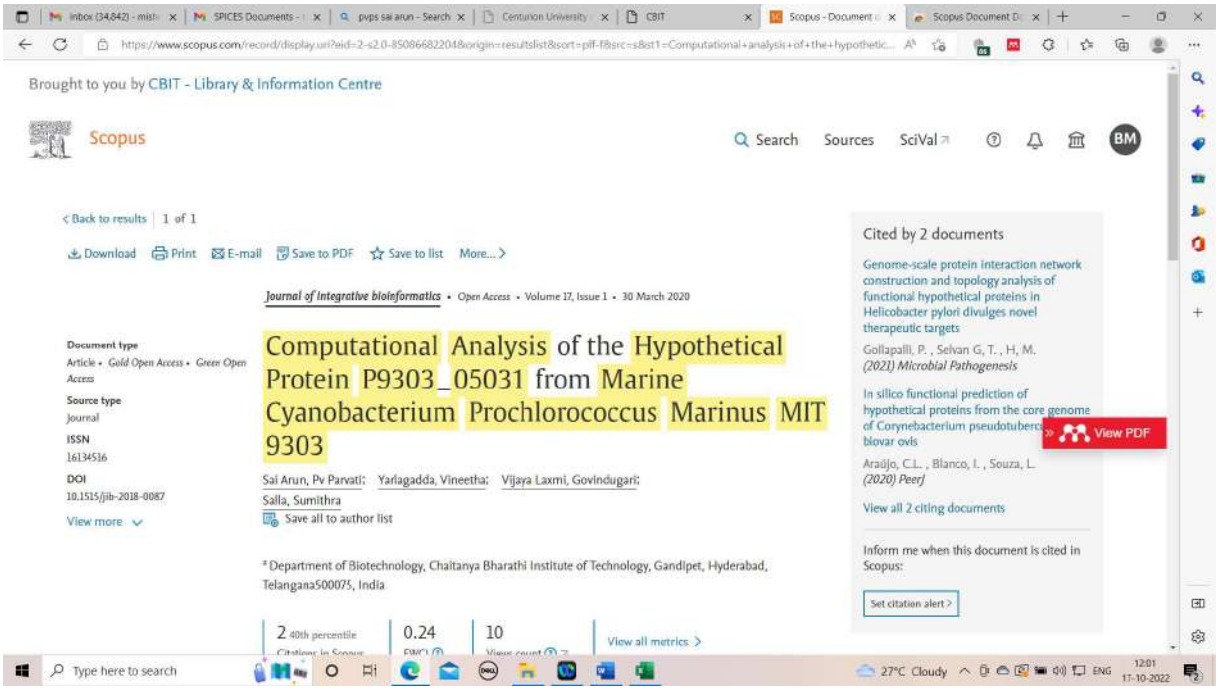

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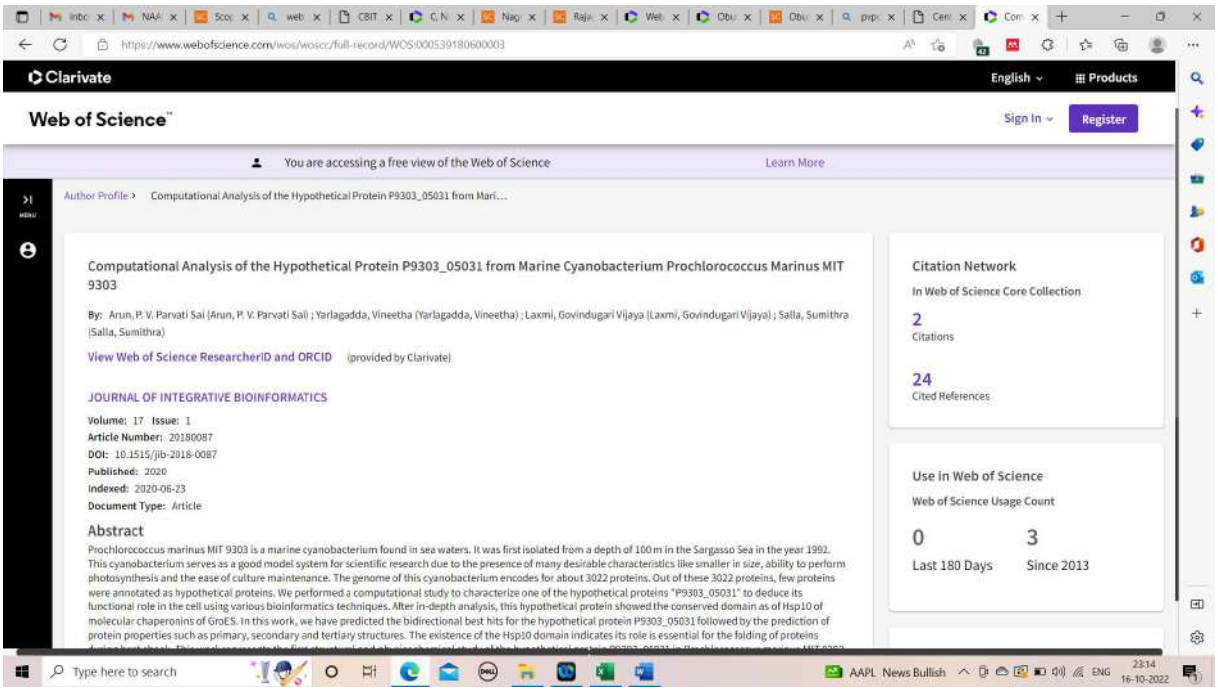

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Ramesh J.[a] ; Reddy S.S.K.[b]; Padmasree G.[c]; Sreenath Reddy M.[d]; Gopal Reddy Ch.[a]; Yadagiri Reddy P.[a]; Rama Reddy K.[a]; Raghavendra Reddy V.[e]

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Abstract

The present work reports the preparation and study of multiferroic Nd doped $BiFeO_3$ (BFO) polycrystalline samples. The samples are prepared with sol-gel method. The x-ray diffraction measurements confirm the orthorhombic structure with Pnma space-group. Small amount of secondary phase is also observed. SEM and EDX have been used to study the surface morphology and weight percentage of the elements. The room temperature leakage current density (J-E) measurements indicate grain boundary limited conduction and Ohmic conduction mechanisms under lower and

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Effect of indium substitution on structural and hyperfine parameters of $CoFe_2O_4$

Sumalatha M.[a]; Reddy, S. Shravan Kumar[d]; Reddy, M. Sreenath[b]; Sripada, Suresh[c]; Reddy, P. Venkat[a]; Ch, Gopal Reddy[b]; Reddy, P. Yadagiri[b]; Reddy, V. Raghavendra[e]

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Abstract

Structural and 57Fe MÖssbauer study of Sol-Gel prepared Indium substituted Cobalt ferrites with chemical formula CoFe2-xInxO4 (x= 0, 0.2, 0.4, 0.6 and 0.8) are reported in this paper. From the Rietveld refinement of X-Ray diffraction patterns, it is observed that x=0, 0.2 samples are formed in single phase without any detectable impurity and x=0.4, 0.6 and 0.8 samples consists of a relatively small fraction un-reacted Fe2O3 as an impurity phase. It is also found that lattice parameters increase

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Effect of long–term storage on the fatty-acid profile of biodiesel and its impact on key ultrasonic properties of biodiesels and blends

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Abstract

Biodiesel is a good alternative to Petroleum Diesel (PD). The storage of fuel is unavoidable for its future use. The objective of the study was to investigate ultrasonic parameters: viscosity, relaxation time,

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View more

Unique Structure-Induced Magnetic and Electrochemical Activity in Nanostructured Transition Metal Tellurates $Co_{1-x}Ni_xTeO_4$ (x = 0, 0.5, and 1)

Patel, Akhilesh Kumar[a]; Panda, Manas Ranjan[b, c]; Rani, Ekta[d]; Singh, Harishchandra[a, d] ✉; Samatham, S. Shanmukharao[e]; Nagendra, Abharana[f]; Jha, Sambhu Nath[f, g]; Bhattacharyya, Dibyendu[g]; Suresh, Krishnawarrier G.[a] ✉; Mitra, Sagar[b] ✉

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Indian Journal of Environmental Protection • Volume 40, Issue 8, Pages 887 - 891 • 2020

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Geochemical Studies on the Groundwater of Kistapur Village, Medchal District, Telangana

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Abstract

Groundwater is one of the sources of drinking water and various other usages. With an increase in urbanization and industrialization, health conditions are influenced by the chemical aspects of groundwater and geology of the region. Access to safe drinking water remains an urgent necessity in the world as it is directly related to health. Groundwater accounts for more than 80% of the rural domestic

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Dose assessment due to natural gamma radiation levels and radioactive nuclides in the environment of Dasarlapally, Nalgonda District, Telangana State, India

Suman G.[a]; Vinay Kumar Reddy K.[b]; Sreenath Reddy M.[a]; Vidyasagar D.[c]; Gopal Reddy, Ch.[a] ✉ ; Yadagiri Reddy P.[a]

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Abstract

Gamma radiation levels in the indoors and outdoors of Dasarlapally, a village in the environs of uranium mineralised area, were measured with μR- survey metre and Thermoluminescence Dosimeters (TLDs). The measured gamma radiation absorbed dose in the study area varied between 1744 and 2663 μGy y^{-1} with an average of 2327±505 μGy y^{-1}. The ratio of indoor to outdoor gamma

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Novel cost-effective and electrocatalytically active intermetallic nickel aluminide counter electrode for dye sensitized solar cells

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Abstract

The very high cost, scarcity and dissolubility of platinum (Pt) is the center of debates as a counter electrode (CE) in dye sensitized solar cells (DSSCs) research domain. To deal with such core issues, herein, novel low-cost and electro-catalytically active inter-metallic nickel aluminide (Ni3Al) thin films have been fabricated successfully on fluorine-doped tin oxide substrates by DC magnetron sputtering at room temperature. For the first time, Ni3Al has been utilized as a CE for DSSCs application. Further,

Journal of Alloys and Compounds • Volume 837 • 5 October 2020 • Article number 155478

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Journal

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Raman and in-field ^{57}Fe Mössbauer study of cation distribution in Ga substituted cobalt ferrite ($CoFe_{2-x}Ga_xO_4$)

Sumalatha M.[a]; Shravan kumar Reddy S.[b]; Reddy, M. Sreenath[c] ; Sripada, Suresh[d]; Raja, M. Manivel[e]; Reddy, Ch Gopal[c]; Reddy, P. Yadagiri[c]; Reddy, V. Raghavendra[f]
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Abstract

Structural and magnetic properties of Ga substituted cobalt ferrite ($CoFe_{2-x}Ga_xO_4$) samples are reported in the present work. Phase purity of the prepared samples is studied with x-ray diffraction measurements. The room temperature M-H loops are measured using vibrating sample magnetometer. From the room temperature M-H data, it is observed that Ga substitution results in the soft-magnetic property in $CoFe_2O_4$. Saturation magnetization is found to change for higher substitution of Ga (x >

Journal of High Energy Physics • *Open Access* • Volume 2020, Issue 5 • 1 May 2020 • Article number 128

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Article • *Gold Open Access* • *Green Open Access*

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10.1007/JHEP05(2020)128

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Multiparton webs beyond three loops

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Abstract

Correlators of Wilson-line operators are fundamental ingredients for the study of the infrared properties of non-abelian gauge theories. In perturbation theory, they are known to exponentiate, and their logarithm can be organised in terms of collections of Feynman diagrams called webs. We study the classification of webs to high perturbative orders, proposing a set of tools to generate them recursively: in particular, we introduce the concept of Cweb, or correlator web, which is a set of skeleton diagrams built with connected gluon correlators, instead of individual Feynman diagrams. As an application, we enumerate all Cwebs entering the soft anomalous dimension matrix for multi-parton scattering amplitudes at four loops, and we compute the mixing matrices for all Cwebs

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Long–term storage effect on molecular interactions of biodiesels and blends

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Abstract

In this era of fuel crisis, biodiesel is the better alternative to Petroleum Diesel (PD). In general, biodiesel is composed of Fatty acid Methyl Esters (FAME). In the present investigation, change in molecular interactions of two year long-term stored biodiesels and blends were studied by measuring ultrasonic parameters. The results were analyzed with respect to fatty acid profile of biodiesels. The biodiesels collected were Cotton Seed Oil Methyl Esters (CSOME) and Palm Stearin Methyl Esters (PSME). The

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Article

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Journal

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Critical behavior, universality class and magneto-transport properties of Ni_2MnIn

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Abstract

Structural, magnetic, transport and critical properties of Ni_2MnIn are investigated using the combined results of x-ray diffraction, magnetization and electrical resistivity. Ni_2MnIn crystallizes in cubic structure with Fm-3m space group. The alloy is metallic and shows Fermi liquid behavior. Critical exponents are extracted using the modified Arrott's plot (MAP), Kouvel-Fisher (KF) and magnetocaloric effect (MCE) methods and are found to be mutually consistent. The alloy belongs to the three-dimensional (3D)-Heisenberg universality class with short range magnetic interactions, as inferred from the exchange interaction $J(r) \sim r^{-4.91}$. The suppression of spin-fluctuations by the applied

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Disorder-induced critical exponents near a ferromagnetic quantum critical point in M n1-x C rxSi

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Abstract

We report the observation of critical behavior in Mn1-xCrxSi(0≤x≤1) close to a T=0K quantum critical point, consistent with the Belitz-Kirkpatrick-Vojta (BKV) theory of disordered metallic ferromagnets. The critical exponents are in good agreement with the theoretical predictions of the BKV theory in the preasymptotic limit. A non-Fermi liquidlike behavior is seen down to 200 mK in the transport and thermodynamic properties around the critical concentration xC=0.2. Quantum criticality and self-consistency of the exponents is further confirmed using a scaling analysis of the magnetization and heat capacity data. A recovery to Fermi liquidlike behavior is displayed on moving away from the critical composition, as well as with the application of a magnetic field. © 2020 American Physical Society.

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Review

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Computational challenges in statistical outcome of teaching learning practice: A scientific review

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Abstract

The implementation of soft computing techniques in the process of rubric evaluation is of vital importance in the environment of teaching learning. The evaluation and teaching methodology in modern era have been a challenging tasks in the process of imparting knowledge to the students of modern society. Statistical outcome of in the environment of teaching and learning process is a real objective need to be achieved through many challenges and difficulties. There have been multiple parameters involved in assessment and evaluation which can be possible through implementation of Softcomputing algorithms. The various facts encountered in the teaching learnig practice need to be analyzed in order to attain the targets of motivating the students and establishing the human resources in intellectual directions. The subjects presented in the paper deals with the mechanism of evaluation and utilization of technological resources in teaching learning practices. The teaching is the most challenging practice which can influence society and therefore teacher with high standards in the system of higher learning needs to established with all requirements necessary to provide the clear

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Indoor radon and thoron in the vicinity of proposed uranium mining site: A case study at Dasarlapally Village, Telangana State, India

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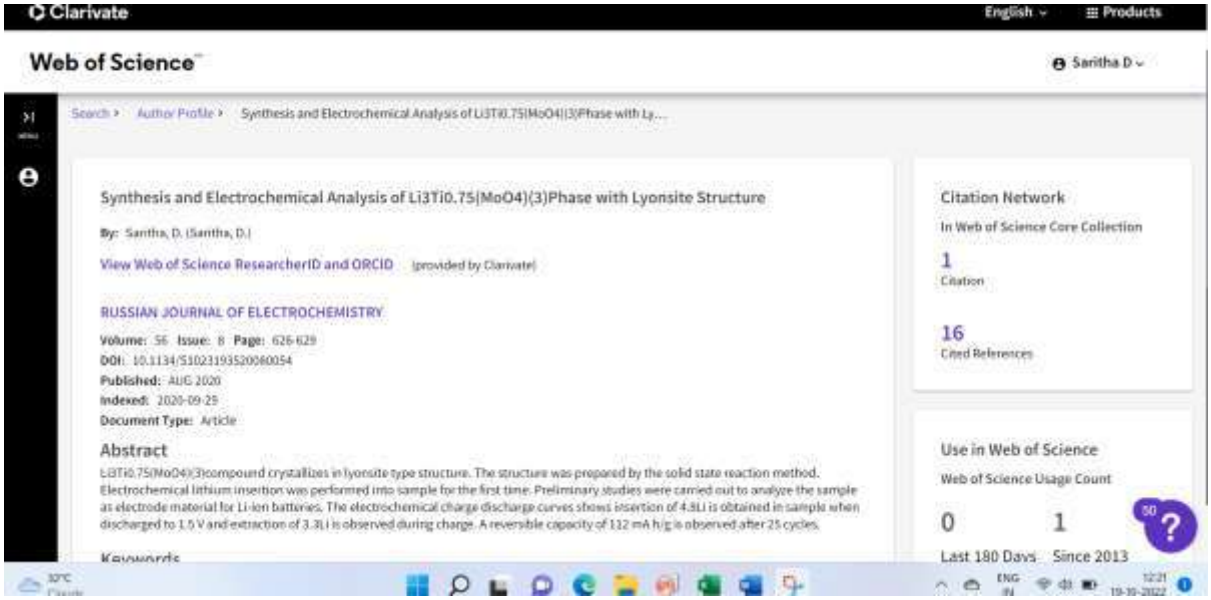
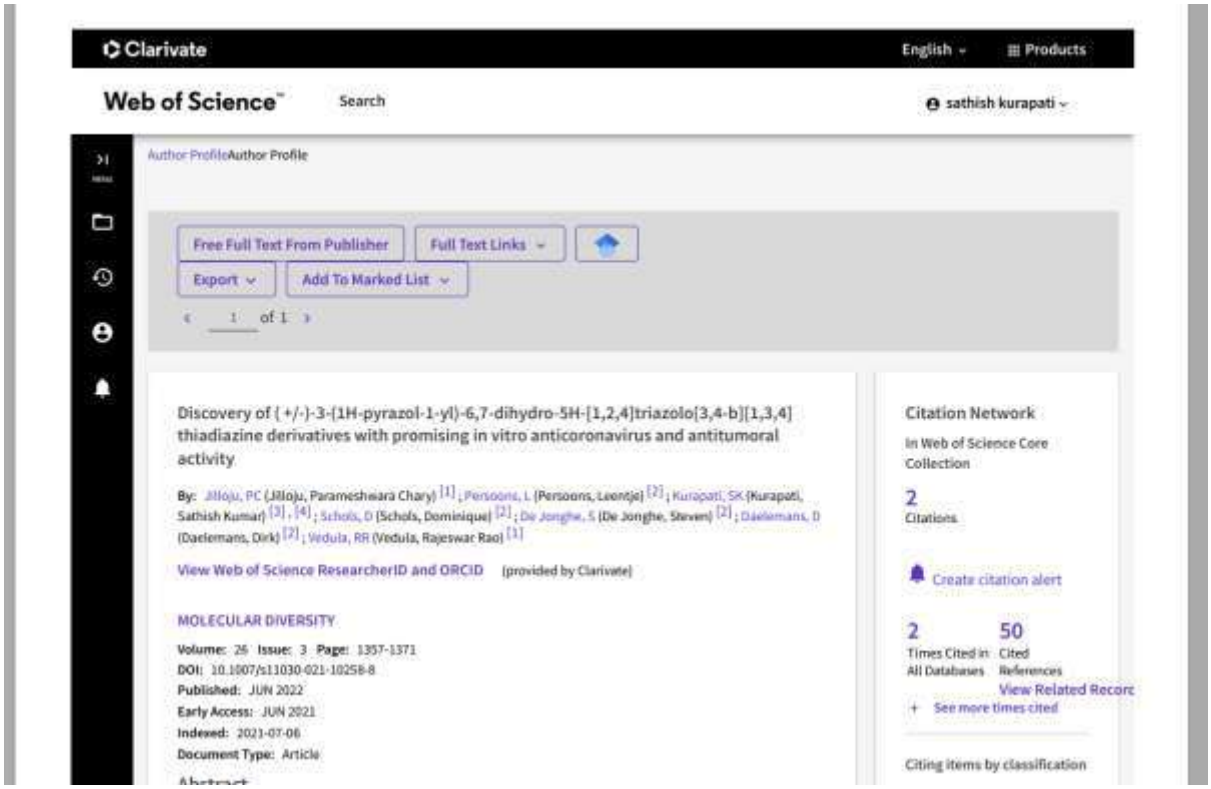
Abstract

Studies are being conducted for the past few decades in and around the uranium mining sites across the globe to identify environmental nuclear radiation risk to the common public. The area near Dasarlapally village was identified for uranium exploration by the AMDER, Hyderabad. The present study was carried out to measure the indoor radon and thoron activity concentrations in the dwellings of Dasarlapally village. For this purpose different types of dwellings were chosen randomly across the village. The measured annual average concentration of radon and thoron in dwellings were found to be 141 ± 42 and 139 ± 77 Bqm^{-3}, respectively, and the calculated annual effective inhalation dose due to radon was determined to be 3.5 mSv. Seasonal variation and diurnal variation of radon and thoron

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Discovery of (+/-)-3-(1H-pyrazol-1-yl)-6,7-dihydro-5H-[1,2,4]triazolo[3,4-b][1,3,4] thiadiazine derivatives with promising in vitro anticoronavirus and antitumoral activity
By: Jilloju, PC (Jilloju, Parameshwara Chary) [1] ; Persoons, L (Persoons, Leentje) [2] ; Kurapati, SK (Kurapati, Sathish Kumar) [3] , [4] ; Schols, D (Schols, Dominique) [2] ; De Jonghe, S (De Jonghe, Steven) [2] ; Daelemans, D (Daelemans, Dirk) [2] ; Vedula, RR (Vedula, Rajeswar Rao) [1]
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10.1080/14686996.2020.1789437
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intermetallic Pd_3X (X= Ti and Zr) nanocrystals for electro-oxidation of alcohols and formic acid in alkaline and acidic media
Kodiyath, Rajesh ; V. Ramesh, Gubbala ; Manikandan, Maidhily ; Ueda, Shigenori ; Fujita, Takeshi ; Abe, Hideki
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Cited by 6 documents
Pd–Ni(OH)2 nanocatalyst on Ketjen black carbon as a potential alternative to commercial Pt-catalysts for oxygen reduction reactions
Park, Y. , Yusuf, M. , Muthuchamy, N. (2022) Materials Science in Semiconductor Processing
The Utilization of Iridium Nanoparticles Impregnated on Metal Oxides (Ceria, Titania, and Zirconia) with a Simple and Ecologically Safe Synthesis Approach in Oxygen Evolution Reactions
Akbayrak, M. , Onal, A.M. (2022) Journal of the Electrochemical Society
Pt- and Pd- based intermetallic anode catalysts for direct ethanol fuel cell (DEFC): An overview

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The effect of thermal modulation on double diffusive convection in the presence of applied magnetic field and internal heat source

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Abstract

The investigation of thermal modulation on double-diffusive stationary convection in the presence of an applied magnetic field and internal heating is carried out. A weakly nonlinear stability analysis has been performed using the finite-amplitude Ginzburg-Landau model. This finite amplitude of convection is obtained at the third order of the system. The study considers three different forms of

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The Complex Ginzburg Landau Model for an Oscillatory Convection in a Rotating Fluid Layer

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Abstract

A weakly nonlinear thermal instability is investigated under rotation speed modulation. Using the perturbation analysis, a nonlinear physical model is simplified to determine the convective amplitude for oscillatory mode. A non-autonomous complex Ginzburg-Landau equation for the finite amplitude of convection is derived based on a small perturbed parameter. The effect of rotation is found either to stabilize or destabilize the system. The Nusselt number is obtained numerically to present the results

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Concentration modulation effect on weakly nonlinear thermal instability in a rotating porous medium

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Abstract

The present article is to study mass transfer in a rotating porous layer subjected to imposed time-periodic solutal boundaries. A weakly nonlinear analysis is applied to investigate mass transfer in a porous medium . The mass transfer coefficient is calculated by cubic Ginzburg Landau (GLE) amplitude equation. In this article the stationary convection is discussed in the presence of rotating solutal Rayleigh number. The amplitude equation (GLE) is solved numerically to calculate finite temporal convective amplitude. This amplitude is used to find Sherwood number in terms of the

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The time periodic solutal effect on oscillatory convection in an electrically conducting lluid layer

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Abstract

The present article is to study mass transfer in an electrically conducting Newtonian fluid layer subject to imposed time-periodic solutal modulation. The mass transfer coefficient is calculated by complex Ginzburg Landau (CGLE) amplitude equation. It is a cubic equation involving oscillatory finite amplitude and obtained using solvability condition. A weakly nonlinear analysis is applied to investigate mass transfer in the layer . The oscillatory convection is discussed in the presence of

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The effect of gravity driven thermal instability in the presence of applied magnetic field and internal heating

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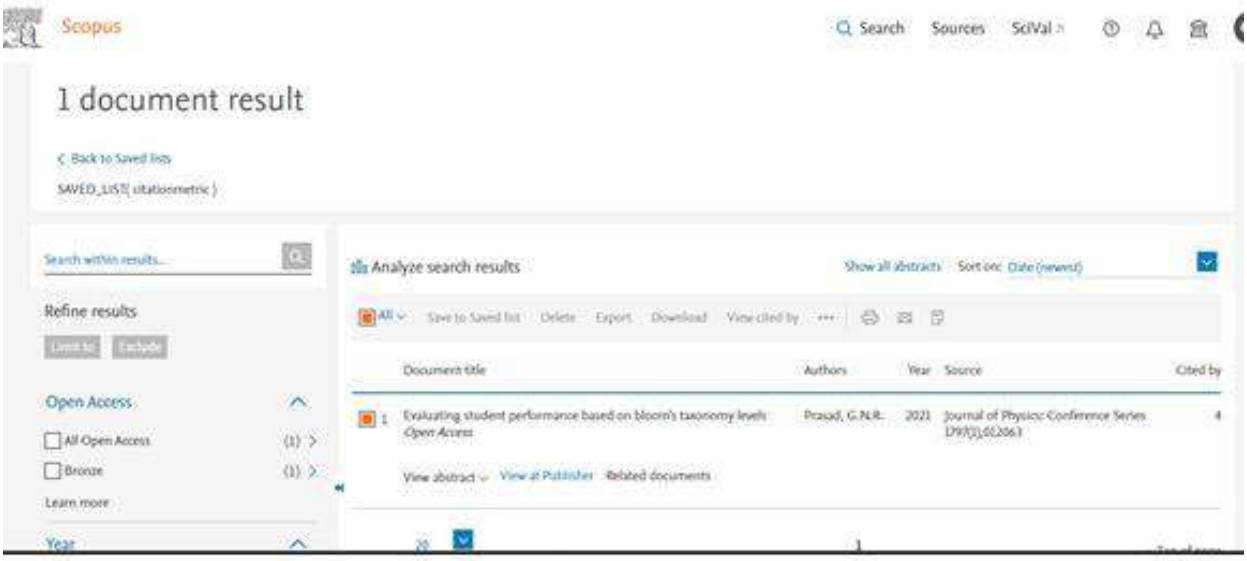
Abstract

This paper deals with the weakly nonlinear thermal instability problem between two infinite parallel surfaces under an imposed magnetic field and time-periodic gravity modulation. In this case gravity has two parts: a constant part and an externally imposed time-dependent part. In addition to applied magnetic field , the layer is heated internally. We focus on stationary convection using the slow time scale and arrive at the real Ginzburg-Landau equation. The classical fourth order Runge-



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Intelligent Automation and Soft Computing • Open Access • Volume 26, Issue 4, Pages 795 - 805 • 2020

A perspective of the machine learning approach for the packet classification in the software defined network

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Article

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An efficient flow table management of flow entry in openflow switch/router

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An approach to enhance packet classification performance of software-defined network using deep learning

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Abstract

Packet classification in software-defined network has become more important with the rapid growth of Internet. Existing approaches focused on the data structure algorithms to classify the packets. But the existing algorithms lead to the problem of time budget and fails to accommodate large rule sets. Thus the key task is to design an algorithm for packet classification that inflicts process overhead, and the algorithm should handle large databases of classification rule. These challenging issues are achieved by proposing rectified linear unit deep neural network. The aim of this work is twofold. First various hyper-parameter values are

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Kaur, H., Paruthi, M., Islam, J., Hollebeek, L.D.

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The role of brand community identification and reward on consumer brand engagement and brand loyalty in virtual brand communities

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Abstract

With the advent of interactive Web 2.0 (and beyond) technologies, the role of consumer brand engagement (CBE), which focuses on the consumer's investment in their brand interactions, is of rapidly growing importance. Despite growing recognition of CBE's importance in virtual brand communities, empirically-derived insight into its drivers, dynamics, and outcomes remains limited, as investigated in this study. Responding to this gap, we explore the effect of consumers' brand community identification and reward on CBE, which we posit to subsequently affect brand loyalty. To investigate our hypotheses, we conducted a survey with 602 Facebook users. Our structural equation modeling results reveal brand community identification's and reward's positive effect on CBE, and a positive effect of CBE on brand loyalty. In addition, our findings reveal CBE's partial mediating effect in the association of brand community identification and reward with brand loyalty. Theoretically, our findings further insight into CBE's virtual community-based dynamics, with a focus on the role of community