

## James F. Young: Partial Publication List

### Journal Articles

Over 64 articles, listed below are those from 1990 forward; full list available on request

- "Laser-Induced reshaping of metallodielectric nanoshells under femtosecond and nanosecond plasmon resonant illumination," C. M. Aguirre, C. E. Moran, J. F. Young, N. J. Halas, *J. Phys. Chem. B* **108**, 7040–7045 (2004).
- "A planar waveguide-based spectral encoding system: A feasibility study," C. D. Babich, J. F. Young, C.-H. Lee, and Y. J. Chen, submitted 7/14/04 to *IEEE Journal of Selected Topics in Quantum Electronics*.
- "Modulation of retinal pigment epithelial cell function by chemical micropatterning of material surfaces," L. Liu, L. Kam, M. Hasenbein, K. Nyalakonda, R. Bizios, A. Göpferich, J. F. Young, and A. G. Mikos, *Biomaterials* **20**, 2351–2361 (1999).
- "Planar lightwave circuit design for programmable complementary spectral keying encoder and decoder," C.-H. Lee, S. Zhong, X. Lin, J. F. Young, and Y. J. Chen, *Electronics Letters* **35**, 1813–1815 (1999).
- "Measurements of BER performance for bipolar encoding of an SFS," T. Dennis and J. F. Young, *Journal of Lightwave Technology* **17**, 1542–1546 (1999).
- "Optical implementation of bipolar codes," T. Dennis and J. F. Young, *IEEE Journal of Quantum Electronics* **35**, 287–291 (1999).
- "Experimental demonstration of bipolar codes for optical spectral amplitude CDMA communication," L. Nguyen, T. Dennis, B. Aazhang, and J. F. Young, *Journal of Lightwave Technology* **15**, 1647–1653 (1997).
- "Imaging characteristics of poly(methyl methacrylate) at vacuum ultraviolet wavelengths," I. E. Ferincz, C. Tóth, and J. F. Young, *Journal of Vacuum Science and Technology B* **15**, 828–832 (1997).
- "Photoelectric current distribution and bit error rate in optical communication systems using a superfluorescent fiber source," L. Nguyen, J. F. Young, and B. Aazhang, *Journal of Lightwave Technology* **14**, 1455–1466 (1996).
- "Comparison of laser-produced plasma target materials for pumping the 109 nm Xe Auger laser," T. Dennis, H. M. Duiker, J. Wu, C. Tóth, and J. F. Young, *IEEE Journal of Selected Topics in Quantum Electronics* **1**, 867–871 (1995).
- "All-Optical CDMA with bipolar codes," L. Nguyen, B. Aazhang, and J. F. Young, *Electronics Letters* **31**, 469–470 (1995).
- "A reasonably practical XUV laser for applications," T. S. Clement, C. Tóth, J. Wu, and J. F. Young, *IEEE Journal of Quantum Electronics* **30**, 2136–2140 (1994).
- "Optical gain in the ionic excimer  $\text{Cs}^{2+}\text{F}^-$  excited by soft x-rays from a laser-produced plasma," C. Tóth, J. F. Young, and R. Sauerbrey, *Optics Letters* **18**, 2120–2122 (1993).
- "Studies of a 96.9 nm laser in neutral cesium," C. P. J. Barty, G. Y. Yin, J. E. Field, D. A. King, K. H. Hahn, J. F. Young, and S. E. Harris, *Physical Review A* **46**, 4286–4296 (1992).
- "0.5-TW, 125-fs Ti:Sapphire laser," J. D. Kmetec, J. J. Macklin, and J. F. Young, *Optics Letters* **16**, 1001–1003 (1991).
- "116-nm  $\text{H}_2$  laser pumped by a traveling-wave photoionization electron source," S. J. Benerofe, G. Y. Yin, C. P. J. Barty, J. F. Young, and S. E. Harris, *Physical Review Letters* **66**, 3136–3139 (1991).
- "A 2 Hz 109 nm mirrorless laser," M. H. Sher, S. J. Benerofe, J. F. Young, and S. E. Harris, *Journal of the Optical Society of America B* **8**, 114–116 (1991).

## Patents

- U.S. Patent No. 5,760,941, J. F. Young, B. Aazhang, and L. Nguyen, "System and Method for Performing Optical Code Division Multiple Access Communication using Bipolar Codes," 2 June 1998.
- U.S. Patent No. 4,802,183, S. E. Harris and J. F. Young, "Microwave Excited Excimer Laser and Method," 31 January 1989.

## Contributions in Books and Proceedings

*Partial list; full list available on request.*

- "Laser-Produced Plasmas as Short Wavelength, Incoherent Optical Sources," J. F. Young, in *Atomic, Molecular, and Optical Physics: Electromagnetic Radiation*, F. B. Dunning and R. G. Hulet, Eds., Chapter 1 (Academic Press, 1997).
- "All-Optical Encoders and Decoders for Spectral CDMA using Bipolar Codes," T. Dennis and J. F. Young, in *All-Optical Networking: Architecture, Control, and Management Issues*, vol. 3531, J. M. Senior and C. Qiao, Eds. (SPIE Proceedings, 1998).
- "Vacuum ultraviolet optical microscopy," J. F. Young, H. M. Duiker, I. Ferincz, and T. Dennis, in *National Science Foundation Forum on Optical Science and Engineering*, vol. 2524, L. Goldberg, Ed. (SPIE Proceedings, 1995), pp. 201-207.

## Miscellaneous Publications and Presentations

*Partial list; full list available on request.*

- "Dependence of performance of a waveguide spectral encoding/decoding system on its planar element parameters," C. D. Babich, J. F. Young, C-H Lee, and Y. J. Chen, at the OSA Topical Meeting on Integrated Photonics Research, San Francisco, CA, June 2004.
- "Fiber Optical Communications," J. F. Young, invited talk at 3M Research Center, Austin, TX, October 2001.
- "Wavelength Shift Keying Technique to Reduce Four-Wave Mixing Crosstalk in WDM," C. Xiang and J. F. Young, at the *IEEE Lasers and Electro-Optics Society 1999 Annual Meeting*, San Francisco, CA, November 1999.
- "Performance Modeling of a Planar Waveguide Based Spectral Encoding System," C. D. Babich and J. F. Young, at the *IEEE Lasers and Electro-Optics Society 1999 Annual Meeting*, San Francisco, CA, November 1999.
- "Wavelength Shift Keying Technique to Reduce Four-Wave Mixing Crosstalk in WDM," C. Xiang and J. F. Young, at the *Rice Quantum Institute Thirteenth Research Colloquium*, Houston, TX, August 1999.
- "Performance Modeling of a Planar Waveguide Based Spectral Encoding System," C. D. Babich, at the *Rice Quantum Institute Thirteenth Research Colloquium*, Houston, TX, August 1999.
- "Wavelength Encoding for Optical Networks," T. Dennis and J. F. Young, at the *International Conference on Applications of Photonic Technology*, Ottawa, Canada, July 1998 (Invited).
- "Demonstration of All-Optical CDMA with Bipolar Codes," T. Dennis, B. Aazhang, and J. F. Young, at the *IEEE Lasers and Electro-Optics Society Annual Meeting*, San Francisco, CA, November 1997.
- "Wavelength Encoding to Reduce Four-Wave Mixing Crosstalk in Multi-Wavelength Channels," Y. Guo, B. Aazhang, and J. F. Young, at the *IEEE Lasers and Electro-Optics Society Annual Meeting*, San Francisco, CA, November 1997.
- "Study of the Spatial Coherence of the VUV Xe<sup>2+</sup> Auger Laser by Holographic Imaging," C. Toth, I. Ferincz, and J. F. Young, at the *IEEE Lasers and Electro-Optics Society Annual Meeting*, Boston, MA, November 1996.
- "Experimental Demonstration of Bipolar Codes for Direct Detection Multi-User Optical Communication," T. Dennis, L. Nguyen, B. Aazhang, and J. F. Young, at the *IEEE/LEOS 1996*

- Summer Topical Meeting: Broadband Optical Networks - Enabling Technologies and Applications*, Keystone, CO, August 1996.
- “High Resolution Contact Imaging in the Vacuum Ultraviolet,” A. W. Horton, T. Cs, and J. F. Young, at the *Rice Quantum Institute Research Colloquium*, Houston, TX, August 1996.
- “Characterization of Optical ASE Sources for Communications,” N. Nguyen, B. Aazhang, and J. F. Young, at the *Ninth Annual Rice Quantum Institute Research Colloquium*, Houston, TX, August 1995.
- “VUV Sensitivity of Polymer Films for High Resolution Microscopy,” I. Ferincz and J. F. Young, at the *Ninth Annual Rice Quantum Institute Research Colloquium*, Houston, TX, August 1995.
- “Vacuum Ultraviolet Optical Microscopy,” J. F. Young, H. M. Duiker, I. Ferincz, and T. Dennis, at the *SPIE 40th Annual Meeting*, San Diego, CA, July 1995 (Invited).