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Ning Hsu, Ph.D. Student, Optical Science and Engineering

Education

- Jan 2014 – present* **University of New Mexico**
Ph.D. student, Optical Science and Engineering
Albuquerque, New Mexico, United States
- Jan 2014 – Jul 2016* **University of New Mexico**
Master of Science, Optical Science and Engineering
Albuquerque, New Mexico, United States
- Sep 2011 – Jul 2012* **National Central University**
Master of Science, Department of Optics and Photonics
Taoyuan City, Taiwan
- Sep 2007 – Jul 2011* **National Central University**
Bachelor of Science, Department of Optics and Photonics
Taoyuan City, Taiwan

Research Experience

- Jan 2014 – present* **Research Assistant**
University of New Mexico, Department of Physics & Astronomy
Albuquerque, United States
- Jul 2013 – Oct 2013* **Research Assistant**
Academia Sinica, Research Center for Applied Sciences
, Taiwan
- Sep 2010 – Jul 2012* **Master's Student**
National Central University, Department of Optics and Photonics
Taoyuan City, Taiwan

Statistics

RG Score 9.63
Publications 10

Reads 71

Citations 18

Awards & Grants

Feb 2017 Award: UNM Student Conference Award Program (S-CAP)

Mar 2015 Award: UNM GPSA Professional Development Grant (PDG)

May 2014 Award: UNM Student Conference Award Program (S-CAP)

Skills & Activities

Skills Nonlinear Optics, Optics and Photonics, Optoelectronics, Optics and Lasers, Integrated Optics, Femtosecond Lasers

Languages Chinese, English

Scientific Memberships OSA
IEEE

Journal Publications

Y H Chen, W K Chang, **N Hsu**, C Y Chen, J W Chang: *Internal Q-switching and self-optical parametric oscillation in a two-dimensional periodically poled Nd:MgO:LiNbO₃ laser*. *Optics Letters* 07/2012; 37(14)., DOI:10.1364/OL.37.002814

Jui-Yu Lai, Cheng-Wei Hsu, **Ning Hsu**, Yen Hung Chen, Shang-Da Yang: *Hyperfine aperiodic optical superlattice optimized by iterative domino algorithm for phase-matching engineering*. *Optics Letters* 04/2012; 37(7)., DOI:10.1364/OL.37.001184

Yen-Hung Chen, Jui-Wen Chang, Chao-Hung Lin, Wei-Kun Chang, **Ning Hsu**, Ying-Yu Lai, Quan-Hsiang Tseng, Reinhard Geiss, Thomas Pertsch, Sidney S Yang: *Spectral narrowing and manipulation in an optical parametric oscillator using periodically poled lithium niobate electro-optic polarization-mode converters*. *Optics Letters* 06/2011; 36(12)., DOI:10.1364/OL.36.002345

Conference Proceedings

Ning Hsu and Jean-Claude Diels: *How short should your nonlinear crystal be for pulse diagnostic?* Lasers and Electro-Optics (CLEO), 2017 (accepted)

Ning Hsu, Jean-Claude Diels: *Single shot diagnostic of ultrashort pulses applied to optical parametric oscillator*. Photonics West 2017, The Moscone Center San Francisco, California, United States; 01/2017

- Hung-Pin Chung, W.K. Chang, **N. Hsu**, C.Y. Chen, J.W. Chang, Y.H. Chen: *Internal Q-switching and self-optical parametric oscillation in a two-dimensional periodically poled Nd: MgO: LiNbO3 laser..* Optics & Photonics Taiwan, International Conference 2012, Taipei, Taiwan; 12/2012
- Jui-Yu Lai, Cheng-Wei Hsu, **Ning Hsu**, Yen Hung Chen, Shang-Da Yang: *Arbitrary complex phase-Matching spectral grid designed by iterative domino method.* Lasers and Electro-Optics (CLEO), 2012 Conference on; 01/2012, DOI:10.1364/CLEO_AT.2012.JW4A.32
- J.W. Chang, Q.H. Tseng, W.K. Chang, **Ning Hsu**, Yen-Hung Chen: *APPLN electro-optic Bragg Q-switch in a dual-wavelength Nd:YVO4 laser for pulsed orange generation.* Lasers and Electro-Optics (CLEO), 2012 Conference on; 01/2012, DOI:10.1364/CLEO_SI.2012.CTh3B.1
- W.K. Chang, C.Y. Chen, **Ning Hsu**, J.W. Chang, Yen-Hung Chen: *2D Nd:MgO:PPLN for Simultaneous Laser Generation, Q-Switching, and Optical Parametric Oscillation.* Lasers and Electro-Optics (CLEO), 2012 Conference on; 01/2012, DOI:10.1364/CLEO_SI.2012.CTh3B.4
- Yen-Hung Chen, Jui-Wen Chang, Ying-You Lai, Wei-Kun Chang, **Ning Hsu**, Quan-Hsiang Tseng, Reinhard Geiss, Thomas Pertsch: *Spectral Narrowing and Manipulation in Optical Parametric Oscillator Using APPLN Electro-optic Polarization-mode Converter.* DOI:10.1364/CLEO_SI.2011.CMR4