

List of Publications

Patents [5]

1. Patent Title: I-UV-Light Box: Modified Version of UV-Sanitizers; Patent No.: 202211028006; *Applicant(s) & Inventors*: Manoj Kumar Gupta, Harinder Singh, Parul Katiyar, Biplab Kumar Sarkar. [Published]
2. Patent Title: A Protective Garment, Application No.: 202311071210, *Inventor (s)*: Manoj Kumar Gupta & Archana, *Applicant*: MNNIT Allahabad, India [Published]
3. Patent Title: Green Synthesized Silver Nanoparticles Immobilized Poly (ϵ -Caprolactone) and nanocellulose based Biocomposites for Wound Healing. Application No.: 202311020456; *Inventor (s)*: Nidhi Mishra, Shagun varshney, Amar Dhvaj, Amit Prabhakar, Manoj Kumar Gupta, *Applicant*: IIIT Allahabad, India; [Published]
4. Patent Title: An Efficient Cooling Plate for Electric Vehicle Battery, *Inventors* : Ratnesh Pandey, M K Gupta, *Applicant*: MNNIT Allahabad [Filed]
5. Patent Title: Multi-Powered Grass Cutter, *Inventors* : M K Gupta, Radhey Krishna, Rajesh Raj, Ranvijay Singh Chauhan, Shist Kesarwani *Applicant*: MNNIT Allahabad [Filed]

International Journals (92)

1. Abhishek Gaikwad, M. K. Gupta, Kishore Debnath. Characterization of alkaline acid-treated fiber of *Arundo donax* L. from mature and immature plants: a comparative study. *Biomass Conversion and Biorefinery*. DOI: 10.1007/s13399-024-05842-5. [Q1, I F = 3.5, SCIE].
2. P K Gupta, Alok Kumar Trivedi, M K Gupta, Manish Dixit, Metal matrix composites for sustainable products: A review on current development. *Proc IMechE Part L: J Materials: Design and Applications* 1–38. DOI: 10.1177/14644207241238197. [Q2, I F = 2.40, SCI/SCIE]
3. Amarjeet Singh, Alok Kumar Trivedi, M. K. Gupta, Harindar Singh. Static, dynamic mechanical, and thermal analysis of coir/epoxy composites: Effect of hollow glass microspheres reinforcement. *Polymer composites*. August 2023; 44(12):8529-8540, DOI: DOI: 10.1002/pc.27717. [Q1, I F = 5.20, SCIE].
4. P Jagadeesh, Madhu P, Indran Suyambulingam, M K Gupta, Sanjay MR, Suchart Siengchin. Analysis of friction and wear performance of eco-friendly basalt filler reinforced polylactic acid composite using the Taguchi approach. *Journal of*

Thermoplastic Composite Materials. November 2023, DOI: 10.1177/08927057231211231, [Q2, I F = 4.57, SCI/SCIE].

5. Yash Vishnoi, Alok Kumar Trivedi, M. K. Gupta, Harindar Singh, Sanjay Mavinkere Rangappa. Extraction of Nano-crystalline Cellulose for Development of Aerogel: Structural, Morphological and Antibacterial Analysis. *Heliyon*. December 2023; 10 e23846; 1-14, DOI:10.1016/j.heliyon.2023.e23846 [Q1, I F = 4.00, SCIE]
6. Abhishek Gaikwad, Kishore Debnath, and M. K. Gupta. Effects of alkaline-acid treatment on the physiochemical attributes of natural cellulosic fiber of *A. donax* L. *Journal of Applied Polymer Science*. September 2023; 140(48): e54724, DOI: doi.org/10.1002/app.54724. [Q2, I F = 3.46, SCI/SCIE].
7. Alok Kumar Trivedi, M. K. Gupta. "An efficient approach to extract nanocrystalline cellulose from sisal fibers: Structural, morphological, thermal and antibacterial analysis." *International Journal of Biological Macromolecules*, 123496, vol. 233, pp. 1-12, 2023. doi.org/10.1016/j.ijbiomac.2023.123496. [Q1, I F = 8.20, SCI/SCIE].
8. Alok Kumar Trivedi, M. K. Gupta, Harindar Singh. PLA Based Biocomposites for Sustainable Products: A Review. *Advanced Industrial and Engineering Polymer Research*. October 2023; 6(4): 382-395, DOI: 10.1016/j.aiepr.2023.02.002. [Q1, IF = 9.9, Cite Score: 26.3].
9. S. S. Rana, R Kumar, M. K. Gupta. Investigation of mechanical and thermal behavior of sisal fibre reinforced polymer biocomposites. *Materials Today: Proceedings*, July, 2023, DOI:10.1016/j.matpr.2023.06.167 [Q2, Scopus].
10. Alok Kumar Trivedi, M. K. Gupta. Effect of FDM Process Parameters on Performance of Printed Products: A Short Review on Current trends. *Nanoworld Journal*. March 2023; 9(1): S78-S82. [Q3, Scopus].
11. P. K. Gupta. M. K. Gupta. Optimization of Wear Behaviour of Hybrid Al (6061) -Al₂O₃-B₄C Composites through Hybrid Optimization Method" *Materials Physics and Mechanics*. http://dx.doi.org/10.18149/MPM.51x2023_x [Q4, I F = 0. 733, Scopus/Web of Science]
12. Alok Kumar Trivedi, Arjun Kumar, M. K. Gupta. "Extraction of nanocellulose from wheat straw and its characterization". *Materials Today: Proceedings*. November 2022; 78(1): 48-54, DOI: 10.1016/j.matpr.2022.11.038 [Q2, Scopus].
13. Harindar Singh, Alok Kumar Verma, Alok Kumar Trivedi, M K Gupta, Characterization of Nanocellulose Isolated from Bamboo fibers. *Materials Today: Proceedings*. March 2023, pp: 1-6, DOI: 10.1016/j.matpr.2023.02.300 [Q2, Scopus].
14. R. K. Gond. M. K. Gupta, Development and Characterization of PLA-based Green Nanocomposite Films for Sustainable Packaging Applications. *Journal of Natural Fibers*. December 2022; 19(17): 15738-15750, DOI: 10.1080/15440478.2022.2133057 [Q1, I F = 5.323, SCI/SCIE]

15. Umarav Singh, M. K. Gupta, Harinder Singh, A facile approach for isolation of cellulose nanocrystals from banana fibers. *Indian Journal of Fibre & Textile Research*. [Q3, I F = 0.825, SCI/SCIE]
16. P. K. Gupta, M. K. Gupta. Hybrid Optimization Approach on Electrical Discharge Machining Process for Hybrid Al-Al₂O₃/B₄C Composites" *Materials Physics and Mechanics*. 2022;50(2): 200-215, DOI: 10.18149/MPM.5022022_2 [Q4, I F = 0.733, Scopus/Web of Science]
17. R. K. Gond, M. K. Gupta, T. P. Naik, Inderdeep Singh. Development and characterisation of sugarcane bagasse nanocellulose/ PLA composites. *Materials Technology*. June 2022; 37(14): 2942-2954. DOI: 10.1080/10667857.2022.2088616. [Q1, I F = 3.846, SCI/SCIE].
18. Shagun Varshney, Viswajit Mulpuru, Nidhi Mishra, M K Gupta. Microwave-irradiated novel isolation of nanocellulose from waste rice husk via modified chemo-mechanical route: characterization, in-silico prediction, and its antibacterial activity. *Materials Technology*. March 2022; 37(13): 2608-2622 DOI: 10.1080/10667857.2022.2051939. [Q1, I F = 3.846, SCI/SCIE]
19. M. K Gupta, M. Manimaran, "Investigation of Mechanical and Dynamic Mechanical properties of a novel Acacia arabica fiber polyester hybrid composites" *Polymer Composites*. February 17, 22, 2022; 43(5): 2724-2735. DOI: 10.1002/pc.26569 [Q1, I F = 5.20, SCI/SCIE]
20. M. K. Gupta, M. Ramesh, Sabu Thomas. Effect of hybridization on properties of natural and synthetic fibres reinforced polymer composites (2001-2020): A review. *Polymer Composites*. July 22, 2021; 42(10): 4981-5010, 4981-5010. DOI: 10.1002/pc.26244. [Q1, I F = 5.20, SCI/SCIE]
21. Shagun Varshney, Nidhi Mishra, M.K. Gupta. Progress in nanocellulose and its polymer based composites: A review on processing, characterization, and applications. *Polymer Composites*. May 05, 2021; 42(8), 3660-3686. DOI: 10.1002/pc.26090. [Q1, I F = 5.20, SCI/SCIE]
22. R. K. Gond, M. K. Gupta, Mohammad Jawaid. Extraction of Nanocellulose from Sugarcane Bagasse and its Characterization for Potential Applications. *Polymer Composites*. July 22, 2021; 42(10): 5400-5412. <https://doi.org/10.1002/pc.26232>. [Q1, I F = 5.20, SCI/SCIE]
23. S. S. Rana, M. K. Gupta. Fabrication of Bionanocomposites Reinforced with Hemp Nanocellulose and Evaluation of their Mechanical, Thermal and Dynamic Mechanical properties. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*. April 14, 2021, 235(11) 2470–2481. DOI: 10.1177/14644207211004640. [Q2, I F = 2.40, SCI/SCIE]
24. S. S. Rana, M. K. Gupta. Variations in the mechanical properties of bionanocomposites by water absorption. *Proceedings of the Institution of Mechanical Engineers, Part L:*

- Journal of Materials: Design and Applications. February 9, 2021, 235(7), 1655–1664 DOI: 10.1177/1464420721999694. [Q2, I F = 2.40, SCI/SCIE]
25. Parul Sahu, M. K. Gupta. Dynamic Mechanical Properties of a Biocomposite Reinforced with Sodium-Bicarbonate-Treated Sisal Fibers at Different Frequencies. *Mechanics of Composite Materials*. DOI 10.1007/s11029-021-09935-4. March 16, 2021; 57 (1): 81-90. [Q2, I F = 1.7, SCI/SCIE]
 26. Mohammad Z. R. Khan, Sunil Kumar Srivastava, M. K. Gupta. Characterization Of TiO₂ Microparticle blended Polymer-Based Hybrid Wood Particulate Composites. *Mechanics of Composite Materials*. May 10, 2021; 57, 247–256 DOI: 10.1007/s11029-021-09949-y. [Q2, I F = 1.7, SCI/SCIE]
 27. Mohammad Z. R. Khan, Sunil Kumar Srivastava, M. K. Gupta. Enhancement of the Properties of Hybrid Woods Polymer Composites by Chemical Treatments. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*. November 20, 2020; 235(4), 828–841 DOI: 10.1177/1464420720980033 [Q2, I F = 2.40, SCI/SCIE]
 28. Parul Sahu, M. K. Gupta. Eco-friendly treatment and coating for improving the performance of sisal composites. *Polymer Testing*. January, 2021; 93, 106923: DOI: 10.1016/j.polymertesting.2020.106923 [Q1, I F = 5.10, SCI/SCIE]
 29. Parul Sahu, M. K. Gupta. Water absorption behaviour of Biocomposites: A review on its effect and Remedies. *Journal of Industrial Textiles*. November 26, 2020; 1-33. DOI: 10.1177/1528083720974424 [Q2, I F = 3.721, SCI/SCIE]
 30. R. K. Gond. M. K. Gupta. Development of PLA Based Nanocellulose Film for Packaging Applications. *Journal of Indian Chemical Society*. Vol. 97, October (A) 2020. May 10, 2020. [Q4, I F = 0.242, Scopus, Web of Science]
 31. Madhu P, M. R. Sanjay, M. K. Gupta. Experimental investigation on the mechanical and morphological behaviour of Prosopis juliflora bark fibers/E-glass/carbon fabrics reinforced hybrid polymeric composites for structural applications. *Polymer Composites*. July 26, 2020; 41, 4983–4993. DOI:10.1002/pc.25768. [Q1, I F = 5.20, SCI/SCIE]
 32. R. K. Gond. M. K. Gupta, Preparation of PLA based Biodegradable Nanofibre Films and their characterization. *Indian Journal of Fibre & Textile Research*. Vol. 46, March 2021, 9-14 [Q3, I F = 0.825, SCI/SCIE]
 33. R. K. Gond. M. K. Gupta, A Novel Approach for Isolation of Nanofibres from Sugarcane Bagasse and its Characterization for Packaging Applications. *Polymer Composites*. 2020; 41(12): 5216-5226. DOI: 10.1002/pc.25788. [Q1, I F = 5.20, SCI/SCIE]
 34. S. S. Rana, M. K. Gupta. Isolation of Nanocellulose from Hemp (*Cannabis sativa*) Fibres by Chemo-mechanical Method and its Characterization. *Polymer Composites*. September 21, 2020; 41, 5257–5268 DOI: 10.1002/pc.25791, [Q1, I F = 5.20, SCI/SCIE]
 35. Mohammad Z. R. Khan, Sunil Kumar Srivastava, M. K. Gupta, A state-of-the-art review on particulate wood polymer composites: Processing, properties, and applications.

- Polymer Testing. 2020; 89: 106721. DOI: <https://doi.org/10.1016/j.polymertesting.2020.106721>. [Q1, I F = 5.10, SCI/SCIE]
36. Pankaj Kumar Gupta, M. K. Gupta. Mechanical and Microstructural Analysis of Al-Al₂O₃/B₄C Hybrid Composites. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications. August 05, 2020; 234(12), 1503-1514. DOI: 10.1177/1464420720942554 [Q2, I F = 2.40, SCI/SCIE]
 37. ParulSahu, M. K. Gupta. Lowering in water absorption capacity and mechanical degradation of sisal/epoxy composite by sodium bicarbonate treatment and PLA coating. Polymer Composites. 2019; 41(2): 668–681. DOI: 10.1002/pc.25397 [Q1, I F = 5.20, SCI/SCIE]
 38. M. K. Gupta. Investigations on jute fibre reinforced polyester composite: Effect of alkali treatment and PLA coating. Journal of Industrial Textiles. 2018; 49(7) 923–942, DOI: 10.1177/1528083718804203 [Q2, I F = 3.721, SCI/SCIE]
 39. ParulSahu, M. K. Gupta. A Review on the Properties of Natural Fibres and its Bio-composites: Effect of Alkali Treatment. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications. 2019; 234(1): 198–217. DOI: 10.1177/1464420719875163 [Q2, I F = 2.40, SCI/SCIE]
 40. M. K. Gupta, Rohit Singh. PLA coated sisal fibre reinforced polyester composite: water absorption, static and dynamic mechanical properties. Journal of Composite Materials. 2019; 53, 65-72. DOI: 10.1177/0021998318780227. [Q2, I F = 2.90, SCI/SCIE]
 41. Parul Sahu, M. K. Gupta. Enhancement in erosion wear resistance of sisal composites by ecofriendly treatment and coating. Materials Research Express. June 21, 2019; 6 (2019) 085348. DOI: <https://doi.org/10.1088/2053-1591/ab29b5> [Q2, I F = 2.30, SCI/SCIE]
 42. Mohammad Z.R. Khan, Sunil Kumar Srivastava, M. K. Gupta. Hybrid Wood Particulates Composites: Mechanical and Thermal Properties. Materials Research Express. August 21, 2019; 6(10): 105323. DOI: <https://doi.org/10.1088/2053-1591/ab3835>. [Q2, I F = 2.30, SCI/SCIE]
 43. Mohammad Z.R. Khan, Sunil Kumar Srivastava, M. K. Gupta. Water Absorption and its Effect on Mechanical Properties of Hybrid Wood Particulates Composites. Materials Research Express. 6 (2019) 105305. <https://doi.org/10.1088/2053-1591/ab34c3> [Q2, I F = 2.30, SCI/SCIE]
 44. Mohammad Z.R. Khan, Sunil Kumar Srivastava, M. K. Gupta. Investigations of Surface Micro Topologies and Crystalline Behaviour of Hybrid Wood Composites. Materials Research Express. August 7, 2019; 6(10): 105326. <https://doi.org/10.1088/2053-1591/ab39fb>. [Q2, I F = 2.30, SCI/SCIE]
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48. Mohammad Z.R. Khan, Sunil Kumar Srivastava, M. K. Gupta. Tensile and flexural properties of natural fibre reinforced polymer composites: A Review. Journal of Reinforced Plastics and Composites. 2018, 37(24) 1435–1455. DOI: 10.1177/0731684418799528. [Q1, I F = 3.710, SCI/SCIE]
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50. M. K. Gupta. Thermal and dynamic mechanical analysis of hybrid jute/sisal fibre reinforced epoxy composite. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications. 2018; 232(9): 743–748. DOI: 10.1177/1464420716646398. [Q2, I F = 2.40, SCI/SCIE]
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53. M. K. Gupta, R. K. Srivastava. Mechanical, thermal and dynamic mechanical analysis of jute fibre reinforced epoxy composite. Indian Journal of Fibre & Textile Research. 2017, 42, 64 -71. [Q3, I F = 0.825, SCI/SCIE]
54. M. K. Gupta, R. K. Srivastava. Mechanical properties of hybrid fibres-reinforced polymer composite: A Review. Polymer-Plastics Technology and Engineering. 2016, 55(6), 626–642. [Q2, I F = 2.439, SCI/SCIE]
55. M. K. Gupta, R. K. Srivastava. Properties of sisal fibre reinforced epoxy composite. Indian Journal of Fibre & Textile Research. 2016, 41, 235-241. [Q3, I F = 0.825, SCI/SCIE]
56. M. K. Gupta, R. K. Srivastava. Tribological and dynamic mechanical analysis of epoxy based hybrid sisal/jute composite. Indian Journal of Engineering & Materials Sciences. 2016, 23, 37-44. (Q3, I F = 0.881, SCI/SCIE]
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59. Jeevesh Kumar Prajapati, M. K. Gupta. Development of hybrid glass fibre/nano silica composite for sustainable product: mechanical, dynamic mechanical and optical properties. *Mater. Res. Express* 6 (2019) 1150c4. <https://doi.org/10.1088/2053-1591/ab4d16> [Q2, I F = 2.30, SCI/SCIE]
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61. Nitin Kumar Jain &M.K. Gupta. Dynamic mechanical properties of hybrid teak/shorea robusta wood reinforced epoxy composite. *Materials Today: Proceedings*. 2018; 5: 19893–19898. [Q2, Scopus].
62. Parul Sahu & M. K. Gupta. PLA coated sisal fibre reinforced polyester composite: Static and dynamic mechanical properties. *Materials Today: Proceedings*. 2018; 5:19799–19807. [Q2, Scopus].
63. Mohit Saxena & M. K. Gupta. Hybrid mango/shorearobusta wood reinforced epoxy composite: Crystalline behavior and dynamic mechanical analysis. *Materials Today: Proceedings*. 2018; 5: 19359–19366. [Q2, Scopus].
64. M.K. Gupta, Rohit Singh. Flexural and Dynamic Mechanical Analysis (DMA) of Polylactic Acid (PLA) Coated Sisal Fibre Reinforced Polyester Composite. *Materials Today: Proceedings*. 2018, 5, 6109-6114. [Q2, Scopus].
65. Parul Sahu & M. K. Gupta. Mechanical, thermal and morphological properties of sisal fibres. *IOP Conference Series-Materials Science and Engineering*. 2018, 455, 012014[Q3, Scopus].
66. Sunil Singh Rana & M.K. Gupta. Dynamic mechanical properties of hemp nanofibre reinforced epoxy composite. *IOP Conference Series-Materials Science and Engineering*. 2018, 455, 012013[Q3, Scopus].
67. M. K. Gupta. Water absorption and its effect on mechanical properties of sisal composite. *Journal of the Chinese Advanced Materials Society*. 2018,6:4, 561-572, DOI: 10.1080/22243682.2018.1522600. [Taylor & Francis].
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71. M. K. Gupta. Effect of frequencies on dynamic mechanical properties of hybrid jute/sisal fibre reinforced epoxy composite. *Advances in Materials and Processing Technologies*. 2017; 3 (4): 651–664. [Q2, I F = 2.90, Scopus]
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73. M.K. Gupta, R. K. Srivastava. Tensile and flexural properties of sisal fibre reinforced epoxy composite: A comparison between unidirectional and mat form of fibres. *Procedia Materials Science*. 2014; 5: 2434-2439. [Elsevier]
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77. Sunil Singh Rana, M.K. Gupta, R. K. Srivastava. Effect of variation in frequencies on dynamic mechanical properties of short sisal fibre reinforced epoxy composite. *Materials Today: Proceedings*. 2017; 4, 3387-3396. [Q2, Scopus].
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82. M. K. Gupta, Vipul Deep. Effect of stacking sequence on flexural and dynamic mechanical properties of hybrid sisal/glass polyester composite. *American Journal of Polymer Science & Engineering*. 2017, 5, 53-62.

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86. M. K. Gupta, R. K. Srivastava, Himanshu Bisaria. Potential of jute fibre reinforced polymer composites: A review. *International Journal of Fibre and Textile Research*. 2015, 5, 30-38.
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89. Avinash Kumar, Manoj Kumar Gupta, R. K. Srivastava, Harinder Singh. Mechanical properties of hybrid polymer composite using banana/sisal fibre. *International Journal of Engineering Research & Management Technology*. 2014, 1, 44-50.
90. Tanveer Alam, M. K. Gupta, R. K. Srivastava, Harinder Singh, Ajaya Bharti. Analysis of mechanical properties of sisal fibre reinforced polymer composite. *International Journal of Engineering Research & Management Technology*. 2014, 1, 77-81.
91. Avinash Kumar, M. K. Gupta, R. K. Srivastava. Viscoelastic properties and Fracture Toughness of Hybrid Polymer Composite using Banana/Sisal Fibre. *International Journal of Advanced Research in science and Engineering*. 2014, 3, 1-9.
92. Tanveer Alam, M. K. Gupta, R. K. Srivastava, Harinder Singh. Thermal characterization and Fracture Toughness of sisal fibre reinforced polymer composite. *International Journal of Scientific Engineering & Technology*. 2014, 3, 1071-1073.

Conferences [Total = 35, International conference = 27, National conference = 03 & Poster presentation = 05]

International Conferences (27)

1. **M.K. Gupta**, R. K. Srivastava. Tensile and flexural properties of sisal fibre reinforced epoxy composite: A comparison between unidirectional and mat form of fibres. *International Conference on Advances in Manufacturing and Materials Engineering (ICAMME)*, March 27-29, **2014**, NIT Surathkal.

2. **M.K. Gupta**, R. K. Srivastava. Effect of sisal fibre loading on dynamic mechanical analysis and water absorption behaviour of jute fibre epoxy composite. 4thInternational Conference on Materials Processing & Characterization (ICMPC), March 14-15, 2015, GRIET, Hyderabad.
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