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Title: Bearing capacity of photovoltaic support micro piles

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Therefore, this paper aims to investigate the application of bionics principles to propose a novel type of photovoltaic bracket pile foundation designed to meet diverse bearing capacity ...

In this paper, concrete micro-piles were used to improve the bearing capacity of the soil which is supporting the shallow foundation by using groups of (4; 6 and 9)bored short ...

Study on the bearing capacity optimization and performance of photovoltaic support in desert sand and gravel area based on bionics

This study has comprehensively investigated the bearing characteristics of three types of photovoltaic support piles, serpentine piles, square piles, and circular piles, in desert gravel areas.

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As photovoltaic (PV) installations expand into diverse terrains, engineers face mounting pressure to optimize single pile foundations against complex soil-structure interactions.

Utilizing experimental data, numerical simulation technology was employed to comprehensively investigate the pullout resistance, compressive resistance, and horizontal bearing ...

This study will contribute to a better understanding of the failure mechanism and bearing capacity of micro screw anchor piles. The site information and test results are promising to provide ...

This study aims to examine the factors influencing the bearing characteristics of the serpentine piles.

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