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Metallic Films For Electronic Optical

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Metallic Films for Electronic, Optical and Magnetic ...

11 Optical properties of metallic films 547 D. Shelton, Plasmonics Inc., USA 11.1 Introduction 547 11.2 The Drude and Sommerfeld models 548 11.3 Deviations from the Drude-Sommerfeld model due to electronic band structure 554 11.4 Optical properties of metallic thin films at infrared frequencies 557 11.5 Optical skin effects in thin metallic films 558

Metallic films for electronic, optical and magnetic ...

Optical properties of metallic films for vertical-cavity optoelectronic devices Aleksandar D. Rakic¹, Aleksandra B. Djuris², Jovan M. Elazar, and Marian L. Majewski We present models for the optical functions of 11 metals used as mirrors and contacts in optoelectronic

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The optical properties of metallic films, their relation to the low frequency electronic properties and how the conductivity and permittivity of the metal changes as the frequency increases are described by use of the Drude and Sommerfeld models.

Optical properties of metallic films - ScienceDirect

We present models for the optical functions of 11 metals used as mirrors and contacts in optoelectronic and optical devices: noble metals (Ag, Au, Cu), aluminum, beryllium, and transition metals (Cr, Ni, Pd, Pt, Ti, W). We used two simple phenomenological models, the Lorentz-Drude (LD) and the Brendel-Bormann (BB), to interpret both the free-electron and the interband parts of the ...

OSA | Optical properties of metallic films for vertical ...

The results for Ti₂C_z films confirm the metallic behavior. In contrast, no evidence of metallic behavior is observed for the Nb₂C_z film. The present work therefore demonstrates that one fruitful approach to alter the electronic and optical properties of MXenes is to change the nature of the transition metal.

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Optical properties of polycrystalline metallic films ...

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Terahertz transparency of optically opaque metallic films. Zhengyong Song 1, Zhen Gao 1, ... As compared to the microwave electronic and optical photonic technologies, ... may substantially degrade the device performance can become issues when using freestanding multilayers plasmonic metal films at optical frequencies.

Terahertz transparency of optically opaque metallic films ...

However, several other metallic films properties can be largely tuned by thickness and nanostructure control, from mechanical ones to optical ones. In addition, recently, great interest has been given to the plasmonic properties of thin nanostructured and nano-patterned metallic films, in the fabrication of high-sensitivity optical sensors (exploiting, for example, Surface-Enhanced Raman ...

Metals | Special Issue : Metallic Films: From ...

We investigate the use of nanopatterned metallic films as transparent conductive electrodes in optoelectronic devices. We find that the physics of nanopatterned electrodes, which are often optically thin metallic films, differs from that of optically thick metallic films. We analyze the optical properties when performing a geometrical transformation that maintains the electrical properties ...

Nanopatterned Metallic Films for Use As Transparent ...

Hole-induced electronic and optical transitions in $L a 1 - x S r x F e O 3$ epitaxial thin films Le Wang, Yingge Du, Peter V. Sushko, Mark E. Bowden, Kelsey A. Stoerzinger, Steven M. Heald, Mark D. Scafetta, Tiffany C. Kaspar, and Scott A. Chambers Phys. Rev. Materials 3, 025401 – Published 4 February 2019

Hole-induced electronic and optical transitions in ...

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