張正陽教授的著作目錄

Journal paper

2014

1. Teng-Hsiang Chang, Chiao Chang, Yen-Ho Chu, Chien-Chieh Lee, Jenq-Yang Chang, I-Chen Chen, Tomi Li, “Low temperature growth of highly conductive boron-doped germanium thin films by electron cyclotron resonance chemical vapor deposition,” Thin Solid Films, 551 (2014) 53-56.
2. I. C. Chen, P. Y. Lin, T. T. Li, and J. Y. Chang, "Kinetic Study of the Thermal Crystallization Behavior of Hydrogenated Amorphous Silicon Prepared by ECRCVD," Ecs J Solid State Sc 3, N75-N82 (2014).
3. Yen-Ho Chu, Chien-Chieh Lee, Teng-Hsiang Chang, Jenq-Yang Chang, I-Chen Chen, Tomi Li, “Investigation of hydrogenated amorphous silicon as passivation layer by high density plasma,” Thin Solid Films, in press.

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1. Teng-Hsiang Chang, Jenq-Yang Chang, Yen-Ho Chu, Chien-Chieh Lee, I-Chen Chen, Tomi Li, “Investigation of the amorphous to microcrystalline phase transition of thin film prepared by electron cyclotron resonance chemical vapor deposition method,” Surface and Coating Technology, 231 (2013) 604-607.
2. Sheng Fu Lin, Chih Ming Wang, Ya Lun Tsai, Ting Jou Ding, Tsung Hsun Yang, Wen Yih Chen, Song Feng Yehd, Jenq Yang Changa (2013, Jan). A model for fast predicting and optimizing the sensitivity of surface-relief guided mode resonance sensors. Sensors and Actuators B: Chemical, 176, 1197-1203.
3. Wen-Shing Sun, Yan-Nan Lin, Chuen-Lin Tien, Jenq-Yang Chang (2013, Jan). Measurement of multi-directional azimuth and tilt angles using an improved DVD pickup head with a CMOS sensor: A simulation design study. Optics & Laser Technology, 48, 194-199.

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3. C. M. Wang, S. H. Tu, T. K. Juan, S. F. Lin, and J. Y. Chang, “Polarization dependent light extraction of a GaN light emitting diode using dark field angle-resolved photoluminescence spectrometry,” Opt. Express **20**(16), 17952-17961 (2012).
4. Teng-Hsiang Chang, Yen-Ho Chu, Chien-Chieh Lee, Jenq-Yang Chang, “Crystalline Silicon Interface Passivation Improvement with a-$Si_{1-x}C_x$:H and Its Application in Hetero-junction Solar Cells with Intrinsic Layer,” Applied Physics Letter, **101**, 241601 (2012).
5. Wen-Shing Sun, Yan-Nan Lin, Chuen-Lin Tien, Chih-Hsuan Tsuei, Chien-Cheng Kuo, Jenq-Yang Chang (2012, Sep). Compact design for a unitary photo detector and single-path combo optical pickup head for Blu-ray disc, digital versatile disc and compact disc systems. Optics and Lasers in Engineering, 50(9) 1330–1340.

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Conference paper

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1. Teng-Hsiang Chang, Yen-Ho Chu, Jenq-Yang Chang, Chien-Chieh Lee, "Investigation of Amorphous Silicon Carbide Passivation Layers for Hit Solar Cells," PHOTOVOLTAIC TECHNICAL CONFERENCE - THIN FILM &ADVANCED SILICON SOLUTIONS 2013
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4. Teng-Hsiang Chang**,** Chia-Jung Bi, Yen-Ho Chu, Jenq-Yang Chang,Chien-Chieh Lee, I-Chen Chen, Tomi Li, "Highly Conductive Boron-doped Hydrogenated Nanocrystalline Silicon Thin Films Prepared by ECR-CVD," TACT 2013, International Thin Films Conference.
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