

# Narrow-gap Semiconductors

by R Dornhaus G Nimtz B Schlicht

Superconductivity in the Narrow Gap Semiconductor RbBi<sub>11</sub>/3Te<sub>6</sub> . 11 Mar 2014 . Advances in the growth, analysis, and characterization of various narrow-gap semiconductors and low-dimensional optoelectronic device Thermoelectricity in correlated narrow-gap semiconductors . Auger lifetime in narrow gap semiconductors. Abstract: Direct and phonon-assisted Auger recombination mechanisms are investigated in the framework of Displacive Phase Transition in Narrow-Gap Semiconductors . Narrow Gap Semiconductors. Proceedings of the Eighth International Conference. Eighth International Conference Shanghai, China, 21 – 24 April 1997. Physics and Properties of Narrow Gap Semiconductors - Google Books Result Tunneling probability calculations through the gap of narrow-gap semiconductors reveal that a large increase in current density near zero bias can be expected . Physics and Properties of Narrow Gap Semiconductors So, for controlling parameters and characteristics of infrared photodiodes on narrow-gap semiconductors through defect engineering, it is essential to . Narrow Gap Semiconductors: Proceedings of the Eighth . 20 Feb 2018 . their microscopic origin, as well as their impact onto thermoelectricity in correlated narrow-gap semiconductors. Members of this class---such Narrow-Gap Semiconductor Photodiodes (2000) Rogalski - SPIE Superconductivity was discovered in the layered compound RbBi<sub>11</sub>/3Te<sub>6</sub>, featuring Bi vacancies and a narrow band gap of 0.25(2) eV at room temperature. Narrow-gap semiconductor - Wikipedia Narrow gap semiconductors obey the general rules of semiconductor science, but often exhibit extreme features of these rules because of the same properties . Phonon softening and metallization of a narrow-gap semiconductor . 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Bate (Eds.), "Physics of Semimetals and Narrow Gap Semiconductors", Pergamon, Oxford (1971), p. 99. Narrow-Gap Semiconductors and Low-Dimensional Structures for . 10 Apr 2018 . We review many-body effects, their microscopic origin, as well as their impact on thermoelectricity in correlated narrow-gap semiconductors. Narrow-Gap Semiconductors Springer Angew Chem Int Ed Engl. 2015 Sep 754(37):10718-32. doi: 10.1002/anie.201503346. Epub 2015 Jul 23. Single-Crystal Semiconductors with Narrow Band Device Physics of Narrow Gap Semiconductors - Google Books Result Narrow-gap semiconductors are semiconducting materials with a band gap that is comparatively small compared to that of silicon, i.e. smaller than 1.11 eV at BC8 Silicon (Si-III) is a Narrow-Gap Semiconductor The physics of narrow-gap semiconductors is an important branch of semiconductor science. Research into this branch focuses on a specific category of Thermoelectricity in correlated narrow-gap semiconductors 5 Dec 2000 . 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Optical-band-gap and charge-transport measurements indicate that these materials are narrow-band-gap semiconductors with electrons acting Infrared Photodiodes on II-VI and III-V Narrow-Gap Semiconductors Semimetals and Narrow Gap Semiconductors. G. A. SAUNDERS. Department of Applied Physics and Electronics,. University of Durham, Science Laboratories, Images for Narrow-gap Semiconductors The mechanism is general and could affect a broad class of materials, including narrow-gap semiconductors, superconductors, heavy-Fermion compounds, and . Enhanced Room-Temperature Geometric . - Rice University Narrow Gap Semiconductors: Proceedings of the 12th International Conference on Narrow Gap Semiconductors - CRC Press Book. Physics and Properties of Narrow Gap Semiconductors Junhao . 23 Jan 2018 . 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