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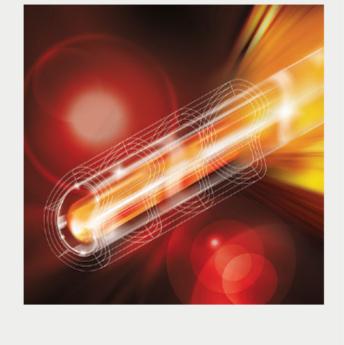
Silicon Metamaterials Hold Promise for Photonic Circuits,

Chips

Top Stories

As data transmission technology moves towards miniaturization, all-diaelectric, silicon-based metamaterials may offer the necessary control of light through

achievement of total internal reflectance. Researchers from Purdue University seek to engineer total internal reflection in optical fibers surrounded by a transparent silicon metamaterial, which could enable computer chips and interconnecting circuits that use light instead of electrons to process and transmit data.



Disease Detection





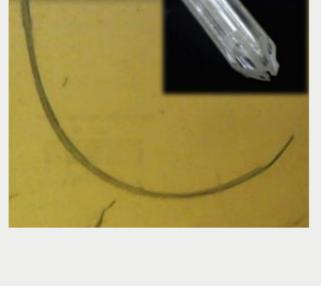


Wasp-Inspired Needle Could Advance Spectroscopy for

A robotic surgical system inspired by the anatomy of wood-boring wasps could be

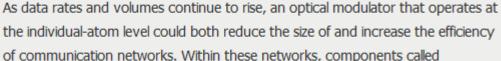
used in Raman spectroscopy to detect cancerous and diseased tissue. The prototype needle design is based on female parasitoid wasps, which use a bendable needle-like ovipositor to bore into wood to lay eggs in hiding host larvae.

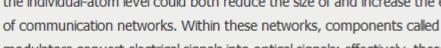
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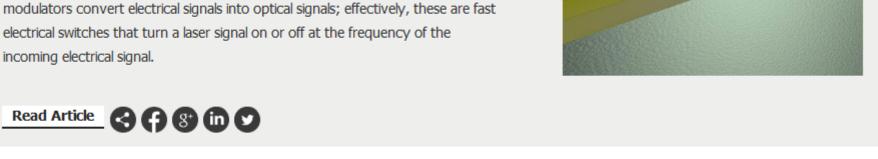


incoming electrical signal.



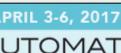






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out processing on rectangular panels.

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financial terms of the order were not disclosed. Selected for the industry's first

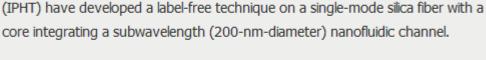
panel manufacturing line, the JetStep S Series will be used for next-generation fan-



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