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Special Collection: Advances in Flexible and Soft Electronics

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Electronic devices have rapidly evolved into highly flexible, curvilinear formats that enable a new range of wearable applications. Compared with rigid electronic systems limited to planar configurations, soft electronic system designs can be stretched, compressed, bent, and deformed into arbitrary shapes without electrical or mechanical failure in circuits. Therefore, flexible electronic systems have attracted attention for the development of emerging applications in new areas, such as technologies in internet of things (IoT), electronic textile, healthcare, environmental monitoring, displays and human-machine interactivity, conversion and storage of energy, communication systems, and wireless networks.

This article collection illustrates recent progress achieved in the field of soft electronics through research studies about fabrication and integration of different devices targeting various modern applications. We believe that these few examples will capture the interest of readers and will convince them about their appealing future potential.