

Abstracts

Laminated photonic band structures with high conductivity and high transparency

M.J. Boemer, M. Scalora and J.P. Dowling. "Laminated photonic band structures with high conductivity and high transparency." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 893-896 vol.3.

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.

 [Return to main document.](#)