List of Publications
Jan 2004 to Dec 2004

Department: ELECTRICAL & COMPUTER ENGINEERING

ARTICLE IN JOURNAL

INTERNATIONAL REFEREED

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1. Ooi, B L, "Modeling of electromagnetic bandgap structure devices tuned by ferrite cylinders". 

2. Maio, Z L, S J Chua*, Y H Chye, P Chen and S Tripathy, "Improvement of self-organized InAs 
   72-76. (Netherlands).

3. Le, H Q, S J Chua*, K P Loh and E Fitzgerald, "The effect of post-annealing treatment on 
   photoluminescence of AnO nanorods prepared by hydrothermal synethesis". Journal of 

4. Yu, XF, Chunxiang Zhu*, MB Yu and DL Kwong, "Improvements on Surface Carrier Mobility 
   and Electrical Stability of MOSFETs Using HfTaO Gate Dielectric". IEEE Transactions on 

5. Ang*, D S, L Liao, T W H Phua and C H Ling, "Evidence for a composite interface state 
   generation mode in the CHE-stressed deep-submicrometer n-MOSFET". IEEE Transactions 

   trapping and breakdown mechanism in HfAlO/TaNi gate stack analyzed using carrier 
   separation". IEEE Transactions on Device and Materials Reliability, 4, no. 4 (2004): 
   696-703. (United States).


8. Li, J, G Mohan, E C Tien and K C Chua, "Dynamic routing with inaccurate link state 
   information in integrated IP-over-WDM networks". Computer Networks - The International 
   (United Kingdom).

   efficiency spindle motor drives for magnetic data storage". IEEE Transactions on 
   Industry Electronics, 51, no. 6 (2004): 1338-1343. (United States).


151. Chen, W.-C., C.-Y. Wu and C LEE*, "Characterization of bi-stable micromechanism based on
buckle spring and electrothermal v-beam actuators". *Japanese Journal of Applied Physics
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152. Sugioka*, Koji, Katsumi Midorikawa, Hiroshi Yamaoka, Yutaka Gomi, Masayoshi Otsuki, MH
Hong, D.J. Wu, L.L. Wong and T C Chong, "Glass microprocessing by laser-induced
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153. Lam*, H.M., MH Hong, S. Yuan and T C Chong, "Growth of beta-Ga2O3 nanoparticles by
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154. Wang, L, WJ McMahon, B Liu, YH Wu* and T C Chong, "Interface or bulk scattering in the
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155. Wang, L, JJ Qiu, WJ McMahon, KB Li and YH Wu*, "Nano-oxide-layer insertion and specular
(United States).

156. Khoh*, A, G S Samudra, YH Wu, T Milster and B I Choi, "Image formation by use of the
gеometrical theory of diffraction". *Journal of the Optical Society of America A - Optics Image

157. Geng*, Y L, X B Wu and L W Li, "Characterization of electromagnetic scattering by a plasma
anisotropic spherical shell". *IEEE Antennas and Wireless Propagation Letters*, 3, no. 6
(2004): 100-103. (United States).

158. Xu*, J X, S K Panda, P Ya-jun, T H Lee and B H Lam, "A Modular Control Scheme for PMSM
with Pulsating Torque Minimization". *IEEE Trans. on Industrial Electronics and Control

159. Zhong, H, Y C Liang* and G S Samudra, "Practical superjunction MOSFET device
performance under given process thermal cycles". *Semiconductor Science and Technology*,

160. Ge*, S S, L Huang* and T H Lee*, "Position Control of Chained Multiple Mass-Spring-Damper
Systems-Adaptive Output Feedback Control Approaches". *International Journal of Control,
Automation and Systems*, 2, no. 2 (2004): 144-155. (South Korea).

(United States).


179. WANG, Y, "Efficient and fast approach for surface wave poles extraction in two-layered microstrip geometry". Microwave and Optical Technology Letters, 41, no. 4 (2004). (United States).


Feng, W. and W K Choi*, "Investigation of thermal effect on electrical properties of Si0.887Ge0.113 and Si0.887-yGe0.113Cy films". *Journal of Applied Physics*, 95 (2004): 4197-4203. (United States).


Lin, C Y, F A Chin*, Y T Hou, M F Li, S P Mcalliste and D L Kwong, "Light emission near 1.3?m using ITO-Al2O3 - Si#sub 0.3#Ge#sub 0.7#-Si tunnel diodes". IEEE Photonics Technology Letters, 16, no. 1 (2004): 36-38. (United States).


441. Veeravalli, B and J Yao, "Divisible Load Scheduling Strategies on Distributed Multi-level Tree Networks with Communication Delays and Buffer Constraints". Computer Communications, 27, no. 1 (2004): 93-110. (United Kingdom). ([SINGARE])


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CONFERENCE PAPER

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ORAL PRESENTATION

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271. Li, XIAORONG and B Veeravalli, "Design, analysis and performance evaluation of stream scheduling algorithms in distributed multimedia systems". 1st Workshop on Streaming Media Distribution over the Internet (2004): 19-26 (1st Workshop on Streaming Media Distribution over the Internet, 1 May 2004)


327. Yang, H, N Sa, L Tang, X Y Liu, J Kang, R Q Han, H Yu, C Ren, M F Li, D S H Chan and D L Kwong, "TDDB characteristics of ultra thin HfN/HfO\textsubscript{2} gate stack". The 7th International Conference on Solid-State and Integrated Circuit Technology (2004): C5.7. China. (The 7th International Conference on Solid-State and Integrated Circuit Technology, 1 Oct 2004)


363. Tan, KC and Y Li, "Evolutionary grey-box modelling for a neutron intensity system". International Conference on Computational Intelligence for Modelling Control and Automation (2004) (International Conference on Computational Intelligence for Modelling Control and Automation, 1 Jan 2004, Gold Coast, Australia)


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422. Chen*, J, W Hwang, W J Yoo* and D S H Chan, "Investigation of etching properties of HfSiO and HfSiON as gate dielectrics". AVS 51st International Symposium (14 - 19 Nov 2004, Anaheim Convention Centre, Anaheim, CA, United States)


426. Wong, W C, "Singapore National Grid and the role of the National Grid Office". 7th Pacific Rim Applications and Grid Middleware Assembly (PRAGMA7) (Invited paper) (15 - 17 Sep 2004, San Diego, San Diego, California, United States)


429. Teo*, K L, Z X Shen and OG Schmidt, "Raman scattering studies of Ge/Si islands under hydrostatic pressure". *Eleventh International Conference on High Pressure Semiconductor Physics* (2 - 5 Aug 2004, Clark Kerr Campus, UC, Berkeley, United States)

430. Teo*, K L, Z X Shen, L Liu, AV Kolobov and Y Maeda, "Raman scattering studies in two kinds of Ge nanosystem under hydrostatic pressure". *Eleventh International Conference on High Pressure Semiconductor Physics* (2 - 5 Aug 2004, Clark Kerr Campus, UC, Berkeley, United States)


436. Wu*, YH, G Han, ZY Liu, KB Li, JJ Qiu and YK Zheng, "High-resolution MFM tips and their applications in imaging magnetic nanostructures". *The 1st Nano-Engineering and Nano-Science Congress 2004* (Invited paper) (7 - 9 Jul 2004, NUS, Singapore)

437. Chen, J, W J Yoo* and D S H Chan, "7th Asia Pacific Conference on Plasma Science and Technology (7th APCPST)". *blank* (29 Jun - 2 Jul 2004, Fukuoka International Congress Center, Fukuoka, Japan)


440. Li, HL and YH Wu*, "Magnetic and transport properties of Fe3O4 nanostructures". The 2004 MRS Spring Meeting (12 - 16 Apr 2004, Moscone West convention center, San Francisco, United States)


442. Qin, ZHENG and G Mohan*, "Multi-layer Protection in IP over WDM Networks with and with no Backup lightpath sharing.". Internation Conference on Communication and Broadbano Networking ICBN 2004. (1 Apr 2004, Japan)

443. Wu*, YH and BJ Yang, "Fabrication of metallic nanoparticles on two-dimensional carbon nano-sheets and their transport and magnetic properties". Particles 2004 (Invited paper) (6 - 9 Mar 2004, Florida Howard Johnson Plaza Hotel, Orlando, United States)


446. Li, KB, JJ Qiu, GC Han, ZB Guo, YK Zheng and YH Wu*, "Oscillation of magnetoresisttance and interlayer exchange coupling with the thickness of metallic cap layer in nano-oxide added synthetic spin valve". 9th Joint MMM-Intermag Conference (5 - 9 Jan 2004, Anaheim marriott, Anaheim, United States)

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448. Chang, C S and CM Kwan*, "Evaluation of evolutionary algorithms for multi-objective train schedule optimization". The 17th Australian Joint Conference on Artificial Intelligence (6 - 10 Dec 2004, Central Queensland University, Cairns, Australia)

450. Sun*, Y, E.P Li and M S Leong, "Simulations of photonic-crystal slabs by a frequency-dependent FDTD formulation". 2004 International Conference on Computational Electromagnetics and Its Applications (1 Nov 2004, Beijing, China)


452. Chang, C S, CW Lim* and Q Su, "Fuzzy-neural approach for dissolved gas analysis of power transformer incipient faults". Australian Universities Power Engineering Conference (26 - 29 Sep 2004, The University of Queensland, Brisbane, Australia)

453. Chang, C S, KH Lee* and C Chang, "Recognition of partial discharge patterns for gas insulated switchgear". Australian Universities Power Engineering Conference (26 - 29 Sep 2004, The University of Queensland, Brisbane, Australia)


466. Guan*, S U and Y Yang, "A Secure Mechanism for Agent Data-Integrity Protection.". International Conference on Advanced Information Networking and Applications (29 Mar 2004, Fukuoka / Kyushu, Japan)


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473. Wang, C C, A O Adeyeye* and YH Wu, "Effect of contact geometry on the magnetoresistance response of Ni#sub 80#Fe#sub 20# antidot array". 49th Conference on Magnetism and Magnetic Materials (7 - 11 Nov 2004, Jacksonville, Florida, United States)


475. Ho, W K, "Temperature control and in-situ fault detection of wafer warpage". -blank- (1 Sep 2004)


477. Hu, N, W Huang and S Ranganath, "Detection of Frequent Change in Focus of Human Attention from Videos". 2nd International Workshop on Attention and Performance in Computational Vision (15 May 2004, Prague, Czech Republic)


SUBMITTED FOR PUBLICATION

POSTER PRESENTATION

PUBLISHED


PRESENTED BUT NOT PUBLISHED
Han, GC, YH Wu*, M Tay, SJ Wang and T C Chong, "Ferromagnetism of Co-doped TiO2 anatase thin films grown by sputtering". 9th Joint MMM-Intermag Conference (5 - 9 Jan 2004, Anaheim Marriott, Anaheim, United States)

PAPER FOR SEMINAR, PUBLIC TALK, LECTURE

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15. Bae, S, "Dielectric breakdown mechanism in TMR read sensor". Korean Institute of Science and Technology (KIST) (2004). South Korea. (Korean Institute of Science and Technology (KIST), 1 Feb 2004, South Korea)


17. Bae, S, "Low junction resistance tunneling magnetoresistance read heads and its electrical reliability". Kwangwoon University (2004). South Korea. (Kwangwoon University, 1 Feb 2004, South Korea)

18. Bae, S, "Electrical reliability of tunneling magnetoresistive read sensor". Korea University (2004). South Korea. (Korea University, 1 Feb 2004, South Korea)


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**EDITORIAL WORK ON JOURNAL**

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@ - indicates journal classification is based on the proposed classification of the author(s)

**CHAPTER IN BOOK**

**PUBLISHED**


ACCEPTED FOR PUBLICATION


UNPUBLISHED REPORT

UNPUBLISHED BUT FINALIZED


OTHERS

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6. Garg, H K, "System and Method for Providing a Service"2004. (This is an Invention Disclosure filed with INTRO. US and PCT patents have been filed.).