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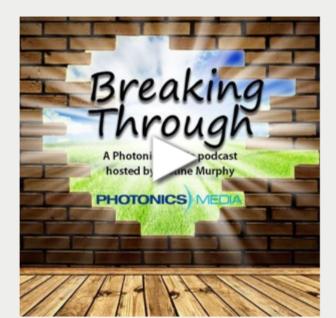


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Van Camp In this episode, we talk with Mackenzie Van Camp, a Ph.D. candidate at Boston

Breaking Through: Women in Photonics, ep.2 Mackenzie

University who is studying ways to apply quantum mechanics of light for higher precision measurements, specifically in sensing applications, using a process called spontaneous parametric down-conversion. As a younger female embarking on her career in photonics, she shares her experiences and offers a unique perspective on the industry.



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Semiconductor-Free





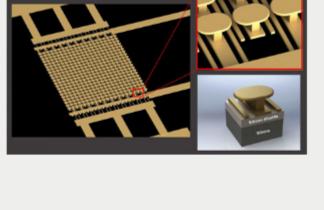
Photoemission-Based Microelectronics Are



A semiconductor-free, optically-controlled microelectronic device fabricated using metamaterials has shown a significant increase in conductivity when activated by low voltage and a low power laser. The discovery may facilitate the development of

and could also lead to more efficient solar panels. The device consists of an engineered metasurface on top of a silicon wafer, with a layer of silicon dioxide in between. Read Article (3) (7) (8) (in) (2)

microscale electronic devices that are faster and capable of handling more power,



Autonomous Industrial Robot Paints With Precision







Some of the building interiors in Singapore will soon be getting a fresh coat of paint, meticulously applied by the PictoBot, an autonomous robot that makes

painting large areas a fast and easy process. PictoBot can paint a high interior wall 25 percent faster than a crew of two painters using a scissor lift, improving both productivity and safety. Co-developed by researchers at Nanyang Technological University (NTU Singapore) and JTC Corporation, the robot integrates several components to automate the spray painting of interior walls that may have different specifications. **3 7 8 0 0** Read Article



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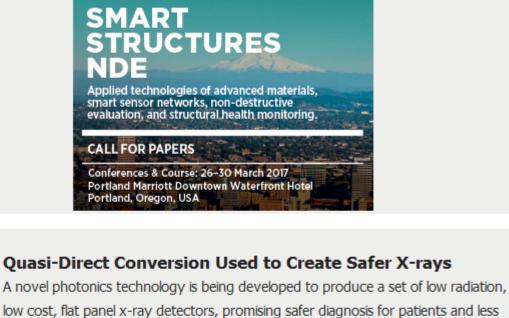






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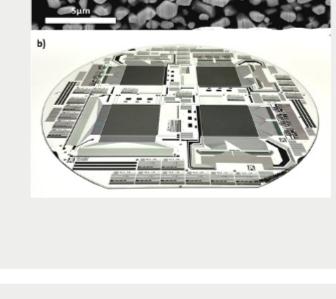




organic x-ray detectors on Metal oxide backplane — project also promises this new

exposure for hospital and dental staff. The DiCoMo — Direct Conversion hybrid-

technology will produce some of the highest resolution images ever seen in single x-ray records or CT scans.



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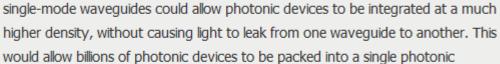


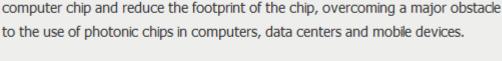


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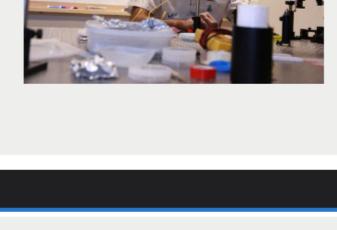


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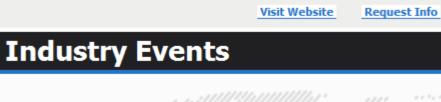
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