



Bharati Vidyapeeth's College of Engineering, New Delhi – 110063

1. Title of the Event: REPSI - 2026 (5th INTERNATIONAL CONFERENCE)

2. Objective of the Event: The 5th International Conference on **Renewable Energy Potential for Sustainable Initiatives - REPSI 2026** was organized successfully by the Department of Electrical and Electronics Engineering and Department of Instrumentation and Control Engineering on 6th -7th February 2026, in collaboration with the Institution's Innovation Council, IET India as technical partner and Tata Power as Industry partner. Esteemed guests from various academic institutes and organizations related to the renewable energy sector were invited as guests of honor. The event commenced with an inaugural address by the Principal, **Dr. Dharmender Saini**, held in the newly constructed seminar hall of the F-Block building. The inaugural keynote address was delivered by **Dr. Malathy Batumalay** from INTI International University, Malaysia. **Mr. Nikhil Pathak**, Head of Collaborations, Sustainability, Technical Services, and Quality Assurance at TPDDL, delivered the second keynote address. His talk primarily emphasized the small yet impactful initiatives that individuals can adopt at home and in the workplace to enhance environmental well-being and contribute to a more sustainable future. The concluding keynote address was delivered virtually by **Ms. Meetal Bharati**, Scientist at CSIR-NIScPR. The 5th International Conference on Renewable Energy Potential for Sustainable Initiatives (REPSI 2026) embraces the theme **"Energizing the path to Net Zero"**, reflecting the urgent global commitment to achieve carbon neutrality. As nations, Industries, and communities work together to curb emissions, renewable energy technologies stand at the forefront of this transition. Achieving Net Zero requires more than commitments; it demands innovation, collaboration, and transformative solutions across energy systems worldwide. This theme captures the essence of advancing renewable technologies, integrating energy storage, adopting smart grids, and leveraging cutting-edge materials-including polymers and composites-to reduce environmental impact. At REPSI 2026, the theme serves as a call to action for academia, industry, policymakers, and innovators to come together and share knowledge that accelerates the transition towards clean energy.

3. Benefits in terms of learning / skill / knowledge obtained: Attending the REPSI 2026 conference themed “Energizing the Path to Net Zero” offers significant learning benefits for professionals in the energy sector. REPSI provides deep insights into the latest advancements in renewable energy integration, carbon management technologies, hydrogen development, and decarbonization strategies. Participants gain exposure to real-world case studies, policy frameworks, and innovative solutions that support the global transition toward net-zero emissions. The conference also facilitates knowledge exchange with industry leaders, policymakers, and sustainability experts, enhancing understanding of emerging trends, regulatory shifts, and collaborative pathways. Overall, it strengthens both technical expertise and strategic thinking needed to drive sustainable energy transformation.

4. Speaker Details:

- a. Dr. Malathy Batumalay (INTI International University, Malaysia)
- b. Mr. Nikhil Pathak (Head – Contracts & Sustainability, TPPDDL)
- c. Ms. Meetali Bharti (Scientist, CSIR NIScPR)

5. Organiser Details:

Conference Chair:

- a. Prof. Kusum Tharani
- b. Prof. Abhishek Gandhar

Convener:

- a. Dr. Neeraj Kumar
- b. Dr. Bharat Singh

Co-Convener

- a. Dr. Shashi Gandhar
- b. Dr. Sudha K
- c. Dr. Sangeeta Gupta
- d. Dr. Saket Gupta

Organizing Team:

- a. Dr. Sandeep Sharma
- b. Dr. Sandeep Banerjee
- c. Mr. Manish Talwar
- d. Mrs. Ritambhra Katoch



Sessions Snapshots



Sharminder
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New Delhi-63

7. Poster:



The poster is for the 5th International Conference on Renewable Energy Potential for Sustainable Initiatives (REPSI 2026). It features a green background with a large leaf graphic. At the top, logos for the Institution's Innovation Council, Bharati Vidyapeeth, and the 75th anniversary of India's independence are displayed. The text identifies the host as Bharati Vidyapeeth's College of Engineering, New Delhi, affiliated with Guru Gobind Singh Indraprastha University. The conference title is prominently displayed in the center. Below this, three eminent speakers are featured with their portraits and details: Mr. Nikhil Pathak (Head - Contracts & Sustainability, Tata Power DOL), Dr. Malathy Batumalay (INTI International University, Malaysia), and Ms. Meetali Bharti (Scientist, National Institute of Science Communication and Policy Research, CSIR-NIScPR). A section at the bottom left provides event details: dates (6th-7th February, 2026), time (10 AM onwards), and location (BVCOE, New Delhi). The organizing departments are listed as the Department of Electrical and Electronics Engineering and the Department of Instrumentation and Control Engineering. A row of logos for sponsors and partners, including IET, Data Flux, PRETCO, ISA, Delhi Section, POWERMEX, Trinity, and V Instruments, is at the very bottom.

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BHARATI VIDYAPEETH

Celebrating 75th and Beyond

Bharati Vidyapeeth's College of Engineering, New Delhi
(Affiliated to Guru Gobind Singh Indraprastha University, New Delhi)

**5th International Conference on
Renewable Energy Potential for Sustainable Initiatives**

REPSI 2026

"EMINENT SPEAKERS"

Mr. Nikhil Pathak
Head - Contracts & Sustainability,
Tata Power DOL

Dr. Malathy Batumalay
INTI International University,
Malaysia

Ms. Meetali Bharti
Scientist, National Institute of Science
Communication and Policy Research
(CSIR-NIScPR)

**6TH - 7TH
February, 2026**

**10 AM
Onwards**

**BVCOE
New Delhi**

ORGANIZED BY:
Department of Electrical and Electronics Engineering
&
Department of Instrumentation and Control Engineering

IET **Data Flux** **PRETCO** **ISA** **Delhi Section** **POWERMEX** **Trinity** **V Instruments**

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5th International Conference
on
Renewable Energy Potential for
Sustainable Initiatives



REPSI 2026

6 - 7 February 2026

Department of Electrical and Electronics
Engineering
&

Department of Instrumentation and
Control Engineering

IET India

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OF ENGINEERING, NEW DELHI**

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
&
DEPARTMENT OF INSTRUMENTATION & CONTROL
ENGINEERING

SCHEDULE

- 11:00 A.M. Introduction
11:05 A.M. Lamp Lighting
11:10 A.M. Felicitation
11:20 A.M. Address By Principal Prof. Dharmender Saini
11:30 A.M. Address By Conference Chair Dr. Kusum Tharani
11:40 A.M. Address By Guest of Honour Dr. Malathy Batumalay
(INTI International University, Malaysia)
11:55 A.M. Address By Guest of Honour Mr. Nikhil Pathak
(Head - Contracts & Sustainability, Tata Power DDL)
12:10 P.M. Address By Guest of Honour Ms. Meetali Bharti
(Scientist, National Institute of Science Communication
and Policy Research (CSIR-NIScPR))
12:25 P.M. Vote of thanks

Dharmender
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6. Photographs: Snapshots of Inauguration (REPSI 2026)



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PROGRAM SCHEDULE

06.02.2026 Friday	INAUGURAL SESSION Timings: 11:00 AM – 12:30 PM
Inaugural Address	1. Prof. (Dr.) Dharmender Saini, <i>Principal</i> 2. Prof. (Dr.) Kusum Tharani, <i>Head, EEE Department</i>
Key Note-1	Dr. Malathy Batumalay, <i>INTI International University, Malaysia.</i>
Key Note-2	Mr. Nikhil Pathak, <i>Head – Contracts & Sustainability, Tata Power DDL.</i>
Key Note-3	Ms. Meetali Bharti, <i>Scientist at the CSIR – National Institute of Science Communication and Policy Research (CSIR – NIScPR) & Editor in Chief – Indian Journal of Engineering and Material Science.</i>

06.02.2026 Friday 2:00 PM – 4:30 PM	Session - I	
	Venue -- F 401	
	Session Chair: Dr. Malathy Batumalay, <i>INTI International University, Malaysia.</i> Session Co-Chair: Dr. Sangeeta Gupta, Assistant Professor, Dept of ICE, BVCOE, New Delhi.	
Presentation Schedule		
S. No	Paper ID	Paper Title & Authors
1	81	Polymers and Other Advance Materials: State of Art Review <i>Ranjana Mishra</i> , Praveen Kumar Dwivedi, Sumit Chawla, Saurabh Kumar Agrawal, Amreeta Preetam, Pooja Bhati
2	111	Next-Generation Polymer Recycling for Circular and Sustainable Plastics <i>Nidhi Gupta</i> – <i>MSIT, New Delhi</i>
3	102	AI-Based Power Outage Preparedness Recommendation System Dr. Kusum Tharani, <i>Laiba Zeba</i> , Neeraj Kumar, K. Sudha, Arun Chaudhary - Ministry of New and Renewable Energy Government of India New Delhi
4	99	Comprehensive Study of Solar PV Modeling and Control Strategies for Photovoltaic Emulator Configuration <i>Simmi Sharma</i> , Dheeraj Joshi -JIT, Noida, DTU Delhi
5	91	AI-IoT Enabled Energy-Efficient Smart Irrigation Using Piezoelectric Sensors for Sustainable Agriculture Kusum Tharani, <i>Anushka Sharma</i> , Diya Gupta, Khushi Goel, Aakash Seth
6	95	Intelligent Polymer-Integrated Wearable Platforms for Sustainable IoT and Predictive Health Monitoring for Migraine Detection Kusum Tharani, <i>Anika Ahuja</i> , Mehak Vasudeva, Yug
7	110	Polymer-Based Composite Systems for the Controlled Release of Agrochemicals: A Review of Strategies Against Major Potato Pathogens <i>Kajal Kaul</i>


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06.02.2026 Friday 2:00 PM — 4:30 PM	Session – 2	
	Venue – F 402	
	Online Meeting Link - https://meet.google.com/qsv-bvpa-puc	
	Session Chair: Dr. Astitva Kumar, Assistant Professor, Department of Electrical Engineering, NSUT, New Delhi. Session Co-Chair: Dr. Saket Gupta, Assistant Professor, Dept of ICE, BVCOE, New Delhi.	
Presentation Schedule		
S. No	Paper ID	Paper Title & Authors
1	114	Design and Implementation of a Polymer-Integrated IoT- Based Smart Intravenous Fluid Monitoring System for Patient Safety Ritambhara Katoch, <i>Saurabh Kumar</i>
2	116	Polymeric Materials in the Anthropocene: Environmental Accumulation, Human Health Concerns, and Cultural Response Vandita Sharma, Nitu Sehwat, Manisha Verma, <i>Nisha Malhotra</i>
3	113	Regenerative Braking System in Solar Assisted Electric Vehicle Dr. Sunil Gupta, Dr. Nidhi Gupta, Dr. Abhishek Gandhar, Nirbhay Tiwari, Sujal, <i>Kartikeya Singh Negi, Isha Gupta.</i>
4	118	Solar Power Forecasting using the LSTM Model Neeraj Kumar, Kusum Tharani, Mritsa Singh, Sadaf Naqvi, Simran Kaur, <i>Simran Bhatia</i>
5	56	Modern Heritage Restoration Using GANs: Insights into Polymer–Composite Aging Vijay Kumar, Apurva Jain, Rachna Narula, Deepika Varshney, Mohit Aggarwal, <i>Tulika Bhatia</i>
6	93	Electron Transfer in Eco-Friendly P3HT–rGO Hybrid Nano composites for Optoelectronic Applications <i>Sumit Kumar</i> , Tanvi Vats, Ashu Soni, Pratibha Tiwari (<i>online</i>)
7	75	Development and Performance Evaluation of GO–ZnO/PU Hybrid Nanocomposite Coatings for Improved Optical Transmission, Cooling, and Self-Cleaning in PV Systems Dr. Sandeep Sharma, Dr. K. Sudha, Dr. Nidhi Gupta, Dr. Bharat Singh, <i>Dr. G. Sivagurunathan (online)</i>
8	11	Development and Performance Evaluation of Polymer-Based Nanocomposite Coatings to Enhance the Efficiency of Solar Photovoltaic Panels Sandeep Sharma, <i>Lalit Mohan</i> , Ajay Dureja, Sandeep Banerjee, Bharat Singh (<i>online</i>)
9	65	Simulation Based Industrial Waste Water Driven Pico Hydro power Based Charging Sagar S. Patil, Deepali A Suryawanshi, <i>R.M. Holmukhe</i> , Datta, S. Chavan, Atul J Patil (<i>online</i>)

Sharminder

06.02.2026 Friday 2:00 PM — 4:30 PM	Session – 3 Venue – F 403 Online Meeting Link - https://meet.google.com/sto-ofvv-qdh	
	Session Chair: Dr. Bhavnesh Kumar, Associate Professor, Department of Electrical Engineering, NSUT, New Delhi. Session Co-Chair: Dr. Sandeep Banerjee, Associate Professor, Dept of EEE, BVCOE, New Delhi	
Presentation Schedule		
S. No	Paper ID	Paper Title & Authors
1	90	A Hybrid model of ResNet50 integrated U-Net for image Denoising for Polymer and Composite Microstructure Analysis Akanksha Kochhar, Anu Yadav, Aarti Serhwal, Sanskar Kannaujia, <i>Rishabh Jain, Piyush Thakur</i>
2	88	Review of Polymers and Composites in the Design of Unmanned Aerial Vehicles Sandeep Banerjee, <i>Ojas</i>
3	96	Design and Implementation of Smart Grid Technologies for Efficient, Reliable, and Sustainable Power Distribution Abhishek Gandhar, Tripti Tiwari, Shashi Gandhar, Mohit Tiwari, Dheeraj Garg - Conestoga High School, Pennsylvania, United States (<i>online</i>)
4	84	AI-Driven Lightning Strike Prediction Using Polymer-Integrated Sensor Platforms for Climate-Resilient Energy Systems in India Kusum Tharani, K. Sudha, Surinder Kaur, <i>Manish Talwar</i> , Neeraj Kumar
5	55	A Sustainable and Green Prototyping Framework for Low-Carbon and Resource-Efficient Virtual Product Development <i>Khiraling Patil</i> , Dr Sachhidanand Reur, Dr Ashok Kumar Vanageri (<i>online</i>)
6	103	Comparative Environmental and Economic Assessment of Wind Turbine Blade Materials <i>Abinash Singh</i> , Chandigarh University (<i>online</i>)
7	77	Explainable Machine Learning Integrated with Polymer-Based Diagnostic Technologies for Liver Health Classification Amrita Koul, N P Singh, <i>Jyotsana</i> (<i>online</i>)
8	82	Development and Thermal-Soiling Performance Evaluation of Boron-Nitride Reinforced Polymer Nanocomposite Coatings for Solar Photovoltaic Applications Sandeep Sharma, Bharat Singh, <i>Lalit Mohan Trivadi</i> , Ajay Dureja, K. Sudha (<i>online</i>)
9	119	Grey Wolf Optimizer Based STATCOM Control for Voltage Regulation in Solar-Wind Hybrid Microgrid <i>Dhammapal Kambale</i> , Totappa Hasarmani, Abhishek Gandhar, Santosh Tamke(<i>online</i>)

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07.02.2026 Saturday 10:00 AM — 12:00 PM	Session –I	
	Venue – F 401	
	Online Meeting Link - https://calendar.app.google/JT8a7fTRneGogksR6	
	Session Chair: Dr. Shalabh Kumar Mishra, Assistant Professor, Department of Electronics and Communication Engineering, Madan Mohan Malviya University of Technology Gorakhpur	
	Session Co-Chair: Dr. Neeraj Kumar & Dr. Bharat Singh, Associate Professor, Dept of EEE, BVCOE, New Delhi	
Presentation Schedule		
S. No	Paper ID	Paper Title & Authors
1	51	Enhancing Sustainable Energy and Power Quality in Higher Education: A Pathway toward SDG 7 and 12 Diksha Chopade, <i>Rajesh Holmukhe</i> , Milind Patwardhan, Kalyani Chaudhari, Pranali Yawale, Abhishek Gandhar - BVUCOE Pune
2	63	CITIMAN: Sustainable Polymer-Driven Smart City Design to Monitor, Manage, And Mitigate Amrita Ticku, <i>Srishti Vashishtha</i> , Payal Malik, Nisha Malhotra, Jyoti Kumari
3	100	Green Miles - Carbon Neutral Flight Estimator Dr. Kusum Tharani, Trisha Rai, <i>Vanshika Budhiraja</i> , Rimjhim Bansal Dr. Seshadri A N - Smart Fuel Pvt Ltd.
4	86	Short-Term Load Forecasting via XGBoost: Integrating Predictive Modeling with Interactive Feature Analysis Using Streamlit Abhishek Gandhar, <i>Pranaya Bansal</i> , Shashi Gandhar, Ashish Kumar, Sanjay Agarwal - National Institute of Technology, Meghalaya
5	115	Machine Learning Assisted Design and Analysis of Polymer Composite Materials for Sustainable Renewable Energy Systems <i>Jatin Thakur</i> , Ramesh Narwa, Nishant Sharma - Jaypee University of Information Technology, Himachal Pradesh
6	112	Polymer and Composite Materials for Smart Potato Plant Disease Detection Systems: A Review <i>Kajal Kaul</i>
7	106	Modelling-Based Evaluation of Hybrid Natural–Synthetic Fiber Polymer Composites for Sustainable Energy Applications <i>Mahesh Kumar</i>


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Development and Characterization of Rubber Composites using E-Waste Residue as Functional Filler

By Rajesh Kumar, Basant Lal, Arti Maan, Mukul Das,

Abstract : In the present study, residue generated during the recycling of end-of-life printed circuit boards (PCBs) was utilized as a functional filler in [read more](#)

[This section belongs to [Journal of Polymer & Composites \(JOPC\)](#)]

512-523

Cyber-Secure IoT Framework for Monitoring Fiber-Reinforced Polymer Composites Using Embedded Sensors

By Pasuluri Bindu Swetha, Vandana Ahuja, Sunil Kr Pandey, Pacha Supriya, Sohan Das, G. Nagaraj,

Abstract : The present research paper suggests a cyber-safe Internet of Things system in real-time monitoring of fiber-reinforced polymer composites with inbuilt [read more](#)

[This section belongs to [Journal of Polymer & Composites \(JOPC\)](#)]

434-458

Polymer-Based Nanocomposite Coatings for Enhancing Solar Photovoltaic Panel Efficiency

By Sandeep Sharma, Lalit Mohan Trivadi, Ajay Dureja, Sandeep Banerjee, Poras Khetarpal,

Abstract : Environmental factors such as dust deposition, ultraviolet (UV) radiation, and surface reflection significantly reduce the performance of solar [read more](#)

[This section belongs to [Journal of Polymer & Composites \(JOPC\)](#)]

490-497

Biopolymer Degradation and Structure–Property Relationships in Ageing: A Polymer Science Perspective

By Mona Chaurasiya, Gajendra Prasad,

Abstract : Ageing, as viewed from the polymer sciences perspective, is perceived as the gradual modification of the structure-property-function interrelationship [read more](#)

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479-489

A Sustainable and Green Prototyping Framework for Low-carbon and Resource-efficient

Indexing



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Principal Contact

Aditi Tyagi

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21.12

Abstract : The increasing emphasis on sustainable manufacturing has intensified the need for environmentally responsible design and development methodologies for [read more](#)

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459-471

Experimental and Process Optimization Study on Thermal Stress Reduction in TiC–Steel Brazed Joints Using Polymer-Derived Composite Interlayers

By Yogesh Agrawal, Sanjay D. Nikhade, Yogesh Ramdas Mahulkar, Dhanashri Jayant Ganore, Anil Singh Yadav, Nandkishor Sawai.

Abstract : In this, an experimental investigation aimed at reducing crack formation due to thermal stress in TiC-steel brazed joints through optimization of key [read more](#)

[This section belongs to [Journal of Polymer & Composites \(JOPC\)](#)]

524-540

591

Automated Microstructure Classification with Class-Specific Segmentation for Titanium Based Composite Materials

By Pritam Biswas, Sourav Debnath, Avishek Nath, Paramita Sarkar, Soumyajit Roy, Krishna Kumar Jha,

Abstract : In engineering, characterisation of microstructure is required to determine and forecast behaviour of titanium alloys. Our proposal in this work has [read more](#)

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424-433

Comparative Analysis of the Structural Integrity and Dimensional Stability of Additively Manufactured Biopolymers vs. Thermoformed PETG: A 1-Year Retrospective Study on Polymer Performance in Orthodontic Applications

By Sujitha Suresh, Remmiya Mary Varghese, Parthiban Saketharaman, Mounica Dommeti, V.S. Kumar Bhagavathula, Gadde Harika,

Abstract : Objective: This study aimed to evaluate the long-term dimensional accuracy and structural performance of direct 3D-printed biopolymers compared to [read more](#)

[This section belongs to [Journal of Polymer & Composites \(JOPC\)](#)]

140-146

Polymer Composite-Supported Jackfruit Peel Adsorbent for Enhanced Copper (II) Removal from Wastewater: Batch Equilibrium and Isotherm Analysis

By Sandeep Shewale, Abhijeet Malge,

Abstract : The increasing concern of disposal of copper-containing effluents into the environment has led to heightened interest in designing cost-effective, [read more](#)

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375-390

Effect of Barium Sulphate on Mechanical Properties of Woven Aloe Vera/Flax Reinforced

21.13

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Epoxy Composites

By Arul Murugan M., Boopathy G., Sundharesan R., Booma Devi,

Abstract : Natural fiber-reinforced composites are becoming popular because of their lightweight, eco-friendly, and sustainable nature. Nevertheless,

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355-365

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21.14

Journal of Polymer & Composites

Y-ISSN: 2021-2010 | P-ISSN: 2021-8625 | Peer-Reviewed Journal (Refereed Journal) | Hybrid Open Access

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About the Journal

Journal of Polymer & Composites is a peer-reviewed Hybrid Open Access journal launched in 2013, serving the fields of reinforced plastics and polymer composites, including research, production, processing, and applications. JOPC brings detailed developments in this rapidly ...

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Journal Metrics

Key performance indicators showcasing our journal's impact and reach

			
1453	43.61	40	—
Published Articles (2024)	Days Acceptance Time	Day Publication Time	Total Visits

21.15

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Journal Information

Title:

Journal of Polymer & Composites

Abbreviation:

JOPC

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Web of Science, Citefactor, Chemical Abstracts Service (CAS), Scientific Literature (SCILIT),

ICV Value: 2022 : 68.37 , 2024 : 115.22

Impact	2020 :	2021 :	2022 :	2023 :	2024 :
Factor(SJIF):	6.025	6.018	6.005	6.005	6.005

Address:

21.16

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Latest Articles

[Ahead of Print](#)

Sustainable Utilization of Recycled Polymers in Bituminous Polymer Composites: Influence of Processing Technique on Mechanical and Durability Characteristics

Author: Abhishek Garg, Sudhir Kumar, Bajrang Lal Swami, Shivangni Khandelwal, Nikhil Mathur

The growing accumulation of post-consumer polymer waste has intensified the need for sustainable recycling strategies capable of transforming them into value-added engineering products.

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Recycled polymers Bituminous polymer composites PET HDPE LDPE

Sustainable materials Mechanical performance Durability.

 14/10/2026  Ahead of Print   Subscription  Original Research  -

Advanced Material Design and Fabrication Efficiency Using Cloud Computing: A Scalable Computational Framework for Polymer Nanocomposites

Author: K. Arun Kumar, Anumula Sruthi, N. Bala Sundara Ganapathy, B. Anni Princy, E. Sivajothi, Duvvuri Eswara Chaitanya, J. Jeya Caleb

The design of the material, the prediction of the properties and the fabrication techniques should be enhanced to efficiently use the high performance polymer nanocomposites.

Material Design Fabrication Optimization Predictive Modeling

Computational Framework Sustainable Materials

 13/10/2026  Ahead of Print   Subscription  Review Article  -

A Review of Modified Cellulose for Electrochemical Energy Storage with a Multiphysics Framework for Quaternized Bagasse Nanocellulose/ Al_2O_3 -PEO Composite Electrolytes in Solid-State Batteries

Author: Dipak A. Nikam, Rupesh S. Shelke

A critical review of modified cellulose for electrochemical energy storage is integrated with a potassium-specific multiphysics framework using cellulose obtainable from India-relevant feedstocks, including sugarcane bagasse, cotton/cotton stalk, banana pseudostem, Hibiscus/kenaf-type biomass, and other agricultural residues.

Modified cellulose electrochemical energy storage

quaternized bagasse nanocellulose composite polymer electrolyte PEO-KTFSI

Al_2O_3 nanocomposite solid-state potassium batteries.

21.18


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Agricultural Waste-Derived Nanocellulose Composites in Pharmaceutical Packaging: Barrier Performance, Regulatory Considerations and Translational Gaps

Author: Bhawna Pant, Manish Maan

Pharmaceutical primary packaging is dominated by poly (vinyl chloride) (PVC), poly (vinylidene chloride) laminates and cold-form aluminium, chosen for barrier performance rather than end-of-life behaviour.

Nanocellulose Agricultural waste Pharmaceutical packaging

Water vapour transmission rate Cellulose nanocrystals

Extractables and leachables Barrier composites Tortuosity

Machining Performance and Tool Wear Behaviour of 3D Carbon Fibre-Reinforced Silicon Carbide Composites

Author: Santosh Kumar. K, V. Ajay Kumar, T. Nagaveni, K. Saraswathamma

3D Cf/SiC composites, consisting of carbon fibers reinforced with silicon carbide are increasingly used in aerospace and defence due to their excellent mechanical properties and high-temperature strength.

3D Cf/SiC composites Dry milling PCD tool Surface roughness Tool wear.

Development of IoT-Enabled Circular-Economy Polymer Composites from Recycled Plastics and Agricultural Waste Fibers

Author: S. Lalitha, Abhishek Bhattacharjee, Rashid Hashmi, Puvvada Nagesh, Rohi
Vandana Ahuja

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Circular polymer composites can help to decrease virgin resin consumption and provide value from agricultural waste, but there are still challenges with recycled-feedstock variability and poor fiber-matrix interfaces to achieve consistent performance.

Recycled polypropylene agricultural waste fibers polymer composites

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