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Utilization of Cassava Peel Ash as a Partial Replacement of Precursor Material for the GGBS Based Geopolymer Concrete

Ganesh, A.C., Vijaya Kumar, M., Raju, H.P., Anitha, K., Prashath, J.R.

***International Journal of Pavement Research and Technology*, 2026**

Article

Machine learning for land use and land cover mapping in Google earth engine: A review of methods, applications, and challenges

Dinesh Kumar Reddy, Y., Roy, D., Nakkeeran, G., Reddy, N.G.

***Ecological Frontiers*, 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**

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Optimization of waste plastic fiber concrete with recycled coarse aggregate using RSM and ANN

Shinde, S.N., Christa, S., Grover, R.K., ...Nakkeeran, G., Alaneme, G.U.

***Scientific Reports*, 2025**

Article

A review of remote sensing and GIS applications in flood monitoring and management

Bhargavi, K., Roy, D., Nakkeeran, G., Reddy, N.G.

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Advanced prediction and optimization of VCR engine characteristics using RSM with DFA for sustainable biofuel derived from waste lemon Peel

Bhaskara Rao, T.S., Manimaran, R., Manivannan, C., Reddy, V.S.N., Mehar, K.

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Impact of biochar on strength, durability, and carbon sequestration in cement based materials

Kiran, G.U., Nakkeeran, G., Roy, D., Alaneme, G.U.

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Mechanical properties and machine learning analysis of concrete incorporating waste glass as coarse aggregate

Govardhan Naik, B.G., Nakkeeran, G., Roy, D., ...Alaneme, G.U., Bakare, M.S.

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Optimization of cashew nut shell biodiesel production with industrial waste catalysts and butanol additives for ecofriendly CRDI engine applications

Senthilkumar, D., Giri, J.P., Bhaskara Rao, T.S., Kanan, M.A., Manimaran, R.

*Scientific Reports*, 2025

Article

Improved ultraviolet photodetection and oxygen gas sensing performance using CeO<sub>2</sub> rare-earth oxide thin films deposited on GaN

Nanda Kumar Reddy, N.K., Rahim Bakash, K., Saputra, R., ...Minnam Reddy, V., Kushvaha, S.S.

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Transforming Plastic Waste into Sustainable Roads: Enhancing Bituminous Mixes With High and Low-Density Polymers

Singh, S.D., Anand, P., Yadav, S.K., Nishant, n., Vora, T.P.

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Recent advances in the development of various electrocatalysts for CO<sub>2</sub> reduction reactions: A review

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*Journal of Alloys and Compounds*, 2025

Article

Enhancing Concrete Sustainability: Synergistic Effects of Individual and Dual Treatments on Recycled Coarse Aggregate from Construction and Demolition Waste

Anand, P., Sinha, A.K., Rajhans, P., Bhowmik, P.N.

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Exploring Financial Innovation Through Cryptocurrency: A Global Systematic and Bibliometric Analysis

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Rebecca, B., Sandhya, A., Pokkuluri, K.S., ...Khasimbée, S., Krishna, B.M.

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Drying kinetics, mathematical modelling and colour analysis of an indirect solar dryer with latent heat storage unit for cucumber drying

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### Evaluation of SCBA-replaced cement for carbon credits and reduction in CO2 emissions

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### Remarkable Reduction of Carbon Dioxide Emission from Crumb Rubber Modified Bitumen by Introducing Hydroxyapatite Encapsulated Magnesium Ferrite (HAP/MgFe<sub>2</sub>O<sub>4</sub>)

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Sailaja, M., Medapati, P.K., Jyothi, B.S., ...Manjula, S., Divya Priya, D.D.

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Exploring Different Bypass Schemes for Photovoltaic Modules in Partial Shading Conditions: A Comprehensive Analysis

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An Attention-based Rainfall Prediction System using LSTM Model and Convolutional Block Module

Kiran, P., Vara, J.J., Kama, S., ...Karunamma, D., Vivek, K.

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