

Transparent Metals

David J. Fisher

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There is much current interest in transparent metals which are optical materials based upon photonic band-gap structures.

Keyword: Solar Cells, Optoelectronic Devices, Photonic Band-Gap Structure, Light-Emitting Diodes, Metal-Polymer Hybrid Nanostructure, Ultra-Thin Gold Electrode, Transparent Metal Electrode Materials, Transparent Heaters, Silver Nanowire Electrodes

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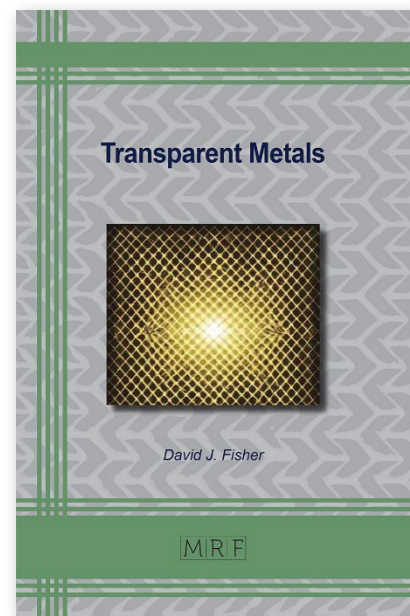
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Summary:

There is much current interest in transparent metallic materials. These are optical materials based upon photonic band-gap structures which are created by combining films of metals and dielectrics. Transparent materials are used to produce devices having electrically variable optical properties. Such photonic devices exhibit increased speeds of operation, reduced size and increased immunity to temperature changes. The book references 202 original resources with their direct web links for in-depth reading.



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