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Article

Sustainable Brick Production Using Ceramic Waste and Coconut Fibers: Performance Prediction Using Machine Learning

Govardhan Naik, B., Nakkeeran, G., Roy, D., Kiran, G.U., Prasath Kumar, V.R.

*Journal of Structural Design and Construction Practice*, 2026

Article • *Open access*

Stability and bifurcation analysis of a fractional-order prey–predator model with ratio-dependent functional response

Alraddadi, I., Perumal, R., Ahmed, R., Khan, J., Lee, Y.

*Aims Mathematics*, 2026

Article

Multimodal AI framework for forecasting tree cover loss and carbon emissions in india: integrated time-series modeling, spatial volatility mapping, and explainable causal analysis

Bhowmik, P.N., Saini, K., Anand, P., Nunna, T.S.P.

*Mitigation and Adaptation Strategies for Global Change*, 2026

Article

Performance Optimization of Biopolymer in Material Extrusion Process Using Support Vector Regression and Grey Wolf Algorithm

Ozah, R., Sarma, D.

*Journal of Materials Engineering and Performance*, 2025

Article

Optimizing Agricultural Waste By-Products: A Machine Learning Approach for Sustainable Construction Practices

Anand, P., Singh, S.D., Bhowmik, P.N., Boya, V., Pandey, S.

*Circular Economy and Sustainability*, 2025

Article • *Open access*

Evaluation of net-zero materials in mortar bricks with predictive modelling using random forest and gradient boosting techniques

Kiran, G.U., Nakkeeran, G., Roy, D., ...Eze, V.H.U., Kuzmin, A.M.

*Discover Applied Sciences*, 2025

Article • *Open access*

Optimizing concrete mix proportions with zeolite, GGBS, and CDW: a data-driven approach integrating experimental analysis and machine learning models

Anand, P., Singh, S.D., Bhowmik, P.N., Kontoni, D.P.N.

*Engineering Research Express*, 2025

Conference Paper

Smart Aquaculture for Fish Counting and Weight Estimation using YOLOv5

Ganesan, R., Raghuram, C., Rajesh, K.S., ...Shanthi, S., Muthulekshmi, M.

*Proceedings of the 6th International Conference on Electronics and Sustainable Communication Systems  
Icesc 2025, 2025*

Conference Paper

Integrating Genomic Selection and Support Vector Machines to Improve Genetic Resistance in  
Crops

Balaji Damodhar, T.S., Vidhya, S., Thirumurugan, R., ...Nithya, N., Monisha, R.

*Proceedings of the 4th International Conference on Innovative Mechanisms for Industry Applications  
Icimia 2025, 2025*

Conference Paper

Forest Fire Prediction using Liquid Neural Networks

Bommalo, H., Ashok, D., Mounika, A., ...Karunamma, D., Kumar, E.S.

*2025 6th International Conference on Data Intelligence and Cognitive Informatics Icdici 2025, 2025*

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GREEN HORIZONS SUSTAINABLE PRACTICES IN DATA CENTRE NETWORKING FOR ENVIRONMENTAL CONSERVATION

Khandan, K.L., Murali Krishna, T., Swetha, S., ...Pati, H., Manoj Kumar, N.M.

*Journal of Environmental Protection and Ecology*, 2024

## Conference Paper

Wood Type Identification via Neural Networks and Spectral Analysis: An Advanced Algorithmic Solution

Rohith Bhat, C., Lakshmiramana, P., Vincy, R.F., ...Balaji, A., Rajesh Kanna, R.

*2023 International Conference on Data Science, Agents and Artificial Intelligence, ICDSAIAI 2023, 2023*

## Article

An energy-efficient cluster formation in wireless sensor network using grey wolf optimisation

Rajakumar, R., Dinesh, K., Vengattaraman, T.

*International Journal of Applied Management Science, 2021*

## Conference Paper

Peak flood estimation along southern coast: Kerala, India

Lokeshwari, M., Mendi, V., Reddy, N.A.

*Proceedings of the 9th International Conference on APAC 2017, 2018*

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