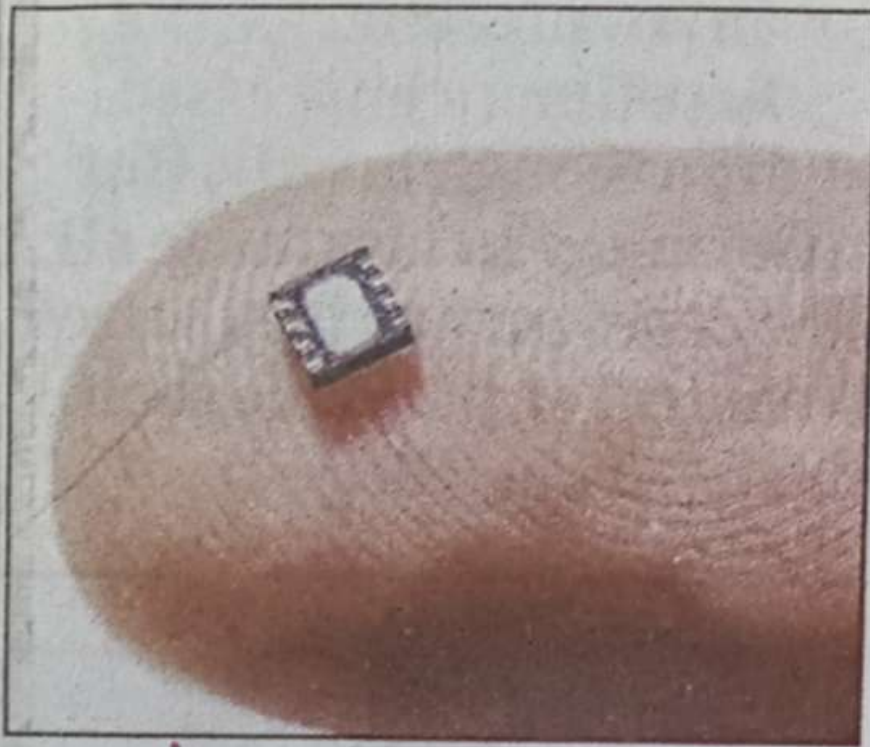


# New chip



ISTOCK.COM

■ **Scientists at Monash University in Australia created a tiny chip that can generate, steer and read light-based information all in one device, marking a major leap toward ultra-fast, energy-efficient computing. The breakthrough uses atomically thin materials and nanoscale structures to control a unique quantum property of light called the “valley” degree of freedom, allowing information to be encoded in new ways.**