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metamaterial (PM), also  
known as an optical  
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of electromagnetic  
metamaterial, that  
interacts with light,  
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infrared (IR) or visible wavelengths. The materials employ a periodic, cellular structure. The subwavelength periodicity distinguishes photonic metamaterials from photonic band gap or photonic crystal structures.

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at IR and THz spectral

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ranges, e.g., KBr, 149  
diamond and sapphire,  
it would be possible to  
create optical elements  
which can be tuned by  
irradiation in the optical  
absorption band,  
usually operating in the  
UV spectral range. Such  
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physically enabled by  
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complex nanophotonic  
structures, and by new  
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understanding of optical  
components and design.  
... consisting of regular

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By moving the laser focus through the material, 3D structures can be fabricated (see Figure 1). The technique has been used with a variety

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of photostructurable  
materials and several  
components and devices  
have been fabricated,  
including photonic-  
crystal templates,  
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Here, we will  
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titanium nitride's



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in addition to the short list of plasmonic materials paves the way to a new class of data recording systems and CMOS-compatible, on-chip hybrid nanophotonic devices with unprecedented compactness, speed and efficiency. TiN may also enable novel energy conversion schemes.

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