

enter a personal computer”.

Here at Springwise, we have often spotted advances in supercomputing, such as the use of supercomputers to [model tsunamis](#) or the development of [quantum algorithms](#). But if this technology can be scaled up, it will revolutionise how binary code—the most basic building block of computing—is generated.

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Takeaway:

One challenge facing the researchers is that although the device requires very little energy to switch, it still requires constant input from the pump laser. The team is working on ways to get around this using perovskite supercrystals which superfluoresce, to help lower the power consumption. Despite the challenges, the researchers hope that the new switch could be used in some types of optical computing devices relatively soon, perhaps as a way to speed up processing in supercomputers. However, Lagoudakis also suggests the new optical switch could serve as a light detector in lidar scanners, including those uses in drones and autonomous vehicles.