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They tested their hypothesis on a 6-component II-VI chalcogenide alloy derived from the PbTe structure by mixing Ge, Sn, and Pb on the cation site, and S, Se, and Te on the anion site. Using high ...

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Semiconducting chalcogenide glasses can also be used as raw materials. The possibility of a controllable partial crystallization of the glass, and especially the presence of nanocrystals in situ generated from the glassy matrix by an appropriate thermal treatment, could lead to an improvement of the thermoelectric properties. This possibility is now starting to be explored in our group.

### **Semiconducting glasses: A new class of thermoelectric ...**

Chalcogenide glass is made up of many elements from the Chalcogenide group. The glass is transparent to infrared light and is useful as a semiconductor in many electronic devices. For example, chalcogenide glass fibers are a component of devices used to perform laser surgery.

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Te based chalcogenide glasses are being explored for non-volatile memory applications. We report the electrical switching studies on bulk Ge<sub>0.20</sub>Te<sub>0.80</sub> glass alloyed with As<sub>0.40</sub>Se<sub>0.60</sub> in different ...

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Volume 78. Semiconducting Chalcogenide Glass I Published: 10th May 2004 Editors: Robert Fairman Boris Ushkov

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The semiconducting properties of chalcogenide glasses were revealed in 1955 by B.T. Kolomiets and N.A. Gorunova from Ioffe Institute, USSR. [6] [7] Although the electronic structural transitions relevant to both optical discs and PC-RAM were featured strongly, contributions from ions were not considered—even though amorphous chalcogenides can have significant ionic conductivities.

### **Chalcogenide glass - Wikipedia**

Semiconducting Chalcogenide Glass III: Applications of Chalcogenide Glasses is a comprehensive overview of designs of various chalcogenide glass devices are presented, including switches, phase inverters, voltage stabilizers, oscillators, indicators and display control circuits, memory devices, and sensors. A special chapter is devoted to chalcogenide glass applications in optical fibers.

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Chalcogenide glass Last updated April 12, 2020. Chalcogenide glass (pronounced hard ch as in chemistry) is a glass containing one or more chalcogens (sulfur, selenium and tellurium, but excluding oxygen). Such glasses are covalently bonded materials and may be classified as covalent network solids. Polonium is also a chalcogen but is not used because of its strong radioactivity.

### **Chalcogenide glass - WikiMili, The Best Wikipedia Reader**

Semiconducting High-Entropy Chalcogenide Alloys with Ambi-ionic Entropy Stabilization and Ambipolar Doping. Chemistry of Materials , 2020; 32 (14): 6070 DOI: 10.1021/acs.chemmater.0c01555 Cite ...

### **Scientists discover new class of semiconducting entropy ...**

Chalcogenide photovoltaics (2011) Amorphous chalcogenide semiconductors and related materials (2011) Electrochemistry of metal chalcogenides (2010)

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We report the results of pressure-induced semiconductor-metal phase transition of the semiconducting chalcogenide compound KPSe<sub>6</sub> under high pressure using the ab initio methods. The ground-state energy calculations were performed within density functional theory and the generalized gradient approximation using the pseudopotential method with plane-wave basis sets.

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