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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 40 pages. Original publisher: Golden, CO : National Renewable Energy Laboratory, 2006 OCLC Number: (OCoLC)225867277 Subject: Minorities in science. Excerpt: . . . therefore, we expected that the green band would decrease as the annealing temperature increased. However, the green band did not significantly change its intensity until the annealing temperature reached 800 C, while the exciton band became weaker. At 900 C, the green band became weak, and the exciton band essentially disappeared. It is possible that the ZnO nanowires have been destroyed at this temperature (900 C), although the melting point of bulk ZnO is T 1975 C. In conclusion, we have fabricated ZnO nanowires on Si substrates by using vapor-liquid-solid (VLS) method or vapor-phase transport process (VPT) by heating the mixture of ZnO and graphite powders in a two-zone furnace. However, the conditions to control the shapes and orientation of ZnO crystals are not so easy a task. Especially, to make suitable ZnO nanowires into high-efficiency solar cells is challenging. We found that the morphology of ZnO NWs changed after being annealed at 800 C. The properties of ZnO nanowires, depending on the ambient temperature, will be important for the applications. If these devices are used in space such as artificial satellites, the temperature dependence and stability of the ZnO nanowires could be an important issue. Acknowledgments This research is supported in part by NREL DOE ACQ-4-33623-03, DOD ARO Contracts of W911NF-05-1-0453, -51-1-0040, -04-1-0400, and NSF-CREST. References 1 H. J. Fan, W. Lee, R. Scholz, A. Dadger, A. Krost, K. Nielsch, and M. Zacharias, Nanotechnology 16, 913 (2005). 2 Y. Xia, P. Yang, Y. Sun, Y. Wu, B. Mayers, B. Gates,...



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