

silicides germanides and their pdf

These materials are technologically important because of their current use in standard silicon CMOS integrated circuits—silicides and germanides are used in the silicide process to form contacts to the active regions in CMOS devices. Many of these materials also grow epitaxially on silicon.

Silicides - an overview | ScienceDirect Topics

Nickel silicides and nickel germanides are under interest for their microelectronic applications. They are often declared to have the same behavior that is usually observed in thin film reactions ...

(PDF) A comparative study of nickel silicides and nickel

Nickel silicides and nickel germanides are under interest for their microelectronic applications. They are often declared to have the same behavior that is usually observed in thin film reactions ...

(PDF) Nickel silicides and germanides: Phases formation

Abstract. New unsynthesized equiatomic ABX (A and B are various metals; X = Si or Ge) compounds are predicted, and their types of crystal structure are forecasted under standard conditions. Only the data on the properties of the elements—components of compounds are used for their prediction. The calculations are performed using a special-purpose software package of computer analysis of ...

Prediction of the crystal structure types of equiatomic

Topological nodal-line semimetals in alkaline-earth stannides, germanides, and silicides Huaqing Huang, 1,2 Jianpeng Liu, 3,4 David Vanderbilt, and Wenhui Duan 1,2,5 * 1 Department of Physics and State Key Laboratory of Low-Dimensional Quantum Physics, Tsinghua University, Beijing 100084, China

Topological nodal-line semimetals in alkaline-earth

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M5X3-type rare earth silicides and germanides and their

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predicted, and their types of crystal structure are forecasted under standard conditions. Only the data on the ... to the wellknown equiatomic silicides and germanides onto the plane with the coordinates proposed in [7] (i.e., parameter $r = R / (r_A + r_X)$ and the valence electron

Prediction of the Crystal Structure Types of Equiatomic

Physica 124B (1984) 247-250 North-Holland, Amsterdam ON THE HEATS OF FORMATION OF SOLID GERMANIDES AND SILICIDES OF TRANSITION METALS A. PASTUREL and P. HICTER Laboratoire

On the heats of formation of solid germanides and

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Silicides, germanides, and their interfaces : symposium

All of the related germanides are also semiconductors. While a priori estimated possibilities to form ternary silicides by substituting silicon atoms with germanium look rather simple, only a few have been experimentally obtained and investigated.

A Study of Semiconducting Silicides - UNT College of Arts

Data are presented for the carbides, silicides, germanides and stannides in Group IVB, and for the borides and aluminides in Group IIIB. During the past year (1999-2000) we have extended our work to compounds of the 3d, 4d and 5d elements with gallium (see papers No.40, No.41, and No.45 in the List of Publications).

High-temperature thermochemistry of transition metal

Silicides and germanides are compounds consisting of a metal and silicon or germanium. In the microelectronics industry, silicides are the material of choice for contacting silicon based devices (over the years, CoSi₂, C54-TiSi₂, and NiSi have been adopted), while germanides are considered as a top candidate for contacting future germanium based electronics.

Texture in thin film silicides and germanides: A review

Standard enthalpies of formation of characteristic carbides, silicides and germanides for RE = La, Ce, Pr, Nd, Gd, Tb, Dy. present authors [6-8,10,11,46]. Note that in this figure we give the enthalpies of formation of RECZ for the carbides, of REST for the silicides and of RESGe₃ for the germanides.

Standard enthalpies of formation of some carbides

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