

JOURNAL PUBLICATIONS

1. Xiang Guo, Chang-Ling Zou, Carsten Schuck, **Hojoong Jung**, Risheng Cheng, and Hong Tang, "Parametric down-conversion photon-pair source on a nanophotonic chip," *Light : Science & Applications*, accepted
2. Xiang Guo, Chang-Ling Zou, **Hojoong Jung**, and Hong X. Tang, "On-Chip Strong Coupling and Efficient Frequency Conversion between Telecom and Visible Optical Modes," *Phys. Rev. Lett.* **117**, 123902 (2016)
3. **Hojoong Jung**, Xiang Guo, Na Zhu, Scott B. Papp, Scott A. Diddams, and Hong X. Tang, "Phase-dependent interference between frequency doubled comb lines in a $X^{(2)}$ phase-matched AlN microring," *Optics Letters*, **41**, 3747 (2016).
4. **Hojoong Jung** and Hong X. Tang, "Aluminum nitride as nonlinear optical material for on-chip frequency comb generation and frequency conversion," *Nanophotonics*, **5**, 263 (2016)
5. **Hojoong Jung**, Menno Poot, and Hong X. Tang, "In-resonator variation of waveguide cross-sections for dispersion control of aluminum nitride micro-rings," *Optics Express*, **23**, 30634 (2015).
6. **Hojoong Jung**, Rebecca Stoll, Xiang Guo, Debra Fischer, and Hong X. Tang, "Green, red, and IR frequency comb line generation from single IR pump in AlN microring resonator," *Optica*, **1**, 396 (2014).
7. **Hojoong Jung**, King Y. Fong, Chi Xiong, and Hong X. Tang "Electrical tuning and switching of optical microcomb generated in aluminum nitride micro-ring resonators", *Optics Letters*, **39**, 84 (2014).
8. Pao Tai Lin*, **Hojoong Jung***, Lionel C. Kimerling, Anu Agarwal, and H. Tang, "Low-loss aluminum nitride thin film for mid-infrared microelectronics," *Laser & Photonics Reviews*, **8**, L23 (2014). (*co-first author)
9. **Hojoong Jung**, Chi Xiong, King Y. Fong, Xufeng Zhang, and H. Tang "Optical frequency comb generation from aluminum nitride microring resonator," *Optics Letters*, **38**, 2810 (2013),
10. **Hojoong Jung**, Yong Gon Seo, Woosung Ha, Dae-Kyu Kim, Seung Han Park, and Kyunghwan Oh, "Mask-free hybrid long-period fiber grating fabrication by self-assembled periodic polymerization in silica hollow optical fiber," *Optics Letters*, **34**, 2745 (2009). (Selected in the Virtual Journal of Nanoscale Science & Technology (AIP, APS)).
11. **Hojoong Jung**, Woojin Shin, Jun Ki Kim, Seung-Han Park, Do-Kyeong Ko, Jongmin Lee and Kyunghwan Oh, "Bending and Strain Sensitivities in a Helicoidal Long-Period Fiber Gratings," *IEEE Photonics Technology Letters*, **21**, 1232 (2009).
12. Sejin Lee, Jiyoung Park, Yoonseob Jeong, **Hojoong Jung**, and Kyunghwan Oh, "Guided Wave Analysis of Hollow Optical Fiber for Mode Coupling Device Applications," *IEEE J. Lightwave Technol.* **27**, 4919 (2009).
13. Sun Young Choi, Fabian Rotermund, **Hojoong Jung**, Kyunghwan Oh, and Dong Il Yeom, "Femtosecond mode-locked fiber laser employing a hollow optical fiber filled with carbon nanotube dispersion as saturable absorber," *Optics Express*, **17**, 21788, (2009).

PATENT

1. Kyunghwan Oh, **Hojoong Jung**, Yong Gon Seo, "Optical fiber comprising Long-period Fiber Grating, and preparation method thereof," Patent, 1010792360000, Oct. 2011, South Korea.