

PURIFICATION OF II-VI COMPOUNDS BY SOLVENT EXTRACTION*

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Single crystals of the wide-band-gap II-VI compounds ZnTe, ZnSe, ZnS, and CdS can be prepared by either the melt growth or the vapor-phase growth techniques. In either case, the materials are in contact with refractory container materials for considerable lengths of time at high temperatures and are hence subject to contamination by diffusion of impurities from the container material into the crystal. Very often, therefore, even the most painstakingly purified starting materials do not lead to comparably pure single crystals. The floating zone purification technique used successfully with many semiconductor materials is, in principle, possible with II-VI compounds. However, because of the high vapor pressure developed by ZnSe, ZnS, and CdS at their respective melting points, the required apparatus is rather complex. As a result, most research on wide-band-gap II-VI compounds has been carried out with material having a residual impurity concentration in the part per million range.

It is the object of this communication to describe the application of solvent extraction to the purification of the above compounds, by which treatment several of the electrically and optically active impurities in these compounds can be reduced to the part per billion range.

The method consists in heating the crystal to be purified in contact with a molten metal in which the particular impurity to be extracted is readily soluble: the logical choice for the solvent metal being Zn for ZnTe, ZnSe, and ZnS, and Cd for CdS. The extraction is carried out by sealing the crystal with two to ten times its weight of Zn or Cd in a small quartz tube under vacuum and heating it for a time sufficient to establish equilibrium between the solid and the liquid phases. For ZnTe, temperatures between 900 and 1000°C and firing times of approximately one day are sufficient to establish equilibrium. For ZnSe and ZnS the extraction occurs best at 1000–1050°C and takes one to two days. For

CdS, temperatures between 800 and 900°C for two to five days appear to produce equilibrium. All these times are for crystals with minimum dimensions of 1–3 mm. In all cases the molten metal dissolves 1–5% of the crystal.

The removal of acceptor type impurities from ZnTe, ZnSe, and CdS was monitored by a radioactive tracer technique using the isotopes Cu^{64} and/or Ag^{110} . The Cu^{64} or Ag^{110} was first diffused into the bulk of the crystal, following which the crystal was chemically etched to remove any surface excess of the dopant and the total gamma radiation was counted. The total Cu or Ag concentration was between 10^{17} and 10^{19} cm^{-3} . The crystal was then heated in contact with the molten metal, following which it was again chemically etched and a second gamma radiation count was carried out. From the two gamma counts and the relative weights of the crystal and the solvent metal, the segregation coefficients¹ given in Table I were obtained.

The high purity of the II-VI compounds crystals treated by the above described extraction technique has manifested itself in the following electrical and optical properties:

Table I. Summary of Results on Extracting Cu and Ag from II-VI Compounds

Impurity Removed	Crystal	Solvent	Firing Temperature (°C)	Segregation Coefficient
				$\times 10^{-5}$
Ag	ZnTe	Zn	950	3
Ag	ZnSe	Zn	950	2
Ag	CdS	Cd	900	< 2
Cu	ZnTe	Zn	900	2

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Wide-Gap Chalcopyrites Susanne Siebentritt, Uwe Rau, 2006-02-25 Chalcopyrites in particular those with a wide band gap are fascinating materials in terms of their technological potential in the next generation of thin film solar cells and in terms of their basic material properties They exhibit uniquely low defect formation energies leading to unusual doping and phase behavior and to extremely benign grain boundaries This book collects articles on a number of those basic material properties of wide gap chalcopyrites comparing them to their low gap cousins They explore the doping of the materials the electronic structure and the transport through interfaces and grain boundaries the formation of the electric field in a solar cell the mechanisms and suppression of recombination the role of inhomogeneities and the technological role of wide gap chalcopyrites *Proceedings* Martin Muñoz, 2004 *physica status solidi c* conferences and critical reviews publishes conference proceedings ranging from large international meetings to specialized topical workshops as well as collections of topical reviews on various areas of current solid state physics research The 11th International Conference on II VI Compounds II VI 2003 was held from 22-26 September 2003 in Niagara Falls NY USA The program demonstrated the wide range of II VI research Highlights were quantum dots and nanocrystals ZnO based materials and structures as well as magnetism and spintronics Further topics such as growth and characterization doping and defects electronic structure and devices were also well represented **Emission Tomography** Miles N. Wernick, John N. Aarsvold, 2004-12-07 PET and SPECT are two of today's most important medical imaging methods providing images that reveal subtle information about physiological processes in humans and animals Emission Tomography The Fundamentals of PET and SPECT explains the physics and engineering principles of these important functional imaging methods The technology of emission tomography is covered in detail including historical origins scientific and mathematical foundations imaging systems and their components image reconstruction and analysis simulation techniques and clinical and laboratory applications The book describes the state of the art of emission tomography including all facets of conventional SPECT and PET as well as contemporary topics such as iterative image reconstruction small animal imaging and PET CT systems This book is intended as a textbook and reference resource for graduate students researchers medical physicists biomedical engineers and professional engineers and physicists in the medical imaging industry Thorough tutorials of fundamental and advanced topics are presented by dozens of the leading researchers in PET and SPECT SPECT has long been a mainstay of clinical imaging and PET is now one of the world's fastest growing medical imaging techniques owing to its dramatic contributions to cancer imaging and other applications Emission Tomography The Fundamentals of PET and SPECT is an essential resource for understanding the

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