

### **metallurgy of doped non pdf**

IOSR Journal of Applied Physics (IOSR-JAP) e-ISSN: 2278-4861. Volume 3, Issue 5 (Mar. - Apr. 2013), PP 80-87 [www.iosrjournals.org](http://www.iosrjournals.org) Niobium doped BGO glasses: Physical, Thermal and Optical Properties Khair-u-Nisa<sup>1</sup>, Ejaz Ahmed<sup>2</sup>, M. Ashraf Chaudhry<sup>3</sup> 1,2,3 Department of Physics, Bahauddin Zakariya University, Multan (60800), Pakistan.

### **Niobium doped BGO glasses: Physical, Thermal and Optical**

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Silicon is a chemical element with symbol Si and atomic number 14. It is a hard and brittle crystalline solid with a blue-grey metallic lustre; and it is a tetravalent metalloid and semiconductor. It is a member of group 14 in the periodic table: carbon is above it; and germanium, tin, and lead are below it. It is relatively unreactive.

### **Silicon - Wikipedia**

Thulium is a chemical element with symbol Tm and atomic number 69. It is the thirteenth and third-last element in the lanthanide series. Like the other lanthanides, the most common oxidation state is +3, seen in its oxide, halides and other compounds; because it occurs so late in the series, however, the +2 oxidation state is also stabilized by the nearly full 4f shell that results.

### **Thulium - Wikipedia**

Micro-alloyed nickel aluminide Ni<sub>3</sub>Al and boron-doped Ni<sub>3</sub>Al, containing 0.15 wt% B, were processed via powder metallurgy. The effect of the boron on the

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Dispersed Ag clusters catalyze CO oxidation as effectively as precious metals because of the clusters' smaller difference between the CO\* and O\* heats of adsorption, which enables O to bind to the clusters. The oxygen-to-the square of the carbon monoxide pressure ratio dictates the relative surface abundance of CO\* and O\* and, in turn, the kinetic dependencies.

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Thermoelectric materials have drawn vast attentions for centuries, because thermoelectric effects enable direct conversion between thermal and electrical energy, thus providing an alternative for power generation

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Thermoelectric materials can be used in direct conversion of heat to electricity and vice versa. The past decade has witnessed the rapid growth of thermoelectric research, targeting high thermoelectric performance either via reduction in the lattice thermal conductivity or via enhancement of the power factor.

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