

Abstracts

Laminated photonic band structures with high conductivity and high transparency

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A transparent conductor has been developed based on one-dimensional metal/dielectric photonic band gap structures. Laminated metal/dielectric filters containing 100 nm of silver have been fabricated with >50% transmittance. Applications for transparent conducting films include antennas embedded in windshields, electrodes on flat panel displays, electromagnetic shielding, and solar window panes.

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