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LED Technology Getting Better with new Developments

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Story link: [LED Technology Getting Better with new Developments](#) by Franz Bicar



LED displays is the future for televisions. Even now, companies are spending huge amount of resources to improve current LED technology. Of course, most LED TV sets out on the market today is being disputed and the main complaint is that the display is not composed of 100% LEDs and so should not be called LED TV.

LED-backlit LCD TVs do differ from conventional LCD TVs. These improvements include the following:

- They can produce a very bright image with greater contrast and deeper blacks compared with LCD TVs.
- With Edge-LED lighting they can be extremely slim. Current models on the market are just over 1 inch thick.
- They consume much less power. About 40% less compared with an LCD TV of a similar size.
- They can offer a wider colour gamut, especially when RGB-LED backlighting is used.

Now, a team of international researchers has developed a new process to create tiny, ultrathin inorganic light-emitting diodes (LEDs) that shine brighter and last longer than conventional LEDs. Stretchable micro-LED display, consisting of an interconnected mesh of printed micro LEDs bonded to a rubber substrate.

The team is led by John Rogers, a professor of Materials Science and Engineering at the University of Illinois, and consists of teams from Northwestern University, the Institute of High Performance Computing in Singapore, and Tsinghua University in Beijing.

In his statement, Rogers said that:

“Our goal is to marry some of the advantages of inorganic LED technology with the scalability, ease of processing and resolution of organic LEDs. By printing large arrays of ultrathin, ultrasmall inorganic LEDs and interconnecting them using thin-film processing, we can create general lighting and high-resolution display systems that otherwise could not be built with the conventional ways that inorganic LEDs are made, manipulated, and assembled.”

Possible uses for this technology could be TV screens that could be rolled up when not in use or screens as thin and as manageable as a regular poster. It is also relevant on the advancement in medicine.

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