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專長：LD 的驅動與 CW 特性量測  
摻鉕光纖放大器的基本特性分析  
摻鉕光纖放大器做主動鎖模光纖雷射(EDFL)的光源製作  
以摻鉕光纖做雷射脈衝放大特性研究  
以內腔半導體光放大器進行 EDFL 的雜訊抑制



國際期刊論文與研討會論文投稿及發表紀錄：

期刊：

1. **Ming-Chung Wu**, Yung-Cheng Chang, and Gong-Ru Lin, "Suppression of Phase and Supermode Noises in a Harmonic Mode-Locked Erbium-Doped Fiber Laser with a Semiconductor Optical Amplifier Based High-Pass Filter" has been accepted by *Opt. Lett.*, May, 2005.
2. Gong-Ru. Lin, I-Hsiang Chiu, and **Ming-Chung Wu**, "1.2-ps mode-locked semiconductor optical amplifier fiber laser pulses generated by 60-ps backward dark-optical comb injection and soliton compression," *Opt. Express*, vol. 13, pp. 1008-1014, 2005.

研討會：

1. **Ming-Chung Wu**, Yung-Cheng Chang and Gong-Ru Lin, "Comparison on the noise and jitter characteristics of harmonic injection-locked and mode-locked erbium-doped fiber lasers", Conference of Passive Components and Fiber-Based Devices, *Asia-Pacific Optical and Wireless Communications Conference and Exhibit (APOC 2004)*, Beijing, China, 7-11 November, 2004.
2. **Ming-Chung Wu**, Yung-Cheng Chang and Gong-Ru Lin, "Suppression of Supermode and Phase Noises in Mode-Locked Erbium-Doped Fiber Laser with a Semiconductor Optical Amplifier Based High-Pass Filter", *Photonics West, Symposia: Fiber Lasers II: Technology, Systems, and Applications*, San Jose, California, 22-27 January 2005.
3. **Ming-Chung Wu**, Yung-Cheng Chang and Gong-Ru Lin, "Phase Noise and Supermode Suppression in Harmonic Mode-Locked Erbium-Doped Fiber Laser with a Semiconductor Optical Amplifier Based High-Pass Filter", *Optical Fiber Communication (OFC 2005)*, Session title: OFJ - Pulsed Lasers, Anaheim, California, 6-11 March, 2005.

4. **Ming-Chung Wu**, Yung-Cheng Chang, Gong-Cheng Lin, Jy-Wang Liaw and Gong-Ru Lin\*, "Suppression of phase noise and supermode noise in harmonic mode-locked erbium-doped fiber laser using semiconductor optical amplifier", *Conferent of Optics and Photonics/Taiwa'(OPT) 04*, paper, Taipei, Taiwan, December 18-19, 2004.
5. I-Hsiang Chiu, **Ming-Chung Wu**, Zu-De Gong, Gong-Cheng Lin, Jy-Wang Liaw and Gong-Ru Lin\*, "1.8-ps Mode-Locked Semiconductor Optical Amplifier Fiber Laser Pulse Generated by 60-ps Backward Optical Dark Pulse Injection", *Conferent of Optics and Photonics/Taiwa'(OPT) 04*, paper, Taipei, Taiwan, December 18-19, 2004.
6. I-Hsiang Chiu, **Ming-Chung Wu**, Gong-Ru Lin, "Generation of 1.8-ps Mode-Locked Semiconductor Optical Amplifier Fiber Laser pulses by 60-ps Backward Optical Dark Comb Injection ", *IEEE/LEOS International Conference on Laser and Electro-Optics Society Annual Meeting (CLEO 2005)*, post presentation, Baltimore, Maryland, USA, May 22-27, 2005.
7. Gong-Ru Lin\*, Yung-Cheng Chang, and **Ming-Chung Wu**, "A Pulse-Compressed and Harmonic Mode-Locked SOA-EDFA Laser Link with Suppressed Phase and Supermode Noises", *Quantum Electronics 2005 and Pacific Rim Conference on Lasers and Electro-Optics (CLEO-PR 2005)*, paper, July 11-15 at Toshi Center Kaikan, Tokyo, Japan.