

## TECHNICAL PUBLICATIONS in REFEREED JOURNAL:

- “Nanoscale patterning in high resolution HSQ photoresist by interferometric lithography with table top EUV lasers”. P. W. Wachulak, M.G. Capeluto, M. C. Marconi, D. Patel, C. S. Menoni, J.J. Rocca. Journal of Vacuum Science and Technology B, In press
- [\[pdf\]](#) “Volume extreme ultraviolet holographic imaging with numerical optical sectioning”. P. W. Wachulak, M.C. Marconi, R. A. Bartels, C. S. Menoni, J.J. Rocca. Optics Express **15**, 10622-10628, (2007).
- [\[pdf\]](#) “Patterning of nano-scale arrays by table top extreme ultraviolet laser interferometric lithography”. P.W. Wachulak, M.G. Capeluto, M.C. Marconi, C.S. Menoni, J.J. Rocca. Optics Express, **15**, 3465, (2007).
- [\[pdf\]](#) “Table Top Nanopatterning with Extreme Ultraviolet laser Illumination”. M.G. Capeluto, P. Wachulak, M.C. Marconi, D. Patel, C.S. Menoni, J.J. Rocca, C. Lemmi, E.H. Anderson, W. Chao, D.T. Attwood. Microelectronics Engineering, **84**, 721–724, (2007)
- [\[pdf\]](#) “Sub 400 nm spatial resolution extreme ultraviolet holography with a table top laser”. P. W. Wachulak, R. A. Bartels, M. C. Marconi, C. S. Menoni, J.J. Rocca, Y. Lu, B. Parkinson. Optics Express **14**, 9636 (2006).
- [\[pdf\]](#) “Prediction and observation of tin and silver plasmas with index of refraction greater than one in the soft X-ray range”. J. Filevich, J. Grava, M. Purvis, M.C. Marconi, J.J. Rocca, J. Nielsen, J. Dunn, W.R. Johnson. Physical Review E, **74**, 016404, (2006)
- [\[pdf\]](#) “Sub-38 nm resolution table-top microscopy using 13 nm wavelength laser light”. G. Vaschenko, C. Brewer, F. Brizuela, Y. Wang, M.A. Larotonda, B.M. Luther, M.C. Marconi, J.J. Rocca, C.S. Menoni, E.H. Anderson, W. Chao, B.D. Harteneck, J.A. Liddle, Y. Liu, D. T. Attwood. Optics Letters, **31**, 1214, (2006)
- [\[pdf\]](#) “Continuous high repetition rate operation of collisional soft X-ray lasers using solid targets”. A. Weith, M.A. Larotonda, Y. Wang, B.M. Luther, D. Alessi, M.C. Marconi, J.J. Rocca. Optics Letters, **31**, 1994, (2006).
- [\[pdf\]](#) “Observation of multiply ionized plasmas with dominant bound electron contribution to the index of refraction”. J. Filevich, J.J. Rocca, M.C. Marconi, S.J. Moon, J. Nielsen, J.H. Scofield, J. Dunn, R.F. Smith, R. Keenan, J.R. Hunter, V.N. Shlyaptsev. Journal of Quantitative Spectroscopy and Radiative Transfer, **99**, 165-174, (2006).
- [\[pdf\]](#) “Capillary discharge-driven metal vapor plasma waveguides”. Y. Wang, B. M. Luther, M. Berrill, M. Marconi, F. Brizuela, J.J. Rocca. Physical Review E. **72**, 026413, (2005)
- [\[pdf\]](#) “Nanopatterning with interferometric lithography using a compact  $\lambda= 46.9$  nm laser”. M. G. Capeluto, G. Vaschenko, M. Grisham, M. C. Marconi, S. Ludueña, L. Pietrasanta, Y. Lu, B. Parkinson, C. S. Menoni, and J. J. Rocca. IEEE Transactions on Nanotechnology, **5**, 3 (2006).
- [\[pdf\]](#) “Plasma conditions for improved energy coupling into the gain region of the Ni-like Pd transient collisional X-ray laser”. R.F. Smith, J. Dunn, J. Filevich, S. Moon, J. Nielsen, R. Keenan, V.N. Shlyaptsev, J.J. Rocca, J.R. Hunter, M.C. Marconi. Phys. Rev. E **72**, 036404, (2005)
- [\[pdf\]](#) “Nano-imaging with a compact extreme ultraviolet laser”, G. Vaschenko, F. Brizuela, C. Brewer, M. Grisham, H. Mancini, C.S. Menoni, M.C. Marconi, J.J. Rocca, W. Chao, A. Liddle, E. Anderson, D. Attwood, A.V. Vinogradov, I.A. Artiukov, Y.P. Pershyn and V.V. Kondratenko, Optics Letters, **30**, 2095, (2005).
- [\[pdf\]](#) “Picosecond 14.7 nm Interferometry of High Intensity Laser-Produced Plasmas”. J. Dunn, J. Filevich, R. F. Smith, S.J. Moon, J. J. Rocca, R. Keenan, J. Nielsen, V. N. Shlyaptsev, J. R. Hunter, A. Ng, and M. C. Marconi, Lasers and Particle beams **23** (1), 9-13 (2005).
- [\[pdf\]](#) “Reflection Mode Imaging with Nanoscale Resolution using a Compact Extreme Ultraviolet Laser”. F. Brizuela, G. Vaschenko, C. Brewer, M. Grisham, C.S. Menoni, M.C. Marconi, J.J. Rocca, W. Chao, J.A. Liddle, E.H. Anderson, D.T. Attwood, A.V. Vinogradov, I.A. Artiukov, Y.P. Pershing and V.V. Kondratenko. Optics Express **13**, 3983-3988, (2005).
- [\[pdf\]](#) “Observation of a multiple ionized plasma with index of refraction greater than one”.

- J. Filevich, J.J. Rocca, M.C. Marconi, S.J. Moon, J. Nielsen, J.H. Scofield, J. Dunn, R.F. Smith, R. Keenan, J.R. Hunter and V.N. Shlyaptsev. *Physical Review Letters* **94**, 035005, (2005).
- [\[pdf\]](#) "Saturated high repetition rate 18.9 nm table top laser in Ni-like Mo". B.M. Luther, Y. Wang, M.A. Larotonda, D. Alessi, M. Berrill, M. Marconi, J.J. Rocca, V.N. Shlyaptsev. *Optics Letters*, **30**, 165, (2005).
  - [\[pdf\]](#) "Dense Capillary Discharge Plasma Waveguide Containing Ag Ions". Y. Wang, B.M. Luther, F. Pedacci, M. Berrill, F. Brizuela, M. Marconi, M.A. Larotonda, V.N. Shlyaptsev, and J.J. Rocca, *IEEE Transactions on Plasma Science*, **33**, 584, (2005).
  - [\[pdf\]](#) "Highly ionized Ar plasma waveguides generated by a fast capillary discharge". B.M. Luther, Y. Wang, M. Berrill, D. Alessi, M.C. Marconi, M.A. Larotonda, and J.J. Rocca. *IEEE Transactions on Plasma Science*, **33**, 582, (2005).
  - [\[pdf\]](#) "Characteristics of a Saturated 18.9 nm Tabletop Laser Operating at 5 Hz Repetition Rate". M.A. Larotonda, B. M. Luther, Y. Wang, Y. Liu, D. Alessi, M. Berrill, A. Dummer, F. Brizuela, C. S. Menoni, M. C. Marconi, V. N. Shlyaptsev, J. Dunn, and J. J. Rocca, **(Invited)** *IEEE Journal of Selected Topics in Quantum Electronics*, **10**, 1363-1367, (2004).
  - [\[pdf\]](#) "Thermal patterning of superconducting films". M. Tortarolo, H. Ferrari, M.C. Marconi and V. Bekeris. *Physica C*, 408/410, 599, (2004).
  - [\[pdf\]](#) "Soft X-Ray Laser Diagnostics of Exploding Aluminum Wire Plasmas". E.C. Hammarsten, B. Szapiro, E. Jankowska, J. Filevich, M. C. Marconi, J. J. Rocca. *Applied Physic B* 78, 933-937, (2004)
  - [\[pdf\]](#) "Scanning mechanism based on a programmable liquid crystal display". M.G. Capeluto, C. La Mela, C. lemmi, M. C. Marconi. *Optics Communications*, 232, 107-113, (2004).
  - [\[pdf\]](#) "Guiding of intense laser beams in highly ionized plasma columns generated by a fast capillary discharge". B. M. Luther, Y. Wang, M.C. Marconi, J.L.A. Chilla, M. A. Larotonda, and J.J. Rocca. *Physical Review Letters* 92, 235002, (2004)
  - [\[pdf\]](#) "Picosecond resolution soft X-ray laser plasma interferometry". J. Filevich, J.J. Rocca, M.C. Marconi, R.F. Smith, J. Dunn, R. Keenan, J.R. Hunter, J. Nielsen, A Ng, V.N. Shlyaptsev. *Applied Optics* **43**, 3938, (2004).
  - [\[pdf\]](#) "Extremely compact soft X-ray lasers based on capillary discharges". Rocca JJ, Filevich J, Hammarsten EC, Jankowska E, Benware B, Marconi MC, Luther B, Vinogradov A, Artiukov I, Moon S, Shlyaptsev VN. *Nuclear Instruments & Methods*. 507 (1-2): 515-522 (2003)
  - [\[pdf\]](#) "Two dimensional effects in laser created plasmas measured with soft X ray laser interferometry". J.J. Filevich, J.J. Rocca, E. Jankowska, E.C. Hammarsten, K. Kanizay, M.C. Marconi, S.Moon and V.N. Shlyaptsev. *Physical Review. E* 67, 056409 (2003).
  - [\[pdf\]](#) "Application of extremely compact capillary discharge soft x-ray lasers to dense plasma diagnostics", (Invited Paper). J.J. Rocca, E.C. Hammarsten, E. Jankowska, J. Filevich, M.C. Marconi, S. Moon, and V.N. Shlyaptsev, *Physics of Plasma*, 10 (5), 2031, (2003).
  - [\[pdf\]](#) "Refraction effects on x-ray laser-produced plasmas". R.F.Smith, J.Dunn, J.Nielsen, J.R.Hunter, V.N.Shlyaptsev, J.J.Rocca, J.Filevich, M.C.Marconi, *Journal of the Optical Society of America B*, 20 (1): 254-259 (2003).
  - [\[pdf\]](#) "Picosecond X-ray laser interferometry of dense plasmas". R.F. Smith, J. Dunn, J. Nielsen, V.N. Shlyaptsev, S. Moon, J. Filevich, J.J. Rocca, M.C. Marconi, J.R. Hunter, T.W. Barbee. *Physical Review Letters*, 89, 65004, 2002.
  - [\[pdf\]](#) "Table-Top Soft X-Ray Laser Interferograms of dense laser created plasmas". E. Jankowska, E Hammerstein, J. Filevich, M Marconi and JJ Rocca. *IEEE Transactions on Plasma Science*, 30, 46, 2002
  - [\[pdf\]](#) "Bistability in Kerr lens mode locked Ti:Sapphire lasers." M.G. Kovalsky, A.A. Hnilo, A. Libertun and M. C. Marconi. *Optics Communications*, 192, 333-338, 2001.
  - "Dense plasma interferometry with a tabletop soft X-ray laser and an amplitude division interferometer based on diffraction gratings". Filevich, J., Marconi, M.C., Kanizay, K., Chilla, J.L.A. and Rocca, J.J.. *Journal de Physique IV*, 11 (PR2), pp 483-486, 2001

- "Applications of high repetition rate tabletop soft X-ray lasers become a reality in several fields". Rocca, J.J., Seminario, M., Frati, M., Benware, B.R., Mancini, H.L., Filevich, J., Marconi M.C., Kanizay, K., Ozols, A., Artiukov, I.A. and Vinogradov, A.V. and Uspenskii, Y.A., Tomasel, F.G., Shlyaptsev, V.N., Journal de Physique IV, 11 (PR2), pp 459--468 [2001]
- [\[pdf\]](#) "Ultra-fast dynamics in Coumarin 153 obtained by differential fluorescence". J. Torga, M.C. Marconi, C. García-Segundo and M. Villagrán-Muniz. Optics Communications, 195, 215-219. 2001.
- "Capillary discharge tabletop soft X-ray lasers reach new wavelengths and applications, (Invited Paper). J.J. Rocca, M. Frati, B. Benware, M. Seminario, J. Filevich, M.C. Marconi, K. Kanizay, A. Ozols, I.A. Artiukov, A. Vinogradov, Y.A. Uspenskii, Comptes Rendus De L' Academie Des Sciences Serie IV, Physique Astrophysique, 8, 1065-1081 (2000).
- [\[pdf\]](#) "Dynamics of a micro-capillary discharge plasma waveguide using a soft x-ray laser backlighter". M.C. Marconi, C.H. Moreno, J.J. Rocca, V.N. Shlyaptsev and A.L. Osterheld. Physical Review E 62, 7209, 2000.
- [\[pdf\]](#) "Molecular rotational diffusion detected by differential fluorescence energy". J. Torga, M. C. Marconi, M. Negri and P. Aramendia". Chemical Physics 253, 249-257, 2000.
- [\[pdf\]](#) "Dense plasma diagnostics with an amplitude-division soft X-ray interferometer based on diffraction gratings". J. Filevich, K. Kanizay, M. Marconi, J.L.A. Chilla and J.J. Rocca. Optics Letters, 25, 356-358, 2000.
- [\[pdf\]](#) "Soft X-Ray Laser Interferometry of a Pinch Discharge Using a Table Top Laser". C.H. Moreno, M.C. Marconi, K. Kanizay, J.J. Rocca, Yu. A Uspenskii, A.V. Vinogradov and Yu. A. Pershin. Physical Review E, 60, 911-917, 1999.
- [\[pdf\]](#) "Soft X-Ray Laser Interferometry of a plasma with a table-top laser and a Lloyd's Mirror". J.J. Rocca, C.H. Moreno, M.C. Marconi and K. Kanizay. Optics Letters, 24, 420, 1999.
- [\[pdf\]](#) "Shadowgrams of a dense micro-capillary plasma obtained with a table-top soft x-ray laser". C.H. Moreno, M.C. Marconi, V.N. Shlyaptsev and J.J. Rocca. IEEE Transactions on Plasma Science, 27, 6 1999.
- [\[pdf\]](#) "Two-dimensional Near-field and Far-field Imaging of a Ne-like Ar Capillary Discharge TableTop Soft X-Ray Laser". C.H. Moreno, M.C. Marconi, V.N. Shlyaptsev, B.R. Benware, C.D. Macchietto, J.L.A. Chilla, J.J. Rocca and A.L.Osterheld. Physical Review A, 58, 1509, 1998.
- [\[pdf\]](#) "Non-conventional short-time dc-magnetometer for superconducting films". S.O. Valenzuela, H. Ferrari, V. Bekeris, M.C. Marconi, J. Guimpel and F. de la Cruz. Review of Scientific Instruments, 69, 251, 1998.
- "Progress in the Development of Table Top Discharge-pumped Soft X-Ray Lasers". J.J. Rocca, F.G. Tomasel, C.H. Moreno, V.N. Shlyaptsev, M.C. Marconi, B.R. Benware, J.J. Gonzalez, J.L.A. Chilla and C.D. Macchietto. (Invited paper). Journal de Physique IV, C4, 353-363, 1997.
- [\[pdf\]](#) "Simple fast light detector device based on a 1P28 photomultiplier tube". A.R. Libertun, M.C. Marconi and G. Sanchez. Applied Optics, 36, 9115-9117, 1997.
- [\[pdf\]](#) "Design of a fluorescence technique using double laser pulse excitation for the measurement of molecular Brownian dynamics". J.R. Torga, J. Etcheverry and M.C. Marconi. Optics Communications, 143, 230-234, 1997.
- [\[pdf\]](#) "Measurement of the spatial coherence build up in a discharge-pumped table-top soft x-ray laser". M.C. Marconi, J.L.A. Chilla, C.H. Moreno, B.R. Benware and J.J. Rocca. Phys. Rev. Letters, 79, 2799-2802, 1997.
- [\[pdf\]](#) "Effect of the  $\Gamma$ -L and  $\Gamma$ -X transfer on the carrier dynamics of InGaP/InAl multiple quantum wells". C.S. Menoni, O. Buccafusca, M.C. Marconi, D. Patel and S.M. Goodnick. Appl. Phys. Lett. 70, 102-104, 1997.
- [\[pdf\]](#) "Soft X-Ray Interferometer for single-shot laser linewidth measurements". J.L.A. Chilla, J.J. Rocca, O.E. Martinez and M.C. Marconi. Optics Letters 21, 955-957, 1996.
- [\[pdf\]](#) "Discharge Driven 46.9 nm Amplifier with Gain-length Approaching Saturation" J.J. Rocca, M.C. Marconi, J.L.A. Chilla, D.P. Clark, F.G. Tomasel and V.N. Shlyaptsev. IEEE

- Selected Topics in Quantum Electronics, 1, 945-948, 1995.
- [\[pdf\]](#) "Discharge Pumped Soft X-Ray Laser in Neon-Like Argon". J.J. Rocca, F.G. Tomasel, M.C. Marconi, V.N. Shlyaptsev, J.L.A. Chilla, B.T. Szapiro and G. Giudice. (Invited paper). Physics of Plasmas, 2, 2547-2554, June 1995.
- [\[pdf\]](#) "Generation of Synchronized Trains of Picosecond Laser Pulses at two Wavelengths in a Single Cavity Synchronously Mode-locked Dye Laser". O. Buccafusca, J.J. Rocca, M.C. Marconi and C.S. Menoni. Review of Scientific Instruments, 64, 259-260, 1993.
- [\[pdf\]](#) "Study of the Soft X-Ray Emission from Carbon Ions in a Capillary Discharge". J.J. Rocca, M.C. Marconi and F. Tomasel. IEEE Journal of Quantum Electronics, 29, 182-191, 1993.
- [\[pdf\]](#) "Picosecond Absorption Recovery of Photoexcited GaInP Epitaxial Films". T. Prabhuram, J. Schmerge, C.S. Menoni, M.C. Marconi, O.E. Martinez, J.J. Rocca, M.J. Hafich, H.Y. Lee and G.Y. Robinson. Applied Physics Letters, 59, 90, 1991.
- [\[pdf\]](#) "Effect of a Strong Axial Magnetic Field in the Plasma Recombination and XUV Emission of a Highly Ionized Capillary Discharge". M.C. Marconi, J.J. Rocca, J.F. Schmerge, M. Villagran and F. Lehmann. IEEE Journal of Quantum Electronics, 26, 1809-1814, 1990.
- [\[pdf\]](#) "Magnified Expansion and Compression of Subpicosecond Pulses from a Frequency Doubled Nd:YLF Laser". O.E. Martinez, Prabhuram T., M.C. Marconi and J.J. Rocca. IEEE Journal of Quantum Electronics, 25, 2124-2128, 1989.
- [\[pdf\]](#) "Time Resolved Extreme Ultraviolet Emission from a Highly Ionized Lithium Capillary Discharge". M.C. Marconi and J.J. Rocca. Applied Physics Letters, 52, 2180-2182, 1989.
- [\[pdf\]](#) "Fast Gating of a Dual Multichannel Plate Intensified Array Detector". M.C. Marconi, J.J. Rocca and G.J. Krausse. Journal of Physics E: Scientific Instruments, 22, 849-852, 1989.
- [\[pdf\]](#) "Light Collection and Wavelength Calibration for an Extreme Ultraviolet Diode Array Spectrograph". M.C. Marconi, J.F. Schmerge and J.J. Rocca. Review of Scientific Instruments, 60, 966, 1989.
- [\[pdf\]](#) "Proposal for Soft X-ray and XUV Lasers in Capillary Discharges". J.J. Rocca, D. Beethe and M.C. Marconi. Optics Letters, 13, 565-567, 1988.
- [\[pdf\]](#) "Electric Field Distribution in the Cathode Sheath of an Electron Beam Glow Discharge". S.A. Lee, L.U. Andersen, J.J. Rocca, M.C. Marconi and N.D. Reesor. Applied Physics Letters, 51, 6, 409, 1987.
- [\[pdf\]](#) "Short Pulse Generation in Solid State Lasers by a Novel Passive Technique". M.C. Marconi, O.E. Martínez and F.P. Diodati. Optics Communications, 63, 211-216, 1987.
- [\[pdf\]](#) "Second Threshold Condition in the Case of Q-switching by Self Focusing". M.C. Marconi, O.E. Martínez and F.P. Diodati. Journal of the Optical Society of America B, 3, 12, 1630, 1986.
- [\[pdf\]](#) "Q-switching by Self Focusing". M.C. Marconi, O.E. Martínez and F.P. Diodati. Optics Letters, 10, 8, 402, 1985.
- [\[pdf\]](#) "Perfect Mode Locking of Solid State Lasers by a Double Passive Modulation". O.E. Martínez, M.C. Marconi and F.P. Diodati. Journal of Applied Physics, 53, 10, 1982.
- [\[pdf\]](#) "Reliable Passive Mode-locking with Slow Q-switching". M.C. Marconi, O.E. Martínez and F.P. Diodati. Applied Physics Letters, 37, 684, 1980.

#### SCIENCE NEWS ARTICLES

- "Numerical Optical Sectioning for 3D Holographic Images with EUV Lasers". P.W. Wachulak, M.C. Marconi, R.A. Bartels, C. S. Menoni and J.J. Rocca. Optics and Photonics News, 17, 18, 2007. Special Issue "Optics in 2007".
- "Light-based microscopy reaches sub-38 nm resolution with extreme UV laser". C. Brewer, G. Vaschenko, Y. Wang, M. Larotonda, B.M. Luther, M.C. Marconi, J.J. Rocca, C.S. Menoni, E.H. Anderson, W. Chao, Y. Liu and D.T. Attwood. Optics and Photonics News, 17, 26, 2006. Special Issue "Optics in 2006".
- "Nano-imaging with Compact Extreme Ultraviolet Lasers". G. Vaschenko, F. Brizuela, C. Brewer, M. Grisham, C.S. Menoni, M.C. Marconi, J.J. Rocca, W. Chao, J.A. Liddle, E.H. Anderson, D.T. Attwood, A.V. Vinogradov, I.A. Artioukov, Y.P. Pershyn and V.V.

- Kondratenko. Optics and Photonics News, 16, 25, 2005. Special Issue "Optics in 2005".
- [\[pdf\]](#) "High Repetition Rate Tabletop Soft X-Ray Lasers with Saturated Output at Wavelengths down to 13.2 nm". Y. Wang, M.A. Larotonda, B.M. Luther, D. Alessi, M. Berril, M.C. Marconi, V.N. Shlyaptsev, J.J. Rocca. Optics and Photonics News, 16, 26, 2005. Special Issue "Optics in 2005".
- "Teaching the Physics of a Diode Pumped Laser". F.P. Diodati, A.A Hnilo, M.G. Kovalsky, M.C. Marconi and A. Touron. Optics and Photonics News 16, January 2002
- "Dense Plasma Interferometry with an Amplitude Division Soft X-Ray Laser Interferometer". J. Filevich, K. Kanizay, M. Marconi, J.L.A. Chilla and J.J. Rocca. Optics and Photonics News, 11, 12, 2000. Special Issue "Optics in 2000"
- "Two-dimensional Near-field and Far-field Imaging of a Ne-like Ar Capillary Discharge Table-Top Soft X-Ray Laser ".C.H. Moreno, M.C. Marconi, V.N. Shlyaptsev, B.R. Benware, C.D. Macchietto, J.L.A. Chilla, J.J. Rocca and A.L.Osterheld. Optics and Photonics News, 9, 55, 1998. Special Issue "Optics in 1998".
- "Build up of the spatial coherence in a discharge-pumped table-top soft X-ray laser". M.C. Marconi, J.L.A. Chilla, C.H. Moreno, B.R. Benware and J.J. Rocca. Optics and Photonics News, 8, 25, 1997, Special Issue "Optics in 1997".
- "Discharge Pumped Soft-X-Ray Laser". J.J. Rocca, V.N. Shlyaptsev, F.G. Tomasel, O.D. Cortazar, D. Hartshorn, J.L.A. Chilla and M.C. Marconi. Optics and Photonics News, 5, 16, 1994, Special Issue "Optics in 1994".
- "Laseres de Rayos X, de curiosidad de laboratorio a instrumento científico tecnológico". M.C. Marconi. Ciencia Hoy, vol 6, # 33, pag 39.

#### CONFERENCE PROCEEDINGS

- G. Vaschenko, F. Brizuela, C. Brewer, M.A. Larotonda, Y.Wang, B.M. Luther, M.C. Marconi, C.S. Menoni, J.J. Rocca, W. Chao, E.H. Anderson, Y.Liu, D. Attwood. "EUV imaging with a 13 nm tabletop laser reaches sub-38 nm spatial resolution". Proc. SPIE Vol. **6151**, p. 282-288, 2006, Emerging Lithographic Technologies X; Michael J. Lercel; Ed.
- J.J. Rocca, B.M. Luther, S. Heinbuch, M.A. Larotonda, Y. Wang, D. Alessi, M. Berril, M.C. Marconi, C.S. Menoni, V.N. Shlyaptsev. "High repetition rate table-top soft x-ray lasers with capillary discharges and laser-created plasmas". AIP Conference Proceedings, **808**, 241, (2006). (Invited)
- M.C. Marconi , M.G. Capeluto, P. Wachulak, G. Vaschenko, H. Bravo, C.S. Menoni, J.J. Rocca , E.H. Anderson, W. Chao, D.T. Attwood, O. Hemberg, B. Frazer, and S. Bloom. "Nanopatterning and nanomachining with table-top extreme ultraviolet lasers". Proceedings Material Research Society Fall Meeting 2006.
- C. S. Menoni, G. Vaschenko, F. Brizuela, C. Brewer, Y. Wang, M. A. Larotonda, B. M. Luther, M. C. Marconi, J. J. Rocca, W. Chao, J. A. Liddle, Y. Liu, E. H. Anderson, D. T. Attwood, A. V. Vinogradov, I. A. Artioukov, Y. P. Pershyn and V. V. Kondratenko. "Nano-scale imaging with table-top extreme ultraviolet lasers". Proceedings Material Research Society Fall Meeting 2006.
- M.C. Marconi, P. Wachulak, C.S. Menoni, M.G. Capeluto, E. Anderson "Development of a table top nanopatterning tool with Extreme Ultraviolet Lasers".. Proceedings of the 2006 NSF Design, Service and Manufacturing G&R Conference.
- P.W. Wachulak, M. C. Marconi, R. Bartels, C. S. Menoni, J.J. Rocca. "Soft X ray holographic imaging with sub-micron resolution". "X-Ray Lasers 2006". Springer Proceedings in Physics Volume 115. Pag 483-490. P.V. Nickles and K.A. Janulewicz Eds.
- M. G. Capeluto, P. Wachulak , M.C. Marconi , C.S. Menoni, J.J. Rocca, E.H. Anderson, W. Chao, D.T. Attwood. "Table top nanopatterning using Soft X-Ray lasers". "X-Ray Lasers 2006". Springer Proceedings in Physics Volume 115. Pag 491-496. P.V. Nickles and K.A. Janulewicz Eds.
- J.J. Rocca, Y. Wang, M. Larotonda, B. Luther, M. Berril, D. Alessi, A. Weith, M.C. Marconi, D. Patel, C.S. Menoni, V.N. Shlyaptsev, J. Dunn, Y. Liu, D.T. Attwood.

- “Advances in High Repetition rate Soft X-ray Lasers: Lasing down to 10.9 nm and High brightness operation of a seeded Soft X-ray Amplifier Using a solid target” (Invited). “X-Ray Lasers 2006”. Springer Proceedings in Physics Volume 115. Pag 149-160. P.V. Nickles and K.A. Janulewicz Eds.
- C.S. Menoni, G. Vaschenko, F. Brizuela, C. Brewer, Y. Wang, M.A. Larotonda, B.M. Luther, M.C. Marconi, J.J. Rocca, W. Chao, J.A. Liddle, Y. Liu, E.H. Anderson, D.T. Attwood, A.V. Vinogradov, I.A. Artiukov, Y.P. Pershin, V.V. Kondratenko. “Nanoscale imaging with table top soft X-ray lasers: Sub-38 nm resolution”. (Invited). “X-Ray Lasers 2006”. Springer Proceedings in Physics Volume 115. Pag 417-426. P.V. Nickles and K.A. Janulewicz Eds.
  - J. Grava, M. Purvis, J. Filevich, M.C. Marconi, J.J. Rocca, E. Jankowska, J. Dunn, S.J. Moon, V.N. Shlyaptsev. “X-Ray Lasers 2006”. Springer Proceedings in Physics Volume 115. Pag 471-476. P.V. Nickles and K.A. Janulewicz Eds.
  - J. Dunn, V.N. Shlyaptsev, J. Nilsen, R.F. Smith, R. Keenan, S.J. Moon, J. Filevich, J. Rocca, A.J. Nelson, J.R. Hunter, M.C. Marconi, Y.L. Li, A.L. Osterheld, R. Shepherd, H. Fiedorowicz, A. Bartnik, A.Ya. Faenov, T.A. Pikuz, P. Seitun, S. Hubert, S. Jacquemot, M. Fajardo.. “Overview of table top X-ray laser development at the Lawrence Livermore National Laboratory.” “X-Ray Lasers 2006”. Springer Proceedings in Physics Volume 115. Pag 535-540. P.V. Nickles and K.A. Janulewicz Eds.
  - J. Dunn, S.J. Moon, R.F. Smith, R. Keenan, J. Nielsen, J.R. Hunter, J. Filevich, J.J. Rocca, M.C. Marconi, V.N. Shlyaptsev. “Hydrodynamic simulations and Soft X-ray interferometric studies of energy transport in tightly focused laser-heated aluminum plasmas. “X-Ray Lasers 2006”. Springer Proceedings in Physics Volume 115. Pag 535-540. P.V. Nickles and K.A. Janulewicz Eds.
  - F. Brizuela, G. Vaschenko, C. Brewer, M. Grisham, C.S. Menoni, H. Mancini, M.C. Marconi, J.J. Rocca, W. Chao, J.A. Liddle, E.H. Anderson, D.T. Attwood, A.V. Vinogradov, I.A. Artiukov, Y.P. Pershin, V.V. Kondratenko. “Nanometer scale imaging with compact soft x-ray lasers”. SPIE Conference on Soft X-Ray Lasers and Applications VI, 2005, SPIE, Vol.5919, (2005).
  - J. Filevich, J. Grava, M. Purvis, J.J. Rocca, M.C. Marconi, S.J. Moon, J. Nielsen, J.H. Scofield, J. Dunn, R.F. Smith, R. Keenan, J.R. Hunter, V.N. Shlyaptsev. “Soft X-ray Interferometry unveils plasmas with index of refraction greater than one”. SPIE Conference on Soft X-Ray Lasers and Applications VI, 2005, SPIE, Vol.5919, (2005).
  - J. Grava, M. Purvis, J. Filevich, M.C. Marconi, J.J. Rocca, J. Dunn, S.J. Moon, R.F. Smith, J. Nielsen, V.N. Shlyaptsev. “Soft X-ray interferometry of colliding plasmas”. SPIE Conference on Soft X-Ray Lasers and Applications VI, 2005, SPIE, Vol.5919, (2005).
  - J.J. Rocca, Y. Wang, M.A. Larotonda, B.M. Luther, D. Alessi, M. Berril, A. Weith, M.C. Marconi, C.S. Menoni, V.N. Shlyaptsev. “Demonstration of saturated high repetition rate table top soft X-ray lasers at wavelengths down to 13.2 nm”. SPIE Conference on Soft X-Ray Lasers and Applications VI, 2005, SPIE, Vol.5919, (2005).
  - H.R.Corti, G.Frank, M.C. Marconi. In *Water, Steam and Aqueous Solutions for Electric Power*. Proceedings of the 14th International Conference on the Properties of Water and Steam. 2004, Kyoto-Japón. Ed. M.Nakahara, N.Matubayasi, M.Ueno, K.Yasuoka and K.Watanabe. Maruzen Co.Ltd. pp. 680-684 (2005).
  - J.J. Rocca, B.M. Luther, S. Heinbuch, M.A. Larotonda, Y. Wang, M. Grisham, D. Alessi, M. Berrill, M.C. Marconi, V.N. Shlyaptsev, A. Dummer, F. Brizuela, and C.S. Menoni, “Demonstration of High Repetition Rate Desk-Top and Table-Top Soft X-Ray Lasers”, The 9<sup>th</sup> International Conference on X-Ray Lasers, Beijing, China, May 24-28, 2004, in press
  - R.F. Smith, J. Dunn, J. Filevich, S. Moon, J. Nilsen, R. Keenan, V.N. Shlyaptsev, J.J. Rocca, J.R. Hunter, R. Shepherd, R. Booth, M.C. Marconi, “Two-dimensional Interferometric, Near-field and Temporal characterization of the Transient Collisional X-ray Laser”, The 9<sup>th</sup> International Conference on X-Ray Lasers, Beijing, China, May 24-28, 2004, in press
  - M.G. Capeluto, G. Vaschenko, M.E. Grisham, M.C. Marconi, C.S. Menoni, J.J. Rocca, S.

Luduena, L. Pietrasanta. "Interferometric Lithography at 46.9 nm", SPIE, Vol.5622, 735-738, (2004).

- J.J. Rocca, B. Luther, Y.Wang, J. Filevich, E. Hammarsten, E. Jankowska, M.C. Marconi, C.S. Menoni, V.N. Shlyaptsev, and S. Moon, "Small scale soft x-ray lasers and highly ionized plasma waveguides based on fast capillary discharges", Applications of High Field and Short Wavelength Sources X, pp 28-36, Biarritz, France, October 12-15, (2003)
- J.Dunn, R.F. Smith, A.J. Nelson, S.J. Moon, J. Nilsen, R. Keenan, T.W. Van Buuren, J.R. Hunter, J. Filevich, J.J. Rocca, M.C. Marconi, A.Ng, O. Hemmers, D.W. Lindle, and V.N. Shlyaptsev, "Picosecond-Driven X-ray Lasers for Probing Matter Undergoing Rapid Changes", Applications of High Field and Short Wavelength Sources X , pp 37-39, Biarritz, France, October 12-15, (2003)
- B.M. Luther, Y. Wang, M.C. Marconi, M Berril, D. Alessi, J.L.A. Chilla and J.J. Rocca, "Guiding of optical laser pulses in fast capillary discharge plasma columns", SPIE Conference on Soft X-Ray Lasers and Applications V, 2003, SPIE, Vol.5197, 136-142, (2003)
- J. Filevich, J.J. Rocca, E.C. Hammarsten, E. Jankowska, M.C. Marconi, R.F. Smith, R. Keenan, J. Dunn, S. Moon, V.N. Shlyaptsev, J. Nilson, and J.R. Hunter, "Interferometric studies of laser-created plasmas using compact soft x-ray lasers", SPIE Conference on Soft X-Ray Lasers and Applications V, San Diego, California, August 6-7 2003, Proceedings of SPIE, Vol. 5197, pp 143-154.
- R.F. Smith, J. Dunn, J. Filevich, S. Moon, J. Nielsen, R. Keenan, V.N. Shlyaptsev, J.J. Rocca, J.R. Hunter, R. Shepherd, R. Booth and M.C. Marconi. (Invited paper). "Improved energy coupling into the gain region of the Ni-like Pd Transient collisional x-ray laser". SPIE Conference on Soft X-Ray Lasers and Applications V, 2003, SPIE, Vol.5197, 155-167, (2003)
- J.J. Rocca, M. Grisham, G. Vaschenko, S. Heinbuch, C.S. Menoni, E. Hammarsten, E. Jankowska, J. Filevich, M. Marconi, Y. Wang, B.M. Luther, L. Juha, I. Artioukov, V.V. Kondratenko, A. Vinogradov, V. Shlyaptsev, "Recent results in capillary discharge soft x-ray laser Research". SPIE Conference on Soft X-Ray Lasers and Applications V, 2003, SPIE, Vol.5197, 174-183, (2003).
- E.C. Hammarsten, E. Jankowska, B. Szapiro, J. Filevich, M.C. Marconi, J.J. Rocca. "Soft X ray laser inteferometry/shadowgraphy of exploding wire plasmas". SPIE Conference on Soft X-Ray Lasers and Applications V, 2003, SPIE, Vol.5197, 184-193, (2003).
- V.N. Shlyaptsev, J. Dunn, S. Moon, R. Smith, R. Keenan, J. Nilsen, K.B. Fournier, J. Kuba, A.L. Osterheld, J.J. Rocca, B. Luther, Y. Wang and M.C. Marconi. "Numerical studies of transient and capillary x-ray lasers and their applications". SPIE Conference on Soft X-Ray Lasers and Applications V, 2003, SPIE, Vol.5197, 221-228, (2003)
- J.J. Rocca, B. Luther, Y.Wang, J. Filevich, E. Hammarsten, E. Jankowska, M.C. Marconi, C.S. Menoni, V.N. Shlyaptsev, and S. Moon, "Small scale soft x-ray lasers and highly ionized plasma waveguides based on fast capillary discharges", Applications of High Field and Short Wavelength Sources X, pp 28-36, (2003)
- J.Dunn, R.F. Smith, A.J. Nelson, S.J. Moon, J. Nilsen, R. Keenan, T.W. Van Buuren, J.R. Hunter, J. Filevich, J.J. Rocca, M.C. Marconi, A.Ng, O. Hemmers, D.W. Lindle, and V.N. Shlyaptsev, "Picosecond-Driven X-ray Lasers for Probing Matter Undergoing Rapid Changes", Applications of High Field and Short Wavelength Sources X, pp 37-39 (2003)
- J. Filevich, J.J. Rocca, E.C. Hammarsten, E. Jankowska, M.C. Marconi, R.F. Smith, R. Keenan, J. Dunn, S. Moon, V.N. Shlyaptsev, J. Nilson, and J.R. Hunter, "Interferometric studies of laser-created plasmas using compact soft x-ray lasers", (Invited paper). SPIE Conference on Soft X-Ray Lasers and Applications V, SPIE, Vol. 5197, 143-154, (2003)
- R.F. Smith, J. Dunn, J.Filevich, J.J. Rocca, J. Nilsen, V. Shlyaptsev, S.J. Moon, J.R. Hunter, R. Shepherd, R. Booth, J. Kuba, M. Marconi, "Two dimensional interferometric

characterization of the transient collisional x-ray laser”, SPIE Conference on Soft X-Ray Lasers and Applications V, San Diego, California, 2003, SPIE, Vol. 5197, In press, (2003).

- V.N. Shlyaptsev, J. Dunn, R.F. Smith, S.J. Moon, K.B. Fournier, J. Nielsen, A.L. Osterheld, J.Kuba, R.London, A.J. Atwood, R.W. Lee, J.J. Rocca, A. Rahman, E. Hammarsten, J. Filevich, E. Jankowska, M.C.Marconi, N. Forniari, D. Buchenauer, H.A. Bender, S.Karim, M. Kanouff, J. Dimkoff, G. Kubiak, G. Shimkaveg, W.T. Silfvast. “Exploring the Potential of a Table-Top X-Ray Lasers and Capillary Discharges for Applications”, AIP Conference Proceedings, Vol 641, pp 528-537.(2002)
- B.M. Luther, Y. Wang, M.C. Marconi and J.J. Rocca. “Demonstration of a Plasma Waveguide in a Fast Argon Capillary Discharge”. AIP Conference Proceedings, Vol 641, pp 332-336, (2002).
- J. Filevich, J.J. Rocca, E. Jankowska, E.C. Hammarsten, M.C. Marconi, S.J. Moon and V.N. Shlyaptsev. “Density Depression in Laser-Created Plasma Unveiled with Table Top Soft X-Ray Laser Interferometry”. AIP Conference Proceedings, Vol 641, pp 489-494.(2002).
- E. Jankowska, E.C. Hammarsten, B.Szapiro, J. Filevich, M.C. Marconi and J.J. Rocca. “Soft X-Ray Laser Interferometry/Shadowgraphy of Exploding Wire Plasmas”. AIP Conference Proceedings, Vol 641, pp 498-503.(2002)
- R.F. Smith, S.Moon, J. Dunn, J. Nielsen, V.N. Shlyaptsev, J.R. Hunter, J.J. Rocca, J. Filevich and M.C. Marconi. “Interferometric Diagnosis of Two-Dimensional Plasma Expansion”. AIP Conference Proceedings, Vol 641, pp 538-543.(2002)
- J.J. Rocca, B. Luther, M.C.Marconi, T. Whiteaker, D. A. Braley, J. Filevich, E.C. Hammarsten, A. Rahman, B.T. Szapiro, Y. Wang, E. Jankowska, M. Grisham, T. Richter, V.N. Shlyaptsev, and S. Moon. “Extremely compact capillary discharge-based soft x-ray laser development and application to dense plasma diagnostics”. AIP Conference proceedings, Vol. 641, pp.125-132. (2002)
- J. Dunn, R.F. Smith, J. Nielsen, A.J. Nelson, T.W. Van Buuren S.J. Moon, J.R. Hunter, J. Filevich, J.J. Rocca, M.C. Marconi and V.N. Shlyaptsev. ”A picosecond 14,7 nm x-ray laser for probing matter undergoing rapid changes”. AIP Conference Proceedings, Vol. 641, pp481-488.(2002).
- V.N. Shlyaptsev, J. Dunn, S.J. Monn, K.B. Fournier, A.L. Osterheld, J.J. Rocca, J. Filevich, M.C. Marconi, E. Jankowska, E.C. Hammarsten, S. Sakadzic, A. Raham. M. Frati, F.G. Tomasel, N. Fornari, D. Buchenauer, H.A. Bender, S. Karim, M. Kanouff, J. Dimkoff, G. Kubiak, G. Shimkaveg, and W.T. Silfvast, “Modeling of capillary Discharge Plasma for X-Ray lasers, XUV Litography and other applications”. AIP Conference Proceedings, Vol 651, pp 416-419, 2002
- G. Quinteiro, H. Corti, M. Marconi. “Diffusion in Aqueous Solutions Containing Disaccharide using laser techniques”. Proceedings SPIE Vol 4419, pag. 58-61, 2001
- M. Marconi, J. Filevich, J.J. Rocca, K. Kanizay and J.L.A. Chilla. “Soft X-Ray laser interferometer used for dense plasma diagnostics”. Proceedings SPIE Vol 4419, pag. 106-109, 2001
- J. Dunn, R.F. Smith, J. Nielsen, J.R. Hunter, T.W. Barbee, V,N, Shlyaptsev, J. Filevich, J.J. Rocca, M.C. Marconi, H. Fiedorowicz and A. Bartnik. “Recent X-Ray Experiments on the COMET Facility”. Proceedings SPIE Vol. 4505 (2001)
- E. Jankowska, E.C. Hammerstien, J. Filevich, M.C. Marconi, J.J. Rocca. “Advances in Dense Plasma Interferometry with a Tabletop Capillary Discharge Soft X-Ray Laser”. Proceedings SPIE Vol. 4505 (2001)
- “Plasma Diagnostics with a Table-Top Soft X-Ray Laser”. J.J. Rocca, M.C. Marconi, J. Filevich, K. Kanizay, C.H. Moreno, J.L.A. Chilla, R. Berglund, V.N. Shlyapsev, Y.A. Unspenskii, A. Vinogradov and Y.P. Pershin. “High Power Lasers in Energy Engineering”. *Invited Paper*. SPIE vol 3776, pag 266-277, (2000).
- J. Filevich, M.C. Marconi, K. Kanizay, R.J. Berglund and J.J. Rocca. “Demonstration of an Amplitude Division Soft X-Ray Interferometer for Plasma Diagnostics Based of Diffraction Gratings”. SPIE vol 3776, pag 232-239.

- K. Kanizay, M.C. Marconi, C.H. Moreno, J.J. Rocca, V.N. Shlyaptsev, Y.A. Unspenskii, A.V. Vinogradov and Y.P. Pershing. "Plasma Diagnostics Using a Table Top Soft X-ray Laser: Demonstration of Shadowgraphy and Interferometry Using a Lloyd's Mirror". SPIE vol 3776, pag 212-223.
- J. Torga, M.C. Marconi, C.G. Segundo and M. Villagran. "Ultrashort molecular rotational diffusion times measured by time-integrated fluorescence ". Proceedings Lasers 99, pag 650-652. STS Press, McLean, 2000. Editors V.J. Corcoran and T.A. Corcoran.
- J.J. Rocca, F.G. Tomasel, J.L.A. Chilla, M.C. Marconi, V.N. Shlyaptsev, C.H. Moreno, B.R. Benware and J.J. Gonzalez. "Saturated Table -Top Soft X-Ray Laser by Discharge Excitation". Applications of High Field and Short Wavelength Sources, pages. 29-38. Editors L. Di Mauro, M. Murnane and A. L'Huillier. Plenum Press.
- J.J. Rocca , C.H. Moreno, B.R. Benware, M.C. Marconi, V.N. Shlyaptsev, J.J. Gonzalez, M. Fratti, F.G.Tomasel and J.L.A.Chilla. "Discharge Pumped Soft X-Ray Lasers". Proceedings Lasers 97. STS Press, McLean, 1998. Editors V. Corcoran and C. Goldman.
- A.L. Oesterheld, V. Shlyaptsev, J. Dunn, J.J. Rocca, M.C. Marconi, C.H. Moreno, J.J. Gonzalez, M. Frati, P.V. Nickles, M.P. Kalashnikov and W. Sandner. "Modeling a Laser Produced Plasma and Z-Pinch X-ray Lasers". X-Ray Lasers 1998, pag 353-362. IOP Institute of Physics Publishing. Editors Y. Kato and H. Takuma.
- J.J. Rocca, C.H. Moreno, B. Benware, C. Macchietto, M.C. Marconi, V. Shlyaptsev, F.G. Tomasel, K. Kanizay, J.J. Gonzalez and M. Frati. "New results in the development of table-top capillary discharge soft X-ray lasers: Demonstration of high average power and realization of the first application". X-Ray Lasers 1998, pag 9-16. IOP Institute of Physics Publishing. Editors Y. Kato and H. Takuma.
- J.J. Rocca, C.H. Moreno, B. Benware, M.C. Marconi, V. Shlyaptsev, C. Macchietto, F.G. Tomasel, J.J. Gonzalez, M. Fratti and J.L.A. Chilla. "Table top Soft X-ray lasers by fast discharge excitation". SPIE vol 3343, pag 138, 1998. Editor C.R. Phipps,
- J.L.A. Chilla, M.C. Marconi, J.J. Rocca, C. Moreno and B. Benware. "Spatial coherence of a capillary discharge soft x-ray amplifier". SPIE, vol 3156, pag 271-277, 1997.
- "Lasing in Ne-like S and other new developments in capillary discharge Ultrashort wavelength lasers". J.J. Rocca, F.G. Tomasel, M.C. Marconi, J.L.A. Chilla, C. Moreno, B. Benware, V.N. Shlyaptsev and J.J. Gonzalez. Proceedings SPIE, "Soft X-Ray Lasers and Applications II", vol 3156, pag 164-173, 1997.
- "Rotational Relaxation of Symmetric Top Molecules Studied by Two Pulse Excitation Fluorescence". J.R. Torga, J. Etcheverry and M.C. Marconi. Proceedings Lasers 96. STS Press, McLean, 1997, pag 327. Editors V. Corcoran and C. Goldman.
- "Demonstration and Study of a Discharge-Pumped Table-Top soft X-ray Laser". J.J. Rocca, F.G. Tomasel, V.A. Shlyaptsev, J.L.A. Chilla, D. Clark and M.C. Marconi. Proceedings of the 10th APS Meeting on Atomic Processes in Plasmas. 1996.
- "Achievement of the saturation limit in a Discharge-Pumped table top soft X-ray amplifier". J.J. Rocca, D.P. Clark, J.L.A. Chilla, M.C. Marconi, F.G. Tomasel and V.N. Shlyaptsev. Proceedings Lasers 96. STS Press, McLean, 1996, pag 13. Editors V. Corcoran and C. Goldman
- "Interferometer for Single-Shot Soft X-ray Laser Linewidth Measurements". J.L.A. Chilla, J.J. Rocca, O.E. Martinez and M.C. Marconi. "X-Ray Lasers 1996". Institute of Physics Conference Series Number 151, pag 361-363. Editors S. Svanberg and C.G. Wahlstrom 1996.
- J.J. Rocca, M.C. Marconi, F.G. Tomasel, V.N. Shlyaptsev, J.L.A. Chilla and D.P. Clark. "Towards Saturation of a Discharge Pumped Soft-X-Ray Amplifier". SPIE Vol 2520, pag. 201. Editors J.J. Rocca and P. Hagelstein. 1995
- J.J. Rocca, F.G. Tomasel, M.C. Marconi, V.N. Shlyaptsev, J.L.A. Chilla and D. Clark. "Small Scale soft x-ray laser excited by a fast discharge: realization and characterization". SPIE vol. 2524, pag 174, 1995.
- J.R. Torga and M.C. Marconi. "Study of Rotational Diffusion Times by Fluorescence after a Double Pulse Excitation". Proceedings 18th International Conference on Lasers & Applications". STS Press, McLean, 1995, pag 252. Editors V. Corcoran and C. Goldman.
- J.J. Rocca, F.G. Tomasel, V.N. Shlyaptsev, M.C. Marconi, O.D. Cortazar, G. Giudice, D.

- Clark and J.L.A. Chilla. "Demonstration of Soft-X-Ray Laser in a Discharge-Created Plasma". Proceedings of the 17th International Conference on Lasers'94, pag 14, STS Press, McLean, Editor C. Goldman, 1994.
- J.J. Rocca, B.T. Szapiro, D. Cortázar, F.G. Tomasel, M.C. Marconi, J. Hung and K. Floyd. "Fast Discharge Excitation of Small Scale Soft X-Ray Lasers". Inst. Phys. Conferences, N° 125, pag. 427-431. IOP Publishing Ltd. 1992.
  - J.J. Rocca, M.C. Marconi, B.T. Szapiro and J. Mayer. "Progress Towards the Development of a Compact Capillary Discharge Soft X-Ray Laser". Optical Society of America Proceedings vol.11, pag. 106. Editors P.H. Bucksbaum and N.M. Ceglio, 1991.
  - J.J. Rocca, M.C. Marconi, B.T. Szapiro and J. Meyer. "Experiments on Soft X-ray Laser Development in a Table Top Capillary Discharge". SPIE, vol 1551, pp. 275, 1991.
  - J.J. Rocca, M.C. Marconi, M.Villagran Muniz and D.C.Beethe. "Capillary Discharge Plasmas as Extreme Ultraviolet Laser Sources". OSA Proceedings on Short Wavelength Coherent Radiation: Generation and Applications, Vol. 2, pag 99, 1989. Editors Roger W. Falcone and Janos Kirz.
  - J.J. Rocca, M.C. Marconi, D.C. Beethe and M. Villagran Muniz. "Prospects of XUV Recombination Lasers in Capillary Discharges". Proceedings of the International Conference Lasers 88, pag 278-285, Editors R.C.Sze and F.J. Duarte. STS Press, McLean, VA 1989.