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Advanced Thermodynamic Analysis of Nano-Fluid Heat Transfer Enhancement in Engine Cooling Systems

Liang Chen, Saida El Masri, Juan Carlos Hernández

Keywords: thermodynamics, nano-fluids, heat transfer, engine cooling, thermal conductivity, automotive engineering

2.

Exploring Cross-Cultural Variability in Cognitive Behavioral Therapy Outcomes: A Multinational Study

Carlos Mendoza, Ananya Patel, Fatima Al-Masri

Keywords: cognitive behavioral therapy, cross-cultural psychology, therapy outcomes, mental health, cultural adaptation, clinical psychology

3.

Integrating Indigenous Knowledge and Modern Conservation Strategies to Preserve Biodiversity Hotspots

Diego Ramírez, Akira Tanaka, Mariam Al-Masri

Keywords: biodiversity, conservation strategies, indigenous knowledge, ecological research, traditional ecological knowledge, participatory approach, biodiversity hotspots

4.

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Katrin Müller, Sahar Al-Masri, Farhad Rezaei

Keywords: higher education, pedagogical innovation, cultural adaptability, blended learning, interactive technologies, educational effectiveness

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Dulguun Erdenetsetseg, Fatima Al-Mansouri, Carlos Rivera

Keywords: consumer behavior, microeconomics, emerging markets, decision-making, market accessibility, cultural influences, economic incentives

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Exploring the Role of Calcium Signaling in Drought Stress Response of *Arabidopsis thaliana*

Sven Järvinen, Alia Khoury, Ajith Kumara

Keywords: calcium signaling, drought stress, Arabidopsis thaliana, calcium-dependent protein kinases, abscisic acid, genetic manipulation

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Fatemeh Rahimi, Juan Carlos Ríos, Arun Kumar

Keywords: biochar, soil fertility, crop yield, arid regions, soil amendments, nutrient retention

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Optimization Techniques for Nonlinear Systems in Renewable Energy Forecasting Models

Carlos Dominguez, Leila Farhat, Hiroshi Nakamura

Keywords: renewable energy, optimization techniques, nonlinear systems, forecasting models, gradient descent, genetic algorithms