



Oeuvres (13)

By REAP Student Summer Research Program

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 o o 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 o ZnO nanowires have been destroyed at this temperature (900 C), although the melting point o of bulk ZnO is T 1975 C. m 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 o ZnO NWs changed after being annealed at...

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