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Domaines d'intérêts scientifiques: Composite Material, Reinforced, Concrete, Civil Engineering, Materials, Reinforced mortar, Natural Fibres, Biocomposites, Drilling, Material Characterization, Mechanical Properties, Advanced Materials, Polymers, Epoxy Resins, Optimization.

Indiquer les publications réalisées durant les cinq (05) dernières années :

Assessment and prediction of water quality indices by machine learning-genetic algorithm and response surface methodology.
<https://doi.org/10.1007/s40808-024-02079-z>

Performance analysis of biochar and W. Robusta palm waste reinforced green mortar using response surface methodology and machine learning methods.
<https://doi.org/10.1016/j.conbuildmat.2024.137214>

Effects of incorporating cellulose fibers from Yucca treculeana L. on the thermal characteristics of green composites based on high-density poly-ethylene: An eco-friendly material for cleaner production.
<https://doi.org/10.1016/j.jmrt.2024.06.089>

ANN and RSM Prediction of Water Uptake of Recycled HDPE Biocomposite Reinforced with Treated Palm Waste W. filifera.
<https://doi.org/10.1080/15440478.2024.2356697>

Prediction of purified water quality in industrial hydrocarbon wastewater treatment using an artificial

neural network and response surface methodology.
<https://doi.org/10.1016/j.jwpe.2023.104757>

Mechanical properties and statistical analysis of Syagrus Romanzoffiana palm cellulose fibers.
<https://doi.org/10.1177/00219983241231833>

Weibull Statistic and Artificial Neural Network Analysis of the Mechanical Performances of Fibers from the Flower Agave Plant for Eco-Friendly Green Composites. <https://doi.org/10.1080/15440478.2024.2305228>

Environmentally mortar development using Washingtonia/biochar waste hybrid: mechanical and thermal properties. <https://doi.org/10.1007/s13399-023-04743-3>

Effect of Number of Tests on the Mechanical Characteristics of Agave sisalana Yarns for Composites Structures: Statistical Approach.
<https://doi.org/10.3390/polym15132885>

Optimization of drilling process parameters of sisal/cork-reinforced epoxy biosandwich structure by multi-objective RSM and hybrid ANN-GA models.
<https://doi.org/10.1007/s00170-023-11791-6>

Building Material in Circular Economy: The Suitability of Wood Waste in Bio-concrete Development.
https://doi.org/10.1007/978-981-99-1905-5_9

Effects of alkaline treatment of Washingtonia mesh waste on the mechanical and physical properties of bio-mortar: experimental and prediction models.
<https://doi.org/10.1007/s13399-023-04221-w>

Water Uptake of HDPE Reinforced with Washingtonia Fibre Biocomposites: Mathematical Modelling using Artificial Neural Network, Response Surface Methodology and Genetic Algorithm.
<https://doi.org/10.1080/2374068X.2023.2198828>

Optimization of flexural properties and thermal conductivity of Washingtonia plant biomass waste biochar reinforced bio-mortar.
<https://doi.org/10.1016/j.jmrt.2023.02.009>

Improving the Mechanical Performance of Biocomposite Plaster/ Washingtonia filifera: Optimization Comparison Between ANN and RSM Approaches. <https://doi.org/10.1080/15440478.2023.2170945>

Effect of jute fiber length on drilling performance of biocomposites: optimization comparison between

RSM, ANN, and genetic algorithm.
<https://doi.org/10.1007/s00170-022-10801-3>

Response Surface Methodology Optimization of Palm Rachis Biochar Content and Temperature Effects on Predicting Bio-Mortar Compressive Strength, Porosity and Thermal Conductivity.
<https://doi.org/10.1080/15440478.2022.2162184>

Optimization of Palm Rachis Biochar Waste Content and Temperature Effects on Predicting Bio-Mortar : ANN and RSM Modelling.
<https://doi.org/10.1080/15440478.2022.2151547>

Effect of Water Absorption on the Behavior of Jute and Sisal Fiber Biocomposites at Different Lengths: ANN and RSM Modeling.
<https://doi.org/10.1080/15440478.2022.2140326>

Modeling Moisture Absorption of Flax/Sisal Reinforced Hybrid Biocomposites Using Fick's and ANN Methods.
<https://doi.org/10.1080/15440478.2022.2140322>

Drilling performance prediction of HDPE/Washingtonia fiber biocomposite using RSM, ANN, and GA optimization.
<https://doi.org/10.1007/s00170-022-10248-6>

Mechanical Properties of Natural Cellulosic Yucca treculeana L. Fiber for Biocomposites Applications: Statistical Analysis.
<https://doi.org/10.1080/15440478.2022.2128505>

Water Absorption Behavior of Jute Fibers Reinforced HDPE Biocomposites: Prediction Using RSM and ANN Modeling. <https://doi.org/10.1080/15440478.2022.2114976>

Delamination in drilling of jute/cork-reinforced polymer biosandwich materials: optimization by response surface methodology and genetic algorithm.
<https://doi.org/10.1007/s00170-022-10001-z>

Drilling performance of short Washingtonia filifera fiber-reinforced epoxy biocomposites: RSM modelling.
<https://doi.org/10.1007/s00170-022-09849-y>

Tensile Behavior and Statistical Analysis of Washingtonia Filifera Fibers as Potential Reinforcement for Industrial Polymer Biocomposites.
<https://doi.org/10.1080/15440478.2022.2069189>

Systematic Review on Reinforcing Mortars with Natural Fibers: Challenges of Environment-Friendly Option. <https://doi.org/10.1080/15440478.2022.2060408>

Comparative study of flexural properties prediction of Washingtonia filifera rachis biochar bio-mortar by ANN and RSM models. <https://doi.org/10.1016/j.conbuildmat.2021.125985>

Drilling of a bidirectional jute fibre and cork-reinforced polymer biosandwich structure: ANN and RSM approaches for modelling and optimization. <https://doi.org/10.1007/s00170-021-07679-y>.

Experimental investigation and optimization of delamination factors in the drilling of jute fiber-reinforced polymer biocomposites with multiple estimators. <https://doi.org/10.1007/s00170-021-07628-9>.

The effect of alkaline treatment on mechanical performance of natural fibers-reinforced plaster: Optimization using RSM. <https://doi.org/10.1080/15440478.2020.1724236>.

The effect of alkaline treatment on mechanical performance of natural fibers-reinforced plaster: Part II optimization comparison between ANN and RSM statistics. <https://doi.org/10.1080/15440478.2021.1964129>.

The Effect of Geometry on the Flexural Properties of Cellular Structures Reinforced with Natural Fibres: Statistical Approach. <https://doi.org/10.1080/15440478.2021.1964134>.

Improving the mechanical performance of biocomposite plaster/ Washingtonian filifira fibres using the RSM method. <https://doi.org/10.1016/j.jobbe.2020.101840>.

Mechanical characterization and optimization of delamination factor in drilling bidirectional jute fibre-reinforced polymer biocomposites. <https://doi.org/10.1007/s00170-020-06217-6>.

Behavior of pre-cracked deep beams with composite materials repairs. DOI: <https://doi.org/10.12989/sem.2017.63.5.575>.

Statistical Analysis of 3-Point Bending Properties of Polymer Concretes Made From Marble Powder Waste,

Sand Grains, and Polyester Resin. [DOI
10.1007/s11029-018-9703-2.](https://doi.org/10.1007/s11029-018-9703-2)