

A Practical To Fibre Science

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A Practical To Fibre Science

Networks of quantum computers—those powerful machines not bound by binary 0s and 1s—could be the future of ultra-secure data encryption.

What the heck is a quantum network?

Even though he works with spiders regularly, Yao Zhang, a physicist at Jinan University in China, admits he's afraid of them. In fact, most of the people in his lab are, except for graduate student ...

Eensy Weensy Spider Silk Takes the Temperature of a Single Cell

Researchers from Wageningen University & Research, Pol Grootswagers and Iris Rijnaarts have just received the James Lind Prize 2021.

Grootswagers and Rijnaarts win James Lind Prijs 2021

Susan Bowerman Senior Director, Worldwide Nutrition Education and Training, Herbalife Nutrition As a dietitian, I often recommend healthy proteins like soybeans and tofu in many of my recipes and meal ...

Is Soy Good for You? What Does the Science Say?

When the precursor to today's internet carried its first message in 1969, clunky but functional classical computers had already been around for decades. Now, physicists are designing the embryonic ...

Physicists link 'quantum memories' in early step toward quantum internet

In a new paper published in Light Science & Application ... both fundamental researches for nonlinear systems but also practical applications that involves massive number of optical solitons.

PCF-based 'parallel reactors' unveils collective matter-light analogies of soliton molecules

For that, they will need the quantum equivalent of optical repeaters, the components of today's telecommunications networks that keep light signals strong across thousands of kilometers of optical ...

The internet goes quantum

This culture infects every fiber of our soul ... We all wear uniforms, although a gaggle of computer science and electronics nerds all wearing black t-shirts won't tell you that.

Ask Hackaday: Which Balaclava Is Best For Hacking?

2 College of Materials Science and Engineering ... Issue that has to be faced in the practical uses of LM composite materials (40). Furthermore, to improve the toughness and elastic recovery of the LM ...

Conductance-stable liquid metal sheath-core microfibers for stretchy smart fabrics and self-powered sensing

University of Electro-Communications publishes the June 2021 issue of UEC e-Bulletin The June 2021 issue of the UEC e-Bulletin includes a video profile of UEC Assistant Professor Daisuke Nakane where ...

University of Electro-Communications e-Bulletin: How and why do bacteria move

UK-based startup Arqit is on track to start delivering unbreakable quantum encryption keys all over the world using satellites in just two years. Arqit, which recently announced collaborations with U.

UK company to start sending secret quantum keys with satellites in 2023

Photonics is a vital cog in further developing the chipmaking industry, ensuring companies and manufacturers have a steady stream of new technology coming down the tracks ...

Cork: County at the vanguard of photonics training and education

ZDHC has joined The Microfibre Consortium (TMC) as a Research Member to facilitate the development of science-based solutions for the textile industry to minimise fibre fragmentation ... very best ...

The ZDHC Foundation joins The Microfibre Consortium

Another crucial step in the development of practical quantum networks is the implementation of quantum repeater protocols, which enable long-distance quantum communication via optical fibre channels.

3D printed micro-optics for quantum technology

The practical challenge of collecting information from a single atom deep inside a diamond is a daunting one, however. Engineers at the University of Pennsylvania's School of Engineering and Applied ...

Metasurface lens etched onto diamond single-photon quantum source efficiently collects photons

In a new paper published in Light Science & Application ... soliton dynamics that can benefit both fundamental research and practical applications. The parallel optical-soliton reactors are ...