



Stability of IGZO-based Thin-Film Transistor: Stability and Temperature-Dependence Assessment of IGZO TFTs

By Ken Hoshino, John Wager

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Amorphous oxide semiconductors (AOSs) are of great current interest for thin-film transistor (TFT) channel layer applications. In particular, indium gallium zinc oxide (IGZO) is under intense development for commercial applications because of its demonstrated high performance at low processing temperatures. The objective of the research presented in this book is to provide detailed assessments of device stability, temperature dependence, and related phenomena for IGZO- based TFTs processed at temperatures between 200 °C and 300 °C.

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About the Author

Ken Hoshino received the B.S. degree in electrical engineering in 1999 from Chuo University in Tokyo, Japan and M.S. degree in 2008 from Oregon State University, U.S.A. From 1999 to 2005, he worked for Rohm Co., Ltd. as a circuit design engineer.

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