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Microcrystalline Silicon Prepared by VHF-GD: Structure

Optical, electrical and photoluminescence properties of the films were investigated. According to the resistance-temperature measurements, Bi₂Se₃ thin films are typical semi-conducting materials with calculated activation energies of 0.031095 eV and 0.07664 eV and

Structural, Transport and Optical Properties of

In particular, Pd₂Se₃ monolayer exhibits novel anisotropic transport properties and has a rather good current-voltage character. Moreover, Pd₂Se₃ monolayer shows a very pronounced optical absorption that covers almost the entire solar spectrum.

Pd₂Se₃ monolayer: a novel two-dimensional material with

TRANSPORT AND OPTICAL PROPERTIES OF SINGLE- ... PHYSICAL REVIEW B 91, 115436 (2015)
k-dependent velocities around the point ($k = 0$). This is different from the Dirac fermion in graphene which travels with constant velocity $v_F = c/300$, where c is the speed of light in vacuum.

Transport and optical properties of single- and bilayer

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Optical and Transport Properties in 3D Dirac and Weyl Semimetals C. J. Tabert^{1,2}, J. P. Carbotte^{3,4}, ... Within a Kubo formalism, we study dc transport and ac optical properties of 3D Dirac and Weyl semimetals. Emphasis is placed on the approach to charge neutrality and on the differences between ... optical conductivity, the effect of a ...

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