

Publications List

Refereed papers

1. K. McGarvey-Lechable and **P. Bianucci**, “Slow light in mass-produced photonic crystal ring resonators”, *submitted*, (2016)
2. H. Ghali, H. Chibli, J. L. Nadeau, **P. Bianucci**, and Y.-A. Peter, “Real-time detection of *Staphylococcus Aureus* using whispering gallery mode optical microdisks”, *Biosensors* **6**, 20 (2016)
3. K. McGarvey-Lechable* and **P. Bianucci**, “Maximizing slow-light enhancement in one-dimensional photonic crystal ring resonators”, *Optics Express* **22**, 26032 (2014)
4. M. H. Tavakoli-Dastjerdi, M. Djavid, S. Arafin, X. Liu, **P. Bianucci**, Z. Mi, and P. J. Poole, “Optically pumped rolled-up InAs/InGaAsP quantum dash lasers at room temperature”, *Semiconductor Science and Technology* **28**, 094007 (2013)
5. **P. Bianucci**, S. Mukherjee, M. H. Tavakoli-Dastjerdi, P. J. Poole, and Z. Mi, “InGaAsP/InAs quantum dot microtube lasers”, *Applied Physics Letters* **101**, 031104 (2012)
6. Z. Tian, P. Bianucci, P. J. R. Roche, M. H. Tavakoli-Dastjerdi, Z. Mi, P. J. Poole, A. G. Kirk, and D. V. Plant, “Dynamical thermal effects in InGaAsP microtubes at telecom wavelengths”, *Optics Letters* **37**, 2712 (2012)
7. Z. Mi, and **P. Bianucci**, “When self-organized In(Ga)As/GaAs quantum dot heterostructures roll up: Emerging devices and applications”, *Current Opinion in Solid State and Materials Science* **16**, 52 (2012)
8. Z. Tian, V. Veerasubramanian, **P. Bianucci**, Z. Mi, A. G. Kirk, and D. V. Plant, “Selective polarization mode excitation in InGaAs/GaAs microtubes”, *Optics Letters* **36**, 3506 (2011)
9. Z. Tian, V. Veerasubramanian, **P. Bianucci**, S. Mukherjee, Z. Mi, A. G. Kirk, and D. V. Plant, “Single rolled-up InGaAs/GaAs quantum dot microtubes integrated with silicon-on-insulator waveguides”, *Optics Express* **19**, 12164 (2011)
10. **P. Bianucci**, Y.-Y. Zhi, F. Marsiglio, J. Silverstone and A. Meldrum, “Microcavity effects in ensembles of silicon quantum dots coupled to high-Q resonators”, *physica status solidi (a)* **208**, 639 (2011)

Refereed conference proceedings

1. Z. Mi, **P. Bianucci**, F. Li, Z. Tian, V. Veerasubramanian, A. G. Kirk and D. V. Plant, “Self-organized InAs quantum dot tube lasers and integrated optoelectronics on Si”, *Proc. SPIE* **7943**, 79431C (2011)

Book chapters

1. **P. Bianucci**, M. H. Tavakoli Dastjerdi, M. Djavid, and Z. Mi *Rolled-Up Semiconductor Tube Optical Cavities*, “High-Speed Photonics Interconnects” L. Chrostowski, K. Iniewski (Eds.), CRC Press, April 2013.