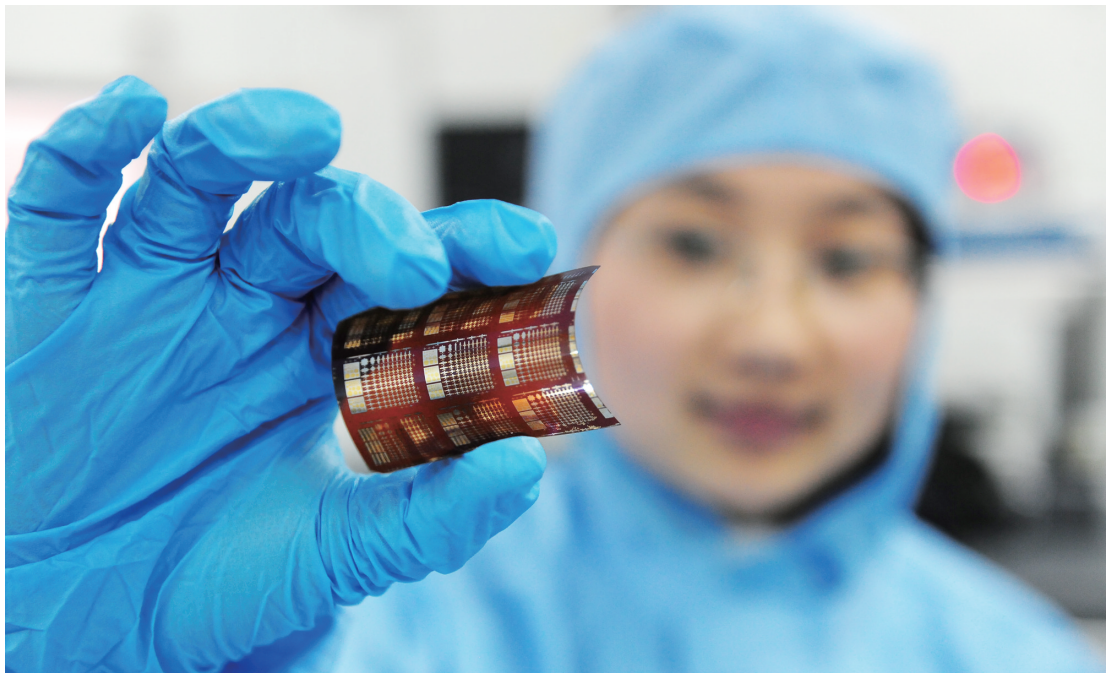
Foldable Display Likely Comes True

By Zong He & Liu Chang



Transparent bendable cell phones, transparent foldable TV and even car windows that can display news, stock market and weather information…These fantasy scenarios that exist only in fiction movies are likely to come true in near future with continuous breakthroughs achieved in the technology of organic thin-film transistor (OTFT).

On February 10, Fudan University announced that the research team headed by Qiu Zhijun and Liu Ran in the School of Information Science and Technology has made new breakthrough in discovering OTFT function stability mechanism and put forward a unified theoretical model for interaction between water oxygen electrochemical reaction and organic thin-film charge carriers. The achievement is likely to speed up large-scale application in the area of flexible electronics. The achievement has been published by "Nature--Communications", an internationally authoritative academic magazine.

According to Qiu Zhijun, IC-based information technology has made rapid development in the past more than half a century and caused profound transformation in people's work and life styles. With the dimensions of semiconductors approaching quantum limits, traditional silicon IC technology may reach its end in the coming 10 to 15 years. Moore's Law that has been supporting the development of IC for more than half a century is reaching its end as well. In the post-Moore era, information technology has to make new fundamental breakthroughs and development. It is the general trend to establish the Internet of Things (IOT).

Compared with traditional electronics, flexible electronic technology is very flexible and can be printed on the surface of any materials in large scale so as to cut the production cost significantly. Additionally, the processing equipment is simple, which means the investment at the early phase is low. The process requires only low temperature and simple techniques, generating no pollution to the environment. These numerous advantages has won flexible OTFT and related IC the favor of scientific researchers.

Research in the past 30 years didn't solve the problems such as insufficient current drive capacity, low relocation rate, poor reliability and short life span, which blocked the large-scale application of flexible OTFT.

Since 2008, the team headed by Qiu Zhijun and Liu Ran has joined efforts with Uppsala University and Royal Institute of Technology in Sweden to conduct a series of research on OTFT, hoping to essentially solve the lingering problems of operation speed and performance stability. Their research achievements have reached applicable magnitude recently.

In the application areas without so high requirement about the chip performance but flexible application in large scale, such as pad display and drive, medical imaging, wearing gear and lighting, OTFT has demonstrated broad prospects for application.

Fudan University and Royal Institute of Technology have developed a flexible wearable medical device called Bio-Patch which can be stuck to the skin like Band-it to measure people's ECG and body temperature in real time. With IOT infrastructure becoming mature, more and more wearable intelligent medical devices will come to the life of ordinary people, bringing in significant evolution to people's life style and healthcare.

Dahushan Lu No.1 Primary School Becomes IES

By Liu Zhuyi

The list of China's fourth batch of green flag honored schools has been revealed. Dahushan Lu No.1 Primary School is the first school that has won such a title in Yangpu.

To provide broader development space and demonstration stage for China's green schools and push China's school environment and sustainable education to the next level, the Propaganda and Education Center affiliated to the Ministry of Environmental Protection officially launched the project of construction of internationally ecological schools in China in June 2009. Schools that meet international ecological school standards and related requirements will be granted with the honor of the green flag of internationally ecological schools. According to the principal of Yangpu District Youth Science Station, Yangpu started to participate in the project since 2011. Four green schools of the district and city level have participated in the training for this project and obtained the qualification for application.

What is special for the education in ecological schools? The reporter paid a site visit to Dahushan Lu No.1 Primary School. In this chilly winter, cedars and meadows of the school are still green to decorate the vitality of the campus. Many lanterns made from waste papers are hanging in the lobby of the Teaching Building. According to the principal of the school, the concept of green and environmental protection has not only been integrated into the teaching but the daily life of the school.

Since the day when it took the initiative to build itself into an internationally ecological school, Dahushan Lu No.1 Primary School has been rigidly following the "Seven Steps for Construction of an Ecological School" and carried out the planning and study of two theme events at school, including green traffic and trash to treasure.

The first step was to set up Ecological School Committee; the second was to carry out environmental appraisal; the third was to work out the action plan; the fourth was to monitor and assessment; the fifth was to build connection with curriculum; the sixth was social promotion and participation; the seventh was ecological regulations.

The school hopes that the students are not only able to see green but root the seed of green in their hearts. The Internationally Ecological Committee of the school organized environmental ambassadors to investigate pollutants and greenhouse gas emission around them. The school also teaches students to use carbon emission calculators and distributes family carbon emission questionnaires. The investigation and questionnaire results were the basis for the event of "I am the Green Ambassador." The committee called on all students to make environmental protection bags with waste clothes, which would recycle wastes on the one side and make unique environmental protection bags on the other hand.

Yangpu Has 29 Direct Selling Spots for Cold Fresh Chicken

By Zheng Xiaomeng

Live poultry trade in Shanghai was officially terminated on January 31 and would not resume until April 30. Yangpu District has carried out thorough cleaning in all the markets for live poultry trade. To meet local demand, Shanghai Municipal Commission of Commerce has recently increased the direct selling spots for cold fresh chicken to 475, 29 of which are located in Yangpu.

Cold fresh poultry provided by the enterprises such as Liuhe Farm, Liangyuan Cooperative, Shanghai Shenghua, Hunan Xiangjia and Wangyuan Cooperative have set up dedicated counters at supermarkets including Auchan, Tesco, RT-Mart, Walmart and CP Lotus. They are also available at many vegetable markets such as Anshan, Dunhua and Shuangliao with sufficient supply.

According to statistics of Yangpu District Commission of Commerce, the sales of cold fresh chicken are not optimistic mainly because consumers prefer live poultry. However, experts say cold fresh chicken is safe, clean, fresh, tasty and nutritious. Comprehensive value of cold fresh chicken is higher than live chicken which is safer to both transporters, sales people and consumers because all the chicken need to pass inspection and quarantine, saving killing on site and direct contact with live poultry.

Thousland E.M. Joins Hands with EFG

By Mao Xinhui

Thousland E.M. the public service platform has recently signed an agreement with Shanghai Technology Entrepreneurship Foundation for Graduates (EFG) as the first significant cooperation project of the company this year. Thousland E.M. will accept graduates' applications for entrepreneurship as a special branch of the foundation.

EFG founded in August 2006 is China's first non-profitable public offering of fund that is engaged in promotion of entrepreneurship culture, supporting enterprising practices and encouraging graduates to start technology business. To further improve its capability, EFG has been exploring in-depth innovation and enterprising service model. According to the principal of EFG, the motherly enterprising service model offered by Thousland E.M. is the support that graduates are looking for to start their business. Through this cooperation, Thousland E.M. is expected to provide professional incubation services for graduates with its massive resources on its platform.

According to Chairman Yang Qiuping of Thousland E.M, the original purpose of founding Thousland E.M. was to put her enterprises service resources that she has accumulated for years to the internet, attract broader element resources, optimize the setup of enterprising project, reduce enterprising cost and risks, and increase success indexes. As learned, the platform has included offering enterprising services to graduates to its service systems. In 2013, Thousland E.M. organized "2013 National New Media Innovative Enterprising Contest" in Shanghai University of Finance and Economics and East China University of Science and Technology, enabling students in the universities to experience the enterprising atmosphere.

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