

# Hindustan College of Science and Technology

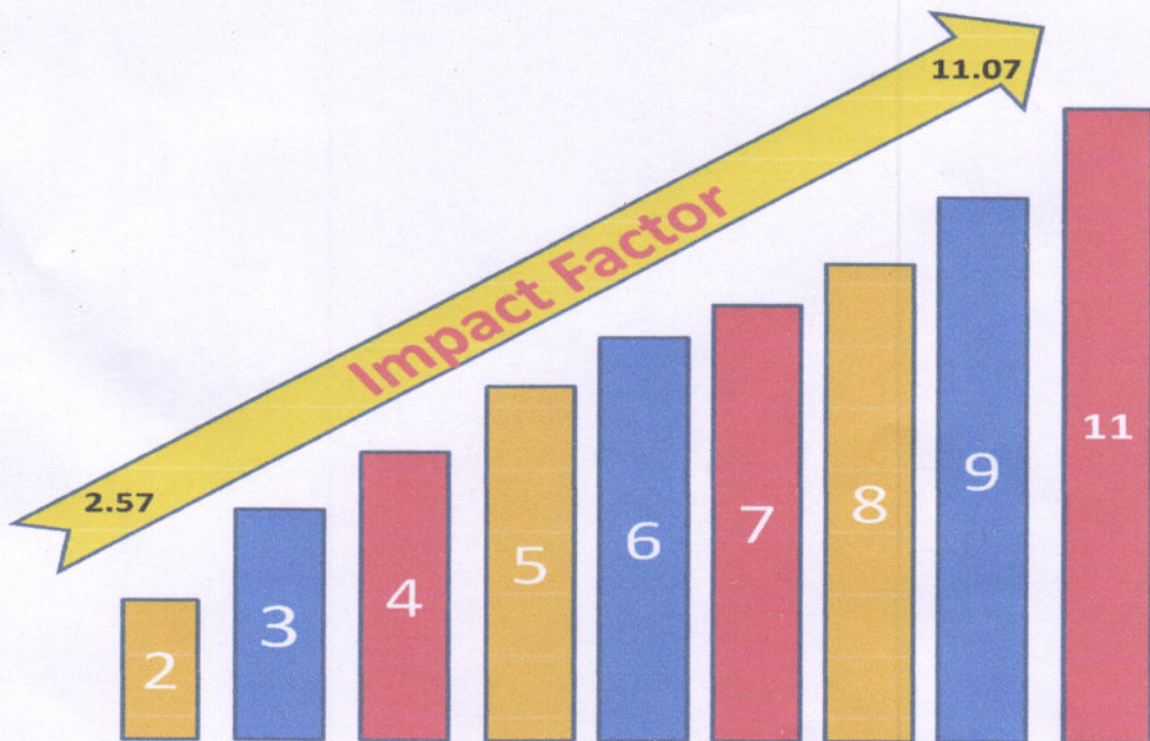
## Farah-Mathura

(AICTE approved & affiliated to AKTU)



# Gems Publications

With





**2.5 TO 11**

**Impact Factor**

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# Production of bio-oil from lychee-based biomass through pyrolysis and maximization of bio-oil yield with statistical and machine learning techniques

Yashvir Singh<sup>a, b</sup>  , Deepak Singh<sup>c</sup>, Nishant Kumar Singh<sup>d</sup>, Abhishek Sharma<sup>e</sup>, Erween Abd Rahim<sup>a</sup>, Arunkumar Ranganathan<sup>f</sup>, Pandiarajan Palanichamy<sup>g</sup>.

Research

CLINICAL  
INVESTIGATION  
INVESTIGATION



## Study of dielectric behavior of high density polystyrene with agro waste composites

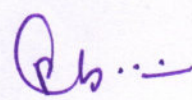
### Abstract

Polymer composites have been prepared with natural fibres obtained from the agro waste of pigeon pea stalk as reinforcing material using waste polystyrene as matrix by solvent casting method. The samples

Vinod Kumar Kushwah<sup>1\*</sup>,  
Suruchi<sup>2</sup>, George Sand Franca<sup>3</sup>

## An efficient and provable certificate-based proxy signature scheme for IIoT environment



Girraj Kumar Verma<sup>a</sup>  , B.B. Singh<sup>b</sup>, Neeraj Kumar<sup>c</sup>, Mohammad S. Obaidat<sup>d, e, f</sup>, Debiao He<sup>g</sup>, Harendra Singh<sup>h</sup>

  
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Full Length Article

## Effect of ZnO nanoparticles concentration as additives to the epoxidized *Euphorbia Lathyris* oil and their tribological characterization

[Yashvir Singh](#)<sup>a</sup>  , [Nishant Kumar Singh](#)<sup>b</sup>, [Abhishek Sharma](#)<sup>c</sup>, [Amneesh Singla](#)<sup>d</sup>, [Deepak Singh](#)<sup>e</sup>, [Erween Abd Rahim](#)<sup>f</sup>





Process Safety and Environmental Protection

Volume 121, January 2019, Pages 94-102



## RETRACTED: Production of polanga methyl esters and optimization of diesel engine parameters through response surface methodology approach

[Abhishek Sharma](#)<sup>a</sup>, [Yashvir Singh](#)<sup>b</sup>  , [Gyanendra Kumar Singh](#)<sup>c</sup>, [Abraham Talargie Habte](#)<sup>d</sup>, [Nishant Singh](#)<sup>e</sup>





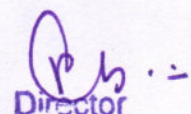
Computers in Biology and Medicine

Volume 139, December 2021, 104968



## Breast cancer prediction using a hybrid method based on Butterfly Optimization Algorithm and Ant Lion Optimizer

[Shankar Thawkar](#)<sup>a</sup>  , [Satish Sharma](#)<sup>b</sup>, [Munish Khanna](#)<sup>c</sup>, [Law kumar Singh](#)<sup>c</sup>



  
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Original Research Article

# Feature selection and classification in mammography using hybrid crow search algorithm with Harris hawks optimization

Shankar Thawkar  





Wear

Volumes 486–487, 15 December 2021, 204057














# Performance of CuO nanoparticles as an additive to the chemically modified Nicotiana Tabacum as a sustainable coolant-lubricant during turning EN19 steel

Nishant Kumar Singh <sup>a</sup>, Yashvir Singh <sup>b</sup>  , Abhishek Sharma <sup>c</sup>, M.K. Paswan <sup>d</sup>,  
Vijay K. Singh <sup>e</sup>, Avani Kumar Upadhyay <sup>f</sup>, Vishwa Ratna Mishra <sup>g</sup>



materials

## Experimental Investigation of Different Fineness and Firing Temperatures on Pellets Properties of Different Iron Ore fines from Indian Mines

by  Rakesh Prasad <sup>1,2,\*</sup>  ,  Shatrughan Soren <sup>1</sup> ,  L. A. Kumaraswamidhas <sup>3</sup> ,  
 Chandan Pandey <sup>4,\*</sup>  and  S. K. Pan <sup>5</sup> 

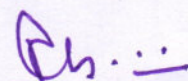
  
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Listed Papers with Impact  
Factor in the respective Journals  
[More than 60 Articles]



Paper-Title	Journal name	Impact Factor
Production of bio-oil from lychee-based biomass through pyrolysis and maximization of bio-oil yield with statistical and machine learning techniques	Journal of Cleaner Production	11.07
Study of Dielectric behavior of high density polystyrene with agro waste composites	Clinical Investigaton	9.25
A station crashing-based recursive approach for disassembly line balancing problem in the presence of task failure	International Journal of Production	9.08
Provably secure certificate-based proxy blind signature scheme from pairings	Information Sciences	8.1
An efficient and provable certificate-based proxy signature scheme for IIoT environment	Information Sciences	8.1
Effect of ZnO nanoparticles concentration as additives to the epoxidized <i>Euphorbia Lathyris</i> oil and their tribological characterization	Fuel	8.03
Diesel engine performance and emission analysis running on jojoba biodiesel using intelligent hybrid prediction techniques	Fuel	8.03
Prediction of performance and emission parameters of Kusum biodiesel based diesel engine using neuro-fuzzy techniques combined with genetic algorithm	Fuel	8.03
Effect of SiC nanoparticles concentration on novel feedstock <i>Moringa Oleifera</i> chemically treated with neopentylglycol and their tribological behavior	Fuel	8.03
Friction and wear behavior of chemically modified Sal ( <i>Shorea Robusta</i> ) oil for bio based lubricant application with effect of CuO nanoparticles	Fuel	8.03
Effect of design parameters on performance and emissions of DI diesel engine running on biodiesel-diesel blends: Taguchi and utility theory	Fuel	8.03
Development of Bio-Based Lubricant from Modified Desert Date Oil ( <i>Balanites Aegyptiaca</i> ) with Copper Nanoparticles Addition and their Tribological Analysis	Fuel	8.03
Effective Utilization of tobacco ( <i>Nicotiana Tabaccum</i> ) for Biodiesel Production and its Application on Diesel Engine Using Response Surface Methodology Approach	Fuel	8.03
Chemical modification of Julifora oil with trimethylprpone (TMP) and effect of TiO <sub>2</sub> nanoparticles concentration during tribological investigation.	Fuel	8.03
Effect of SiC nanoparticles concentration on novel feedstock <i>Moringa Oleifera</i> chemically treated with Neopentylglycol and their tribological behavior:	Fuel	8.03

  
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Friction and wear behavior of chemically modified Sal (Shorea Robusta) oil for bio based lubricant application with effect of CuO nanoparticles	Fuel	8.03
Chemical modification of Julifora oil with trimethylprpone (TMP) and effect of TiO2 nanoparticles concentration during tribological investigation	Fuel	8.03
Development of bio-based lubricant from modified desert date oil(balanites aegyptiaca) with copper nanoparticles addition and their tribological analysis	Fuel	8.03
Production of polanga methyl esters and optimization of diesel engine parameters through response surface methodology approach	Process Safety and Environmental	7.9
Structure and properties of polyaniline nanocomposite coatings containing gold nanoparticles formed by low-energy electron beam deposition	Applied Surface Science	7.393
Classification of masses in digital Mammograms using Biogeography-based optimization	Journal of King Saud university-Computer and Information Sciences	6.9
Breast cancer prediction using a hybrid method based on Butterfly Optimization Algorithm and Ant Lion Optimizer	Computers in Biology and Medicine	6.69
Sustainability of jojoba/diesel blends for DI diesel engine applications-taguchi and response surface methodology concept	Industrial Crops and Products (Elsevier)	6.4
Optimization of performance and emission parameters of direct injection diesel engine fuelled with with pongamia methyl esters- response surface methodology approach	Industrial Crops and Products (Elsevier)	6.4
A novel multimodality based dual fusion integrated approach for efficient and early prediction of glaucoma	Biomedical Signal Processing and	6.19
Feature selection and classification in mammography using hybrid crow search algorithm with Harris hawks optimization	Biocybernetics and Biomedical Engineering	5.687
Measurement of AC and DC relaxation properties in polyvinyl chloride (PVC) nanocomposites	Measurement	5.13
Bandwidth Efficient Designated Verifier Proxy Signature Scheme for Healthcare Wireless Sensor Networks	Ad Hoc Networks	4.8
Artificial intelligence based medical decision support system for early and accurate breast cancer prediction	Advances in Engineering Software	4.8

  
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Collaboration of features optimization techniques for the effective diagnosis of glaucoma in retinal fundus images	Advances in Engineering Software	4.8
Study of structural, thermal and piezoelectric properties of polyvinylidene fluoride –BaZrO <sub>3</sub> nanocomposites	Journal of Thermal Analysis and	4.75
Piezoelectric and pyroelectric properties of ceramic nanoparticles-based nanostructured PVDF/PVC blend nanocomposites	Journal of Thermal Analysis and	4.75
Study of human blood under influence of magnetic field by AC dielectric and thermally stimulated discharge current methods	Journal of Thermal Analysis and	4.75
Measurement of thermally stimulated discharge current (TSDC) for detection of thyroid-stimulating hormone (TSH) in human blood	Journal of Thermal Analysis and	4.75
Air-gap thermally stimulated discharge currents in PVDF-PMMA double-layered samples	Journal of Thermal Analysis and	4.75
Improvement of process performance of powder mixed electrical discharge machining by optimization -A Review	Advances in Materials and Processing Technologies	4.73
An Environmental-Friendly Electrical Discharge Machining Using Different Sustainable Techniques: A review.	Advances in Materials and Processing Technologies	4.73
Moringa Oleifera: Bio based lubricant development from a novel feedstock for tribological characterization.	Advances in Materials and Processing Technologies	4.73
Improvement of process performance of powder mixed electrical discharge machining by optimization-A Review	Advances in Materials and Processing Technologies	4.73
Comparative study of Rotary-EDM, Gas Assisted-EDM, and Gas Assisted Powder Mixed-EDM of the hybrid metal matrix composite.	Advances in Materials and Processing Technologies	4.73
Experimental Investigation for Sustainable Electric Discharge Machining with Pongamia and Jatropha as dielectric medium.	Advances in Materials and Processing Technologies	4.73

  
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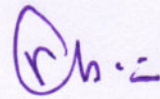
Performance of CuO nanoparticles as an additive to the chemically modified Nicotiana Tabacum as a sustainable coolant-lubricant during turning EN19 steel	Wear	4.6
Dielectric, pyroelectric and polarization behavior of polyvinylidene fluoride (PVDF)-gold nanoparticles (AuNPs)	vacuum	4.1
Investigation of TSDC and dielectric modulus of PVDF-BaZrO <sub>3</sub> nanocomposites thin film	Vacuum	4.1
Experimental Investigation of Different Fineness and Firing Temperatures on Pellets Properties of Different Iron Ore fines from Indian Mines	Materials	3.74
Effect of Different Lubricating Environment on the Tribological Performance of CNT Filled Glass Reinforced Polymer Composite	Materials	3.74
Emperor penguin optimization algorithm- and bacterial foraging optimization algorithm-based novel feature selection approach for glaucoma classification from fundus images	Soft Computing	3.7
A Hybrid model using Teaching-learning-based optimization and Salp Swarm Algorithm for Feature Selection and Classification in Digital Mammography	Journal of Ambient Intelligence and Humanized	3.66
Dielectric behavior and structural characterization of polymeric double layer thin films	Journal of Applied	3.07
Application of Response Surface Methodology to Optimize Diesel Engine Parameters fuelled with Pongamia Biodiesel/Diesel Blends Energy Sources	Part A: Recovery, Utilization, and Environmental	2.9
Preparation, characterization and microhardness measurements of hybrid nanocomposites based on PMMA+ P (VDF-TrFE) and graphene oxide	Polymer Bulletin	2.8
Effect of interface in dielectric relaxation properties of PEMA-BaZrO <sub>3</sub> nanocomposites	Polymer Bulletin	2.8
Rapid and selective electrochemical detection of pb+2 ions using aptamer-conjugated alloy nanoparticles	S N Applied Sciences	2.8
Effect of alumina nanoparticles as additive on the friction and wear behavior of polanga-based lubricant	SN Applied Sciences	2.8
Intelligent hybrid approaches for ensuring better prediction of gas assisted EDM responses	SN Applied Sciences	2.8
Predictive analysis of surface roughness in argon-assisted EDM using semi empirical and ANN techniques.	SN Applied Sciences	2.8
Integration of GA and neuro-fuzzy approaches for the predictive analysis of gas-assisted EDM responses	SN Applied Sciences	2.8
Intelligent hybrid approaches for ensuring better prediction of gas-assisted EDM responses.	SN Applied Sciences	2.8
Deep learning based computer-aided automatic prediction and grading system for diabetic retinopathy	Multimedia Tools and	2.57

  
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PlaNet: a robust deep convolutional neural network model for plant leaves disease recognition	Multimedia Tools and	2.57
Deep-learning based system for effective and automatic blood vessel segmentation from Retinal fundus images	Multimedia Tools and	2.57
A novel approach for human diseases prediction using nature inspired computing & machine learning approach	Multimedia Tools and	2.57
Nature-inspired computing and machine learning based classification approach for glaucoma in retinal fundus images	Multimedia Tools and	2.57
An IoT based predictive modeling for Glaucoma detection in optical coherence tomography images using hybrid genetic algorithm	Multimedia Tools and Applications	2.57
Performance evaluation of various deep learning based models for effective glaucoma evaluation using optical coherence tomography images	Multimedia Tools and Applications	2.57



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