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Paper-based WS₂ photodetectors fabricated by all-dry techniques

Francesco Pieri^{✉*} and Gianluca Fiori^{✉*}

A recent application of a simple, all-dry, abrasive transfer of 2D materials on paper demonstrates the potential of two-dimensional tungsten disulfide (WS₂) as the sensitive material of a flexible photoconductive detector. The devices show really good responsivity over a bandwidth spanning from near infrared to ultraviolet and could open new avenues towards disposable optoelectronics systems.

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In the last decades, several applications based on the pervasiveness of inexpensive, versatile, environmentally friendly electronic devices have been envisioned, ranging from mobile healthcare to entertainment, to wearable systems (body trackers, smart textiles, etc.), to countless others. These applications will be based on the convergence of several new technologies, such as flexible substrates and new versatile high-performance materials. Among the former, paper is an extremely appealing choice, because of its biodegradability and negligible cost, allowing the development of systems, which can have a reduced environmental impact at the end of their life cycle^{1,2}. From the technological point of view, the main challenges concerned with device fabrication on paper are related to the high surface roughness, the limited thermal budget (around 120 °C) and the poor stability (especially with respect to humidity), which requires purposely tailored fabrication techniques. 2D materials can represent an enabling technology for paper-based electronics and optoelectronics systems, due to their outstanding properties for apparently any class of applications, and naturally suited for flexible applications³⁻⁷. However, integration of 2D materials on paper sub-

strates presents important challenges that have not been yet satisfactorily addressed. The most common transfer techniques of 2D materials on flexible substrates, such as liquid-assisted layer transfer or printing, requires exposure of the paper to various solvents and/or drying steps, both of which quickly degrade the substrate: for this reason, dry transfer techniques are of great interest^{8,9}.

Within this context, researchers led by Castellanos-Gomez and Xie proposed an all-dry, inexpensive fabrication method based on abrasion of WS₂ (tungsten disulfide) on paper to fabricate photoconductive detectors covering a bandwidth from near infrared to ultraviolet¹⁰. Their maximum responsivity (a measure of the conversion efficiency of the input light to the output current) is significantly higher than those of similar devices in the literature. The main drawback is that the devices are negatively impacted by exposure to ambient oxygen, suggesting the need of an encapsulating layer to improve their performance.

The fabrication process is remarkable in its use of readily available materials and simple and effective techniques, which has been previously developed by Castellanos-Gomez's group¹¹⁻¹³. Specifically, a cotton swab is

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Patrick Vollmar



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