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## **Bibliometric analysis in scientific research on unsaturated soils**

In recent decades, the importance of addressing and understanding the behavior of unsaturated soils has increased due to the challenges of designing safe and cost-effective geotechnical structures based on the axioms of this scientific field. Therefore, this study conducts a bibliometric analysis of research conducted in the field of unsaturated soils in geotechnical engineering. For this purpose, the Vosviewer tool was used to analyze the content of relevant technical literature. The input information and data analysis comprised 2478 articles collected from the Web of Science database. The results show that the highest number of publications occurred in 2022 with 230 articles, accounting for 8.37% of the total dataset. Keyword analysis indicates that terms such as “unsaturated soils” and “model” have the highest frequency, highlighting the complexity of developing devices and testing methods in this area. This study demonstrates significant advancements in methodology and increased attention to unsaturated soil research.

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