

Simultaneously Achieving Ultra-Stretchability and Biocompatibility in Electromagnetic Interference Shielding Materials Through a Biomimetic Strategy and MXene Enhancement

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To enable applications in stretchable electronics, soft robotics, and bioelectronics, electromagnetic interference (EMI) shielding materials should combine high stretchability and biocompatibility long-standing challenges in the field. Herein, EMI shielding materials are presented with excellent shielding effectiveness (86.6 dB, shield \approx 99.9999997% incident electromagnetic waves), ultra-stretchability (2000%–4000%), and biocompatibility. This is achieved through two key steps: first, substantially enhancing matrix stretchability using ultra-stretchable conductive liquid metal microdroplets, via a bio-inspired “fluidic core-chain interface-gel matrix” (FCCIG) strategy; second, activating EMI shielding by incorporating minimal but indispensable MXene (0.033–0.21 wt.%) to create a percolation network with minimal stretchability loss. Furthermore, the EMI shielding materials demonstrate superior multifunctional capabilities, including motion detection, temperature sensing, and antibacterial properties, alongside crucial fabrication attributes qualities rarely, if ever, achieved in a single EMI shielding material. These findings underscore the significant potential of this approach in advancing EMI shielding materials for stretchable biomedical electronics.

1. Introduction

With the rapid advancement of the Internet of Things (IoT) and 5G/6G wireless communication technologies enhancing daily

life, EMI has become an increasingly critical issue. EMI can lead to signal crosstalk, signal loss, and device malfunctions, compromising device robustness and longevity. Additionally, electromagnetic radiation can adversely affect human health and the environment.^[1–3] Addressing this challenge requires the development of effective EMI shielding materials.^[4–6] For applications in stretchable and wearable electronics,^[7] soft robotics,^[8] electronic skins,^[9] and bioelectronics,^[10] and hybrid uses such as biomedical soft robotics^[11,12] and stretchable bioelectronics,^[13] EMI shielding materials need to be both ultra-stretchable^[14–17] and biocompatible.^[18–20]

However, to date, EMI shielding materials that combine ultra-stretchability and biocompatibility have yet to be developed, largely due to conflicting design requirements. Most existing EMI shielding materials, primarily composed of conductive substances, such as metals (including liquid metals),^[21,22] graphene,^[23–25]

carbon nanotubes,^[26] and more recently, MXene,^[1,27–30] generally exhibit limited stretchability, typically less than 10%. While compositing them with elastomers can enhance stretchability,^[31,32,33] the resulting EMI shielding materials often achieve only moderate stretchability, typically a few hundred percent—still falling short of being considered truly ultra-stretchable. This is because the incorporating these conductive fillers into elastomers often significantly compromises their stretchability.^[34–37] For example, incorporating 5 vol% Ag nanowires into a polyacrylamide–alginate (PAM/SA) hydrogel decreases its stretchability from 1000% to just 250%.^[38] To our knowledge, the highest reported stretchability for biocompatible EMI shielding materials appears to be limited to \approx 150%,^[39,40] which remains inadequate for achieving the ultra-stretchability necessary for practical applications. Furthermore, the biocompatibility of current EMI shielding materials has seldom been explored, presenting another major challenge for their application in stretchable and biomedical electronics.

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