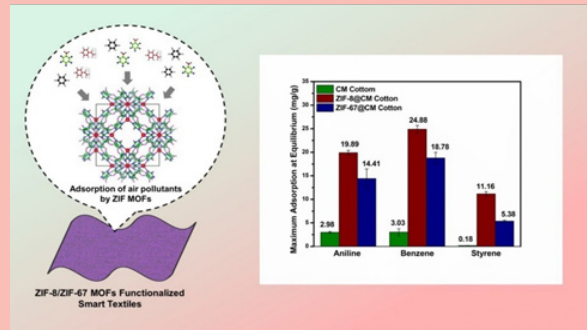
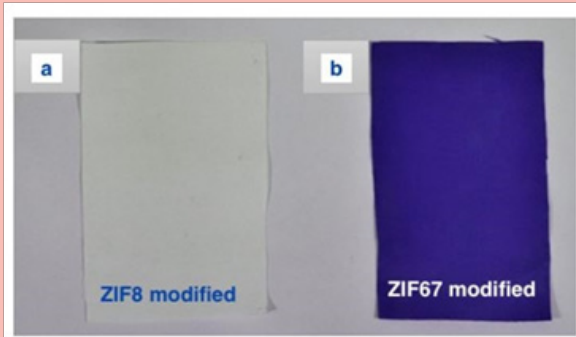


## Modified Cotton Fabric — Adsorbs Harmful Air Pollutants



A team of researchers from the Indian Institute of Technology (IIT), Delhi, has developed a low-cost, modified cotton fabric that is capable of adsorbing harmful pollutants from ambient air. They are Zeolite Imidazolate Framework (ZIF)-modified functionalized fabrics and called ZIF-8@CM Cotton and ZIF-67@CM Cotton. They can adsorb high levels of organic air pollutants such as aniline, styrene, and benzene from the ambient air.

Source: IIT Delhi

## 'NeoBolt' Indigenous Motorized Wheelchair Vehicle



**RESEARCHERS** from the Indian Institute of Technology (IIT), Madras, have developed India's first indigenous motorized wheelchair vehicle named 'NeoBolt'. It is powered by a Lithium-Ion Battery that will give 25 km for every charge and can be used not only on roads but even on uneven terrains. It empowers wheelchair users with a convenient, safe and low-cost mode of outdoor mobility when compared to cars, auto-rickshaws or modified scooters.

Source: IIT Madras, Press release

## 'Smart' Shirt



*Rice University graduate student Lauren Taylor shows a shirt with carbon nanotube thread that provides constant monitoring of the wearer's heart. Photo by Jeff Fitlow*

**RESEARCHERS** from Rice University have developed a smart shirt which is basically a nanotube fibre into athletic wear to monitor the heart rate and take a continual electrocardiogram (EKG) of the wearer. The study is reported in the American Chemical Society journal *Nano Letters*.

Source: <https://news.rice.edu/2021/08/30/smart-shirt-keeps-tabs-on-the-heart-2/>

## Charging Room



*The finished charging room, located at the University of Tokyo. Image credit: The University of Tokyo*

**RESEARCHERS** from the University of Michigan and the University of Tokyo have developed a system to safely deliver electricity over the air, potentially turning entire buildings into wireless charging zones. The technology can deliver 50 watts of power using magnetic fields. It wirelessly powers lamps, fans and cell phones that could draw current from anywhere in the room regardless of the placement of people and furniture. The study is published in *Nature Electronics*.

Source: <https://news.umich.edu/charging-room-system-powers-lights-phones-laptops-without-wires/>