

Research Article

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## Impact of Socioeconomic Activities on Biodiversity in Gashaka Local Government Area, Taraba State, Nigeria

Published On: April 19, 2025 | Pages: 019 - 026

Author(s): Hikon Nafinji\* and Umoru Jafaru

Flora biodiversity plays a critical role in sustaining ecosystems, yet anthropogenic activities continue to threaten its existence. This study examines the effects of socioeconomic activities such as logging, farming, and hunting on flora biodiversity in Gashaka Local Government Area of Taraba State. The study employed a combination of descriptive statistics, time-ser ...

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## Energy Retainment from Crystalline Elastomer (CrEI) and Lead Zirconate Titanate (PbZrT)

Published On: April 11, 2025 | Pages: 006 - 014

Author(s): Delia Teresa Sponza\*

Pyroelectric materials that can generate electric charges when subjected to temperature changes dependent on renewable energy . Conventional pyroelectric energy harvesters suffer from low output. In this study, a nanocomposite was generated with crystalline elastomer (CrEI) and pyroelectric lead zirconate titanate (PbZrT) nanoparticles. As a result, a heat harvesting ...

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## Trends in the Tourism Sector of Kyrgyzstan and Problems of Nature Conservation in its Mid-mountain Zone

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Author(s): ET Toktoraliev, DA Beyshenkulova, BU Abylmeyizova, TK Toktokozhoeva, TM Choduraev

The article is devoted to the study of the dynamics of the tourist flow in the territory of Kyrgyzstan, amid socio-political and economic uncertainty, and the study of preventive measures to preserve resources. Its relevance related to the pace of development of this industry in the territory under consideration, which depends on its geographical location, features o ...

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### Short Communication

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## Thermodynamic Analysis of Ca-Mg-Al-based Refractory Resistance to $\text{Na}_2\text{CO}_3$ Corrosion

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Author(s): Zheng Quanjun, Zhang Qiushi, Dong Changqing\*, Hu Xiaoying and WU Huiyu

Papermaking black liquor contains  $\text{Na}_2\text{CO}_3$ , which can corrode refractory materials and cause economic losses. It is considered to introduce CaO and MgO alkaline oxides into  $\text{Al}_2\text{O}_3$  to prepare calcium magnesium aluminum composite oxides as a substitute for  $\text{Al}_2\text{O}_3$  as corrosion shell materials. Using the FactSage material balance module, the optimal ratio of CaO-MgO- $\text{Al}_2\text{O}_3$  was ...

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### Mini Review

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## The Power of Liquid Zeolite: A Dual-Purpose Innovation for Health and Oil & Gas Safety Applications

Published On: April 15, 2025 | Pages: 015 - 018

Author(s): Vefa Dervis\*

A naturally occurring mineral with a distinctive crystalline structure, zeolite has important uses in both industrial and medical settings. Its main applications in the oil and gas sector are gas filtration, wastewater treatment, oil spill cleaning, and refining process catalysis. Zeolite is useful for resource optimization and environmental protection because of its ...

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