

In this issue

Research Article

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Carbon capture, carbon storage and utilization

Published On: May 09, 2024 | Pages: 035 - 038

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This aspect of Energy law prompts the Department of Energy to initiate a series of research and development endeavors aimed at assessing environmental suitability and safety, capacity. Additionally, it explores proposed geological storage sites. High-purity carbon dioxide finds primary application in the electronics sector, medical research, and clinical diagnostics. ...

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Solid waste management challenges and solutions: The case of the city of Khouribga (Morocco)

Published On: March 02, 2024 | Pages: 011 - 020

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In Morocco, like in many developing countries, the management of solid waste, especially household solid waste, is a major concern. It is estimated that each person generates an average of 0.67 kilograms of urban waste per day, while in rural areas, this figure is 0.3 kilograms per day. The collection of urban solid waste is regular and almost daily, reaching approxim ...

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A Kano regression analysis of consumer satisfaction in decision-making for old house renovation

Published On: February 03, 2024 | Pages: 005 - 010

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This study investigates the psychological and emotional factors influencing consumers' decision-making in old house renovation, focusing on how these factors impact satisfaction with the renovation outcomes. Employing Kano regression analysis, the study identifies charm quality attributes associated with satisfaction, such as the preservation of historical value, emot ...

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Short Communication

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Use of water resources and sustainability with concepts, definitions and examples

Published On: April 24, 2024 | Pages: 021 - 025

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Water is a vital resource for all living things (people, ecosystems, economic development, energy production, national security). Coordination and harmony in spatial and intersectoral planning and decision-making processes can be achieved through the rational and sustainable use of water resources. Protection and sustainable use of water resources is extremely importa ...

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Mini Review

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Intelligent complex for modeling safety movement of a multi-agent group of marine robots in uncertain environments

Published On: May 04, 2024 | Pages: 026 - 034

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Intensive development today is observed in the areas of data processing and analysis, as well as in the management of robotic systems; Artificial Intelligence (AI) systems are increasingly used. As the complexity of the tasks facing the Marine

Robotic Complex (MRC) increases, the need for the use of AI technologies becomes clear. These technologies provide safe move...

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[DOI: 10.17352/2455-488X.000080](#)

Case Study

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Correction of the thermal power calculation in the lightweight floor heating based on NT VVS127:2001 standard

Published On: January 24, 2024 | Pages: 001 - 004

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There are many possibilities for determining the thermal power (thermal output) of underfloor heating systems. These may be mathematical, experimental, and numerical methods. Some of them are described in standards, manufacturers' guides (e.g. charts or tables based on experimental research), as well as programs with numerical calculations. This article concerns the i ...

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