
PUBLICATIONS

H. Choumane, N. Ha, C. Nelep, A. Chardon, G.O. Reymond, C. Goutel, G. Cerovic, F. Vallet, and C. Weisbuch, “**Double interference fluorescence enhancement from reflective slides: Application to bicolor microarrays**”, Applied Physics Letters, 87, 031102, 2005.

M. Laroche, A.M. Chardon, J. Nilsson, D.P. Shepherd, J.K. Sahu, W.A. Clarkson, S. Girard, R. Moncorgé, “**Diode-pumped passively Q-switched tunable Er-Yb double-clad fibre laser**”, paper CL55-FRI, CLEO/Europe EQEC 2003 Munich 22-27 Jun 2003.

A.M. Chardon, D.P. Shepherd, P. Camy, J.L. Doualan, E. Daran, G. Lacoste, “**Gain measurements at 2.8 μ m and fluorescence spectroscopy in Er:LaF₃ waveguides fabricated by molecular beam epitaxy**”, paper CL4M, CLEO/Europe EQEC Munich 22-27 Jun 2003.

A.K. Mairaj, A.M. Chardon, D.P. Shepherd, D.W. Hewak, “**Laser performance and spectroscopic analysis of optically written channel waveguides in neodymium-doped gallium lanthanum sulphide glass**”, IEEE Journal of Selected Topics in Quantum Electronics, Vol.8(6), pp.1381-1388, 2002.

M. Laroche, A.M. Chardon, J. Nilsson, D.P. Shepherd, W.A. Clarkson, S. Girard, R. Moncorgé, “**Compact diode-pumped passively Q-switched tunable Er-Yb double-clad fiber laser**”, Optics Letters, Vol.27(22) pp.1980-1982, 2002.

A.K. Mairaj, C. Riziotis, A.M. Chardon, P.G.R. Smith, D.P. Shepherd, D.W. Hewak, “**Development of channel waveguide lasers in Nd³⁺-doped chalcogenide (Ga:La:S) glass through photoinduced material modification**”, Applied Physics Letters, Vol.81(20) pp.3708-3710, 2002.

Z.P. Cai, A. Chardon, H.Y. Xu, P. Féron, G. Stéphan, “**Laser characteristics at 1535 nm and thermal effects of an Er:Yb phosphate glass microchip pumped by Ti:sapphire laser**”, Optics Communications, Vol.203 pp.301-313, 2002.

T. Bhutta, A.M. Chardon, D.P. Shepherd, E. Daran, C. Serrano, A. Munoz-Yagüe, “**Low phonon energy Nd:LaF₃ channel waveguide lasers fabricated by molecular beam epitaxy**”, IEEE Journal of Quantum Electronics, Vol.37(11) pp.1469-1477, 2001.

Z.P. Cai, A. Chardon, H.Y. Xu, P. Féron, G.M. Stéphan, “**Investigation of red-shift of an Er:Yb:Kigre phosphate glass microchip laser at 1535nm due to pump thermal loading**”, paper C-PSL106, CLEO/Europe-EQEC Munich, 18-22 Jun 2001.

T. Bhutta, A.M. Chardon, D.P. Shepherd, C. Serrano, and E. Daran, “**Nd:LaF₃ Channel Waveguide Lasers Fabricated by Molecular Beam Epitaxy**”, paper CTuM8, Conference on Lasers and Electro-Optics / Europe, Nice, 2000.

A. Chardon, I. Gravé and J. Falk, “**Low-voltage Q-switching of a diode-pumped Er:Yb:glass laser by a BBO Pockels cell**”, Proc. SPIE Photonics, Devices, and Systems, Vol. 4016, pp. 288-291, 2000.

A. Chardon, P. Féron, G. Recoque and D. Rytz, “**Optimization of diode end-pumped MCAs operating in the blue green spectrum**”, Proc. SPIE High-Power Lasers, Vol. 3264, pp. 49-53, June 1998.

A. Chardon, F. Sanchez and G. Stéphan, “**Polarization switching of an Er:Yb:Cr phosphate glass microchip laser**”, Annales des Télécommunications, Vol. 52, No. 11-12, pp. 588-593, November - December 1997.

Z.P. Cai, H.Y. Xu, A. Chardon and G. Stéphan, “**Ti:sapphire laser end-pumped Nd:YVO₄ microchip laser**”, Journal of Xiamen University (Natural Science Edition), Vol. 36, No. 4, pp. 448-453, August 1997.

F. Sanchez and A. Chardon, “**Pump size optimization in microchip lasers**”, Optical Communications, Vol. 136, pp. 405-409, 1 April 1997.

A. Chardon, “**Study of diode end-pumped solid-state lasers and microchip lasers**”, Ph.D. Thesis, University of Rennes, No 1652, pp. 1-250, December 1996.

F. Sanchez and A. Chardon, “**Transverse modes in microchip lasers**”, Journal of Optical Society America B, Vol. 13, pp. 2869-2871, December 1996.

Z.P. Cai, A. Chardon, F. Sanchez and G. Stéphan, “**Investigation of absorption saturation in diode end-pumped microchip lasers**”, Proc. SPIE High-Power Lasers Solid-State, Gas, Eximer, and Other Advanced Lasers, Vol. 2889, pp. 70-78, September 1996.

CONFERENCE PRESENTATIONS

C. Nelep, G.O. Reymond, M.L. Miramon, N. Agier, L. Aggerbeck, C. Goutel, A. Chardon, G. Cerovic, C. Weisbuch, H. Benisty, “**Genewave™’s reflective AmpliSlide™ substrates dramatically increase fluorescence signals and signal-to-noise ratio in microarray**”, Chips2Hits2005.

M. Laroche, A.M. Chardon, J. Nilsson, D.P. Shepherd, J.K. Sahu, W.A. Clarkson, S. Girard, R. Moncorgé, “**Diode-pumped passively Q-switched tunable Er-Yb double-clad fibre laser**”, paper CL55-FRI, CLEO/Europe EQEC 2003 Munich 22-27 Jun 2003.

A.M. Chardon, D.P. Shepherd, P. Camy, J.L. Doualan, E. Daran, G. Lacoste, “**Gain measurements at 2.8µm and fluorescence spectroscopy in Er:LaF₃ waveguides fabricated by molecular beam epitaxy**”, paper CL4M, CLEO/Europe EQEC Munich 22-27 Jun 2003.

A. Chardon, E. Daran, T. Bhutta, D.P. Shepherd, A. Munoz-Yague, “**Rare-earth-doped LaF₃ waveguide laser devices**”, Y-3, MIOMD 2001 Montpellier, 2-3 Apr 2001.

T. Bhutta, A.M. Chardon, D.P. Shepherd, C. Serrano, and E. Daran, “**Nd:LaF₃ Channel Waveguide Lasers Fabricated by Molecular Beam Epitaxy**”, paper CTuM8, Conference on Lasers and Electro-Optics / Europe, Nice, 2000.

A. Chardon, I. Gravé and J. Falk, “**Low-voltage Q-switching of a diode-pumped Er:Yb:glass laser by a BBO Pockels cell**”, paper 4016-49, Photonics Prague’99, Prague, Czech Republic, June 21-23, 1999.

A. Chardon, I. Gravé and J. Falk, “**Diode-pumped Er:Yb:glass laser electro-optically Q-switched by a low voltage BBO Pockels cell**”, paper ThH3, 1998 OSA Annual Meeting/Interdisciplinary Laser Science Conference XIV, Baltimore, Maryland, U.S.A., October 4-9, 1998.

A. Chardon, P. Féron, G. Recoque and D. Rytz, “**Optimization of diode end-pumped MCAs operating in the blue green spectrum**”, paper 3264-34, SPIE’s International Symposium LASE’98, High-Power Lasers and Applications, San Jose, California, USA, January 24-30, 1998.

A. Chardon, Z.P. Cai, S. Fève, F. Sanchez and G. Stéphan, “**Polarization effects in diode end-pumped Nd:YVO₄ microchip lasers**”, First International Conference on Polarization Effects in Lasers and Spectroscopy, Toronto, Canada, May 26-28, 1997.

Z.P. Cai, A. Chardon, F. Sanchez and G. Stéphan, “**Investigation of absorption saturation in diode end-pumped microchip lasers**”, SPIE’s International Symposium Photonics China, Beijing, China, November 4-5, 1996.

TECHNICAL REPORTS

A.Chardon, “**Optimisation and testing of monolithic and compact, CW and pulsed, solid-state blue lasers**”, Marie Curie Final Report, Proposal n° BRMA- CT98 – 5105, December 1999.

A. Chardon, J. Falk, H. Koo-Kim, I. Gravé and D. Langer, “**Basic technologies for reducing the manufacturing costs of diode-pumped, eye-safe, glass laser range finders**”, Department of Electrical Engineering, University of Pittsburgh, September 1998.

A. Chardon, P. Féron, G. Recoque, G. Stéphan and D. Rytz, “**Microchip lasers emitting in the visible spectrum**”, 1995-1997 report, Laboratoire d’Optronique associé au CNRS, UPRESA 6082, ENSSAT-Université de Rennes I, April 1997.

A. Chardon, Z.P. Cai, S. Fève, F. Sanchez and G. Stéphan, “**Microchip lasers emitting in the infrared spectrum**”, 1995-1997 report, Laboratoire d’Optronique associé au CNRS, UPRESA 6082, ENSSAT-Université de Rennes I, April 1997.

F. Sanchez, K. Aït-Ameur and A. Chardon, “**Far-field analysis of microchip lasers**”, Laboratoire d’Optronique, École Nationale Supérieure de Sciences Appliquées et de Technologie, Lannion, France, February 1997.

A. Chardon, Z.P. Cai, F. Sanchez and G. Stéphan, “**Low threshold, high efficient, Er:Yb:Cr phosphate glass microchip laser**”, Laboratoire d’Optronique, École Nationale Supérieure de Sciences Appliquées et de Technologie, Lannion, France, December 1996.

A. Chardon, B. Meziane, V. Guérec, P. LeBoudec and F. Sanchez, “**Transient and self-pulsing polarization dynamics in erbium-doped fiber lasers**”, Laboratoire d’Optronique, École Nationale Supérieure de Sciences Appliquées et de Technologie, Lannion, France, June 1995.

A. Chardon, “**Optimization of the optical coupling between semiconductor lasers and pigtailed single mode fibers in optical transmitters**”, Alcatel Optronics, Lannion, France, June 1993.