

Design of intelligent energy storage toothbrush system

What are AI-based smart toothbrushes?

Some of the AI-based smart toothbrushes for checking the brushing position, technique, and plaque removal efficacy include the Oral-B iO, Plaqless Pro smart toothbrush, and 'Ara toothbrush'. The Ara toothbrush is the first AI toothbrush manufactured by Kolibre in 2017 [24, 25, 26, 27, 28, 29, 30, 31].

Can AI-based smart toothbrushes improve oral hygiene & plaque control?

We included all the studies evaluating the use of any smart toothbrush, AI, or robotics for oral hygiene, plaque control, and patient education. AI-based smart toothbrushes helped patients to brush effectively by indicating the amount of pressure and the time taken for brushing, along with providing feedback on their brushing performance.

How a smart toothbrush works?

The AR-based training incorporated in the toothbrush can identify the area where plaque is still present via an image delivered to a smartphone. Some of the AI-based smart toothbrushes for checking the brushing position, technique, and plaque removal efficacy include the Oral-B iO, Plaqless Pro smart toothbrush, and 'Ara toothbrush'.

How can AI-based smart toothbrushes help patients brush effectively?

AI-based smart toothbrushes helped patients to brush effectively by indicating the amount of pressure and the time taken for brushing, along with providing feedback on their brushing performance. Many microrobots can even recognize and automatically remove biofilm.

This systematic process enabled a comprehensive and critical review on state-of-the-art applications of artificial intelligence in thermal energy storage system design and optimization.

Proper and effective toothbrushing technique is crucial for maintaining oral health. However, there are often limited opportunities for individuals to receive specific training in ...

1 Introduction Intelligent Toothbrush systems, or, as they are commonly called, Smart Tooth-brushes (ST) represent a novel technology in the Cyber Physical Systems context for human ...

This system also has the potential to be employed in a variety of upcoming healthcare applications because it uses popular wrist-worn devices to achieve accurate and energy-efficient ...

Abstract: This paper mainly introduces the simulation and Simulation of the processing effect of the new electric intelligent toothbrush terminal based on ENBF156 chip. The system can ...

Design and research of Red Boat Park intelligent energy A system architecture is designed to integrate massive data from the power side, grid side, load side, and energy storage side, utilizing IoT data ...

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We performed a literature search using different databases using the following keywords: "Artificial intelligence or machine learning or robots or robotics" AND "Toothbrush OR Smart ...

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Design and simulation studies of battery-supercapacitor hybrid energy storage system for improved performances of traction system ... To ensure a continuous power supply to the load while using an ...

The smart technology ensures that every second of brushing is utilized to its fullest potential, reducing overall brushing time while increasing effectiveness. The integration of a toothbrush connected to ...

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