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periodic optical nanostructure that affects the

motion of photons in much the same way

that ionic lattices affect electrons in solids.

Photonic crystals occur in nature in the form

of structural coloration and animal reflectors,

and, in different forms, promise to be useful

in a range of applications., Photonic Crystals:

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Joshua N. Winn, Robert D. Meade] on

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Engineering & Materials Science University

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"Maximal Spontaneous Photon Emission and

Energy Loss from Free Electrons" () Yi Yang,

Aviram Massuda, Charles Roques-Carmes,

Steven E. Kooi, Thomas Christensen, Steven

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Miller, Ido Kaminer & Marin Soljacic., A

metamaterial (from the Greek word $\mu\eta\tau\alpha$,

meta, meaning "beyond") is a material

engineered to have a property that is not

found in nature. They are made from

assemblies of multiple elements fashioned

from composite materials such as metals or

plastics., JNO is a cross-disciplinary

peer-reviewed journal to consolidate all

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activities in the areas of nanoscale electronic

and optoelectronic materials and devices,

electronic and optical properties of

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hybrid nanostructures, electronic applications

of superlattices, quantum ..., biological

materials, hierarchical, strength, mechanical

properties, modeling, simulation, multiscale,

electron microscopy, DIC, hierarchical

composite, natural composite, biocomposite,

strength, lobster, insect, cuticle, chitin,

biomaterial, composite, modeling, simulation,

multiscale simulation, A retired chemistry prof's view of misleading and deceptive nonsense about 'coral calcium'. This article provides an overview of current research into the synthesis and properties of gold nanorods. Interest in rod-shaped nanoparticles stems from their unique optical properties, which can be approximated by Mie's theory. For centuries, Bombyx mori silkworm silk fibroin has been used as a high-end textile fiber. Beyond textiles, silk fibroin has also been used as a surgical suture material for decades, and is being further developed for various emerging biomedical applications. Advanced options. Topic Area, New Competition for MOFs: Scientists Make Stronger COFs. Foundry staff and users have used a chemical process discovered decades ago to make the linkages between COFs much more sturdy, and to give the COFs new characteristics that could expand their applications. October 1, 2008 First published in Journal of Food Science. October 2008. 73(8): R107 - R116. doi: 10.1111/j.1750-3841.2008.00933.x.

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