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Showcasing research from Professor Seung Hwan Ko's laboratory, Department of Mechanical Engineering, Seoul National University, Seoul, Korea.

Tattoo electrodes in bioelectronics: a pathway to next-generation wearable systems

We present a comprehensive review of tattoo-based electronics, emphasizing recent progress in fabrication strategies, materials, and applications. Tattoo electronics enable ultrathin, skin-conformal platforms with unique advantages over conventional wearable electronics. We highlight key challenges, including durability, biodegradability, multifunctionality, and system-level integration, and discuss strategies to overcome them. This work aims to guide future research toward autonomous, versatile tattoo electronics for next-generation bioelectronic systems.

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As featured in:



See Jinwoo Lee and Seung Hwan Ko, *Nanoscale Horiz.*, 2025, **10**, 1501.