

## NEWSLETTER

### HI-TECH & INNOVATION

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#### **Young innovators drive China's carbon fiber breakthrough**

Jilin Chemical Fiber Group and its subsidiary Jilin Carbon Valley Carbon Fiber Co., Ltd. achieved a breakthrough in large-scale 35K carbon fiber production, supporting offshore wind turbine blades. The ultra-light material is seven to nine times stronger than steel. China's domestically developed 35K carbon fiber is now being widely supplied to major wind turbine manufacturers nationwide. **(People's Daily)**

#### **Brain-computer interface technology enables paralyzed art teacher to draw again**

A paralyzed art teacher in Nanchang regained the ability to write and draw using brain-computer interface (BCI) technology developed by NeuroXess Technology. The implanted wireless device responds within 0.05 seconds, enabling the patient to control a hand exoskeleton. China is accelerating BCI development, targeting key technological breakthroughs by 2027. **(Xinhua)**

#### **Intelligent traffic management robots deployed in Hangzhou**

Hangzhou has deployed 15 intelligent traffic management robots at major intersections in the West Lake scenic area and downtown business districts. The robots assist with directing traffic, guiding tourists, and discouraging pedestrians and cyclists from violating traffic rules, highlighting the city's push to integrate AI and robotics into urban traffic management. **(Xinhua)**

#### **New Chinese battery offers fresh hope for hydrogen storage**

Chinese researchers have developed a gas-solid hydride ion battery that may improve hydrogen storage. It uses magnesium and hydrogen gas electrodes to store electricity and hydrogen simultaneously. It operates from minus 20 to 90 degrees Celsius, with 1,526 mAh/g capacity and over 70 percent retention after 60 cycles. in initial laboratory experiments results. **(Xinhua)**

#### **Unitree secures orders after sensational debut of manned mecha**

Unitree Robotics received immediate orders after unveiling its GD01 manned mecha robot, a 500-kilogram transport device capable of switching between bipedal and quadrupedal movement. The launch highlights China's fast-growing robotics industry, where humanoid robot shipments and commercial applications are accelerating amid strong national support for AI and advanced manufacturing. **(Xinhua)**