Refereed international papers:

P1 G.Millot, B.Lavorel, R.Saint-Loup and H.Berger,
Journal de Physique (Paris) 16, 1925-1936 (1985):
N_2 collisional narrowing shown by stimulated Raman spectroscopy.

P2 B. Lavorel, G. Millot, R. Saint-Loup, C. Wenger, H. Berger, J.P. Sala, J. Bonamy, and D. Robert,
Journal de Physique (Paris) 47, 417-425 (1986):
Rotational collisional line broadening at high temperatures in the N_2 fundamental Q-branch studied with stimulated Raman spectroscopy.

P3 J.-P.Sala, J.Bonamy, D.Robert, B.Lavorel, G.Millot, and H.Berger,
Chemical Physics 106, 427-439 (1986):
A rotational thermalisation model for the calculation of collisionally narrowed isotropic Raman scattering spectra. Application to the S.R.S. N_2 Q-branch.

P4 B.Lavorel, G.Millot, J.Bonamy, and D.Robert,
Chemical Physics 115, 69-78 (1987):
Study of rotational relaxation fitting laws from calculation of SRS N_2 Q-branch.

P5 G.Millot, B Lavorel, R.Chaux, R.Saint-Loup, G.Pierre, H.Berger, J.I.Steinfeld, and B.Foy,
Journal of Molecular Spectroscopy 127, 156-177 (1988):
High resolution stimulated Raman spectroscopy of methane $^{13}CD_4$ in the pentad region.

P6 G.Millot, J.Hetzler, B.Foy, and J.I.Steinfeld,
Journal of Chemical Physics 88, 6742-6746 (1988):
Infrared double resonance of SiH_4 with a tunable diode laser: two-photon absorptions and relaxation times.

P7 H.W.Schrötter, H.Berger, J.-P.Boquillon, B.Lavorel, and G.Millot,
Croatica Chemica Acta 61, 487-503 (1988):
High-resolution non-linear Raman spectroscopy in gases.

P8 B.Foy, J.Hetzler, G.Millot, and J.I.Steinfeld,
Journal of Chemical Physics 88, 6838-6852 (1988):
State-to-state rotational energy transfer in methane ($^{13}CD_4$) from infrared double resonance experiments with a tunable diode laser.

P9 B.Lavorel, G.Millot, M.Lefebvre, and M.Péalat,
Journal of Raman Spectroscopy 19, 375-378 (1988):
Dunham coefficients of $^{14}N_2$ from CARS measurements of high vibrational states in a low pressure discharge.

P10 R.Chaux, C.Milan, G.Millot, B.Lavorel, R.Saint-Loup, and J.Moret-Bailly,
Journal of Optics (Paris) 19, 3-14 (1988):
Wavelength measurements of continuous wave lasers with a wavemeter. Applications to high-resolution Raman-spectra calibration.

P11 G.Pierre, G.Millot, A.Valentin, L.Henry, B.Foy, and J.I.Steinfeld,
Canadian Journal of Physics 66(7), 622-629 (1988):
Absorption-sepctrum of $^{13}CD_4$ methane in the 1000 cm^{-1} region. Analysis of the ν_2/ν_4 dyad.

P12 G.Millot, J.Hetzler, G.Pierre, and J.I.Steinfeld,

Spectrochimica Acta A 45 , 5-15 (1989):
Infrared double-resonance lineshapes in strongly pumped spherical-top molecules.

P13 J.Hetzler, G.Millot, and J.I.Steinfeld,
Journal of Chemical Physics 90, 5434-5442 (1989):
Rotationally mediated vibration-rotation and vibration-translation energy transfer in silane.

P14 B.Lavorel, G.Millot, Q.L.Kou, G.Guelachvili, K.Bouzouba, P.Lepage, Vl.G.Tyuterev, and G.Pierre,
Journal of Molecular Spectroscopy 143, 35-49 (1990):
Study ν_1/ν_3 interacting bands of silane: analysis of infrared and Raman spectra.

P15 H.W.Schrötter, H.Berger, J.-P.Boquillon, B.Lavorel, and G.Millot,
Journal of Raman Spectroscopy 21, 781-789 (1990):
High resolution nonlinear Raman spectroscopy in gases.

P16 G. Millot,
Journal of Chemical Physics 93, 8001-8010 (1990):
Rotationally inelastic rates over a wide temperature range based on an energy corrected sudden-exponential-power theoretical analysis of Raman line broadening coefficients and Q-branch collapse.

P17 B.Lavorel, G.Millot, R.Saint-Loup, H.Berger, L.Bonamy, J.Bonamy, and D.Robert,
Journal of Chemical Physics 93, 2185-2191 (1990):
Study of collisional effects on band shapes of the □□□□□ Fermi dyad in CO_2 gas with stimulated Raman spectroscopy: Simultaneous line mixing and Dicke narrowing in the □□ band.

P18 M.L.Gonze, R.Saint-Loup, J.Santos, B.Lavorel, R.Chaux, G.Millot, H.Berger, L.Bonamy, J.Bonamy, and D.Robert,
Chemical Physics 148, 417-428 (1990):
Collisional line broadening and line shifting in N_2-CO_2 mixture studied by inverse Raman spectroscopy.

P19 R.Saint-Loup, B.Lavorel, G Millot, C.Wenger, and H.Berger,
Journal of Raman Spectroscopy 21, 77-83 (1990):
Enhancement of sensitivity in high resolution stimulated Raman spectroscopy of gases: Application to the $2\nu_2$ (1285 cm^{-1}) band of CO_2.

P20 G. Millot, A. Boutahar, B. Lavorel, C. Wenger, R. Saint-Loup, and H. Berger,
Journal of Raman Spectroscopy 21, 803-808 (1990):
Measurements of collisional linewidths in the stimulated Raman Q-branch of the ν_1 band of silane.

P21 A.Tabyaoui, B.Lavorel, G.Millot, R.Saint-Loup, R.Chaux, and H.Berger,
Journal of Raman Spectroscopy 21, 809-812 (1990):
Accurate spectroscopic constants of nitrogen determined from stimulated Raman spectra of the fundamental and first hot bands.

P22 B.Lavorel, G.Millot, R.Saint-Loup, H.Berger, L.Bonamy, J.Bonamy, and D.Robert,
Journal of Chemical Physics 93, 2176-2184 (1990):
Study of collisional effects on band shapes of the $\nu_1/2\nu_2$ Fermi dyad in CO_2 gas with stimulated Raman spectroscopy: Rotational and vibrational relaxation in the ν_1 band.

P23 J.Bonamy, L.Bonamy, D.Robert, M.L.Gonze, G.Millot, B.Lavorel, and H.Berger,
Journal of Chemical Physics 94, 6584-6589 (1991):
Rotational relaxation of nitrogen in ternary mixtures N_2-CO_2-H_2O: consequences in coherent anti-Stokes Raman spectroscopy thermometry.

P24 G.Millot, B.Lavorel, and J.I.Steinfeld,
Journal of Chemical Physics 95, 7938-7946 (1991):
Collisional broadening, line shifting and line mixing in the stimulated Raman $2\nu_2$ Q-branch of CH_4.

P25 J.I.Steinfeld, P.Ruttenberg, G.Millot, G.Fanjoux, and B.Lavorel,
Journal of Physical Chemistry 95, 9638-9647 (1991):
Scaling laws for inelastic collision processes in diatomic molecules.

P26 G.Millot, R.Saint-Loup, J.Santos, R.Chaux, H.Berger, and J.Bonamy,
Journal of Chemical Physics 96, 961-971 (1992):
Collisional effects in the stimulated Raman Q-branch of O_2 and O_2-N_2.

P27 G.Millot, B.Lavorel, and J.I.Steinfeld,
Journal of Quantum Spectroscopy and Radiative Transfer 47, 81-90 (1992):
Collisional broadening of rotational lines in the stimulated Raman pentad Q-branch of CD_4.

P28 B.Lavorel, G.Millot, M.Rotger, G.Rouillé, H.Berger, and H.W.Schrötter,
Journal of Molecular Structure 273, 49-59 (1992):
Non-linear Raman spectroscopy in gases.

P29 G.Rouillé, G.Millot, R.Saint-Loup, and H.Berger,
Journal of Molecular Spectroscopy 154, 372-382 (1992):
High-Resolution stimulated Raman spectroscopy of O_2.

P30 B.Lavorel, R.Pykhov, and G.Millot,
Journal of Quantum Spectroscopy and Radiative Transfer 49, 579-584 (1993):
Line mixing in the stimulated Raman spectrum of the ν_1 band of SiH_4 at 0.4-1.0 bar.

P31 G.Millot, B.Lavorel, G.Fanjoux, and C.Wenger,
Applied Physics B56, 287-293 (1993):
Determination of temperature by stimulated Raman scattering of molecular Nitrogen, Oxygen and Carbon dioxide.

P32 G.Millot, C.Roche, R.Saint-Loup, R.Chaux, H.Berger, and J.Santos,
Chemical Physics 173, 505-512 (1993):
Collisional narrowing and shifting in the Raman Q-branch of oxygen at high density.

P33 G.Fanjoux, G.Millot, R.Saint-Loup, R.Chaux, and L.Rosenmann,
Journal of Chemical Physics 101, 1061-1071 (1994):
Coherent anti-Stokes Raman spectroscopy study of collisional broadening in the O_2-H_2O Q-branch.

P34 C.Roche, G.Millot, R.Chaux, and R.Saint-Loup,
Journal of Chemical Physics 101, 2863-2870 (1994):
Rotational and vibrational relaxation of the Fermi $\nu_1/2\nu_2$ dyad in CO_2 gas from Raman-infrared double resonance experiments.

P35 B.Lavorel, G.Millot, G.Fanjoux, and R.Saint-Loup,
Journal of Chemical Physics 101, 174-177 (1994):
Study of collisional effects on band shapes of the $\nu_1/2\nu_2$ Fermi dyad in CO_2 gas with stimulated Raman spectroscopy. III. Modeling of collisional narrowing and study of vibrational shifting and broadening at high temperature.

P36 L.Bonamy, J.Bonamy, D.Robert, S.I.Temkin, G.Millot, and B.Lavorel,
Journal of Chemical Physics 101, 7350-7356 (1994):
Line coupling in Anisotropic Raman Branches.

P37 A. Boutahar, L. Touzani, M. Loëte, G. Millot, and B. Lavorel,
Journal of Molecular Spectroscopy 169, 38-57 (1995):
Raman intensities of the dyad ν_1/ν_3 of $^{28}SiH_4$.

P38 L. Touzani, M. Loëte, B. Lavorel, and G. Millot,
Journal of Molecular Spectroscopy 171, 58-85 (1995):
Measurement and Analysis of the Raman intensities of $^{12}CD_4$.

P39 B.Lavorel, G. Fanjoux, G. Millot, L. Bonamy, and F. Emond,
Journal of Chemical Physics 103, 9903-9906 (1995):
Line coupling effects in anisotropic Raman Q Branches of the $\nu_1/2\nu_2$ Fermi dyad in CO_2.

P40 G. Fanjoux, G. Millot, and B. Lavorel,
Journal of Raman Spectroscopy 27, 475-483 (1996):
Collisional Shifting and Broadening Coefficients for the Rovibrational Anisotropic S(J) Lines of Nitrogen Studied by Inverse Raman Spectroscopy.

P41 G. Millot, B. Lavorel, and G. Fanjoux,
Journal of Molecular Spectroscopy 176, 211-218 (1996):
Pressure Broadening, Shift, and Interference Effect for a multiplet Line in the Rovibrational Anisotropic Stimulated Raman Spectrum of Molecular Oxygen.

P42 G. Fanjoux, R. Chaux, and G. Millot,
Applied Physics B 62, 521-525 (1996):
Shot-by-shot frequency calibration of CARS spectra: Application to the measurement of the collisional line shift in oxygen.

P43 G. Millot, G. Fanjoux, and B. Lavorel,
Journal of Chemical Physics 104, 5347-5348 (1996):
Fitting and scaling laws for high temperature Q branch collapse in the O_2 stimulated Raman spectra in O_2-H_2O mixtures.

P44 P. Tchofo Dinda, G. Millot, E. Seve, and M. Haelterman,
Optics Letters 21, 1640-1642 (1996):
Demonstration of a nonlinear gap in the modulational instability spectra of wave propagation in highly birefringent fibers.

P45 E. Seve, P. Tchofo Dinda, G. Millot, M. Remoissenet, J.M. Bilbault, and M. Haelterman,
Physical Review A 54, 3519-3534 (1996):
Modulational instability and critical regime in a highly birefringent fiber.

P46 G. Millot, E. Sève, and S. Wabnitz,

Physical Review Letters 79, 661-664 (1997):
Polarization symmetry breaking and pulse train generation from the modulation of light waves.

P47 P. Tchofo Dinda, G. Millot, and S. Wabnitz,
Optics Letters 22, 1595-1597 (1997):
Polarization switching of stimulated Raman scattering in optical fibers by dual-frequency pumping.

P48 G. Millot, S. Pitois, P. Tchofo Dinda, and M. Haelterman,
Optics Letters 22, 1686-1688 (1997):
Observation of modulational instability induced by velocity-matched cross-phase modulation in a normally dispersive bimodal fiber.

P49 G. Millot, E. Sève, S. Wabnitz, and S. Trillo,
Physical Review Letters 80, 504-507 (1998):
Observation of a novel large-signal four-photon instability in optical wave mixing.

P50 S. Trillo, G. Millot, E. Sève, and S. Wabnitz,
Applied Physics Letters 72, 150-152 (1998):
Failure of phase-matching concept in large-signal parametric frequency conversion.

P51 G. Millot, E. Sève, S. Wabnitz, and M. Haelterman,
Journal of Optical Society of America B 15 , 1266-1277 (1998):
Observation of induced modulational polarization instabilities and pulse train generation in the normal dispersion regime of a birefringent optical fiber.

P52 G. Millot, E. Sève, S. Wabnitz, and M. Haelterman,
Optics Letters 23 , 511-513 (1998):
Dark - soliton - like pulse train generation from induced modulational polarization instability in a birefringent fiber.

P53 G. Fanjoux, B. Lavorel, and G. Millot,
Journal of Raman Spectroscopy 29, 391-397 (1998):
Collisional shifting and broadening coefficients for the rovibrational anisotropic lines of the $\nu_1/2\nu_2$ Fermi dyad in CO_2 gas studied by stimulated Raman spectroscopy.

P54 G. Millot, and C. Roche,
Journal of Raman Spectroscopy 29, 313-320 (1998):
State-to-state vibrational and rotational energy transfer in CO_2 gas from time-resolved Raman-infrared double resonance experiments.

P55 P. Tchofo Dinda, G. Millot, and S. Wabnitz,
Journal of Optical Society of America B 15, 1433-1441 (1998):
Polarization switching and suppression of stimulated Raman scattering in birefringent optical fibers.

P56 E. Sève, G. Millot, S. Trillo, and S. Wabnitz
Journal of Optical Society of America B 15, 2537-2551 (1998):
Large-signal enhanced frequency conversion in a birefringent optical fibers: theory and experiments.

P57 S. Pitois, G. Millot, and S. Wabnitz,
Physical Review Letters 81, 1409-1412 (1998):
Polarization domain wall solitons with counterpropagating laser beams.

P58 S. Pitois, G. Millot, and P. Tchofo Dinda,
Optics Letters 23, 1456-1458 (1998):
Influence of parametric four-wave mixing effects on stimulated Raman scattering in bimodal optical fibers.

P59 E. Sève, G. Millot, and S. Wabnitz,
Optics Letters 23 , 1829-1831 (1998):
Buildup of terahertz vector dark-soliton trains from induced modulation instability in highly birefringent optical fiber.

P60 S. Pitois, G. Millot, P. Grelu, and M. Haelterman,
Physical Review E 60, 994-1000 (1999):
Generation of optical domain-wall structures from modulational instability in a bimodal fiber.

P61 E. Sève, G. Millot, S. Wabnitz, T. Sylvestre, and H. Maillotte,
Journal of Optical Society of America B 16, 1642-1650 (1999):
Generation of vector dark soliton trains by induced modulational instability in a highly birefringent fiber.

P62 P. Kockaert, M. Haelterman, S. Pitois, and G. Millot,
Applied Physics Letters 75, 2873-2875 (1999):
Isotropic polarization modulational instability and domain walls in spun fibers.

P63 F. Gutty, S. Pitois, P. Grelu, G. Millot, M.D. Thomson, and J.M. Dudley,
Optics Letters 24, 1389-1391 (1999):
Generation and characterization of 0.6 THz polarisation domain wall trains in an ultra-low birefringence spun fiber.

P64 J.M. Dudley, M.D. Thomson, F. Gutty, S. Pitois, P. Grelu, and G. Millot,
Electronics Letters 35, 2042-2044 (1999):
Complete intensity and phase characterisation of optical pulse trains at terahertz repetition rates.

P65 E. Sève, G. Millot, and S. Trillo,
Physical Review E 61, 3139-3150 (2000):
Strong four photon conversion regime of cross-modulation induced modulational instability.

P66 P. Tchofo Dinda, G. Millot, and P. Louis,
Journal of Optical Society of America B 17, 1730-1739 (2000):
Simultaneous achievement of suppression of modulational instability and stimulated Raman scattering in optical fibers by orthogonal polarization pumping.

P67 S. Pitois, G. Millot, and S. Wabnitz,
Journal of Optical Society of America B 18, 432-443 (2001):
Nonlinear polarization dynamics of counterpropagating waves in an isotropic optical fiber: theory and experiments.

P68 J. Dudley, F. Gutty, S. Pitois, and G. Millot,
IEEE Journal of Quantum Electronics 37, 587-594 (2001):
Complete characterization of THz pulse trains generated from nonlinear processes in optical fibers.

P69 P. Tchofo Dinda, E. Sève, G. Millot, T. Sylvestre, H. Maillotte, and E. Lantz,
Optics Communications 192, 107-121 (2001):
Raman-assisted three-wave mixing of non-phase-matched waves in optical fibers. Application to wide-range frequency conversion.

P70 G. Millot, P. Tchofo Dinda, E. Sève, and S. Wabnitz,
Optical Fiber Technology (Invited Paper) 7, 170-205 (2001):
Modulational instability and stimulated Raman scattering in normally dispersive highly birefringent fibers.

P71 S. Pitois, M. Haelterman, and G. Millot,
Optics Letters 26, 780-782 (2001):
Bragg modulational instability induced by a dynamical grating in an optical fiber.

P72 J.M. Dudley, A.C. Peacock, and G. Millot,
Optics Communications 193, 253-259 (2001):
The cancellation of the dispersive and nonlinear phase shift across the fundamental optical fiber soliton : a pedagogical note.

P73 G. Millot,
Optics Letters 26, 1391-1393 (2001):
Multiple four-wave mixing induced modulational instability in highly birefringent fibers.

P74 F. Gutty, P. Grelu, N. Huot, G. Vienne, and G. Millot,
Electronics Letters 37, 745-746 (2001):
Stabilisation of mode-locking in a fibre ring laser through pulse bunching.

P75 G. Millot, S. Pitois, and P. Tchofo Dinda,
Journal of Optical Society of America B 19, 454-460 (2002):
Modulational instability processes in optical isotropic fibers under dual-frequency circular-polarization pumping.

P76 S. Pitois, M. Haelterman, and G. Millot,
Journal of Optical Society of America B 19, 782-791 (2002):
Theoretical and experimental study of Bragg modulational instability in a dynamic fiber grating.

P77 P. Tchofo Dinda and G. Millot,
Optics Letters 27, 225-227 (2002):
Strong reduction of optimum pump power for efficient wave conversion in optical fibers with dual-frequency circularly polarized pump waves.

P78 G. Millot and J.M. Dudley,
Applied Optics (Engineering and Laboratory Notes) 41, 2589-2591 (2002):
Polarization-mode dispersion measurements in high-birefringence fibers by means of stimulated Raman scattering.

P79 G. Millot, A. Sauter, L. Provino, J.M. Dudley, and R.W. Windeler,
Optics Letters 27, 695-697 (2002):
Polarization mode dispersion and vectorial modulational instability in air-silica microstructure fiber.

P80 P. Grelu, F. Gutty, and G. Millot,
IEEE Photonics Technology Letters 14, 672-674 (2002):Pseudo-random pulse sequence characterization with frequency-resolved optical gating.

P81 S. Pitois, J. Fatome, and G. Millot,
Optics Letters 27, 1729-1731 (2002):

Generation of 160-GHz transform-limited pedestal-free pulse train through multiwave mixing compression of a dual frequency beat signal.

P82 P. Tchofo Dinda, A. Labruyere, A. B. Moubissi, K. Nakkeeran, J. Fatome, S. Pitois, and G. Millot,
Annales des Télécommunications (invited paper) 58, 1785-1808 (2003):
Methodology for designing densely dispersion-managed optical fiber systems for ultra-fast optical communication.

P83 C. Finot, G. Millot, C. Billet, and J.M. Dudley,
Optics Express 11, 1547-1552 (2003):
Experimental generation of parabolic pulses via Raman amplification in optical fibers.

P84 J. Fatome, S. Pitois, P. Tchofo Dinda, and G. Millot,
Optics Express 11, 1553-1558 (2003):
Experimental demonstration of 160-GHz densely dispersion-managed soliton transmission in a single channel over 896 km of commercial fibres.

P85 S. Pitois and G. Millot,
Optics Communications 226 , 415-422 (2003):
Experimental observation of a new modulational instability region induced by fourth-order dispersion in a normally dispersive single-mode optical fiber.

P86 J. Fatome, S. Pitois, and G. Millot,
Optical Fiber Technology 10, 73-78 (2004):
Sensitivity of SHG-FROG for the characterization of ultra-high-repetition-rate telecommunication laser sources.

P87 S. Pitois, A. Sauter, and G. Millot,
Optics Letters 29, 599-601 (2004):
Simultaneous achievement of polarization attraction and Raman amplification in isotropic optical fibers.

P88 J. Fatome, S. Pitois, and G. Millot,
Optics Communications 234, 29-34 (2004):
Influence of third-order dispersion on the temporal Talbot effect.

P89 R. Radhakrishnan, P. Tchofo Dinda, and G. Millot,
Physical Review E 69, 46607-1-8 (2004):
Efficient control of the energy exchange due to the Manakov vector-soliton collision.

P90 A. Picozzi, M. Haelterman, S. Pitois, and G. Millot,
Physical Review Letters 92, 143906 (2004):
Incoherent solitons in instantaneous response nonlinear media.

P91 B. Kibler, C. Billet, J.-M. Dudley, R.S. Windeler, and G. Millot,
Optics Letters 29, 1903-1905 (2004):
Effects of structural irregularities on modulational instability phasematching in photonic crystal fibers.

P92 J. Fatome, S. Pitois, P. Tchofo Dinda, G. Millot, E. Le Rouzic, B. Cuenot, E. Pincemin, and S. Gosselin,
IEEE Photonics Technology Letters 16, 2365-2367 (2004):

Effectiveness of fiber lines with symmetric dispersion swing for 160 Gb/s terrestrial transmission systems.

P93 C. Finot, G. Millot, S. Pitois, and J.M. Dudley,
IEEE Journal of Selected Topics in Quantum Electronics 10, 1211-1218 (2004):
Numerical and experimental study of parabolic pulses generated via Raman amplification in standard optical fibers.

P94 C. Finot, G. Millot, and J.M. Dudley,
Optics Letters 29, 2533-2535 (2004):
Asymptotic characteristics of parabolic similariton pulses in optical fiber amplifiers.

P95 C. Finot and G. Millot,
Optics Express 12, 5104-5109 (2004):
Synthesis of optical pulses by use of similaritons.

P96 C. Finot, S. Pitois, and G. Millot,
Optics Letters 30, 1776-1778 (2005):
Renerative 40 Gbit/s wavelength converter based on similariton generation.

P97 C. Finot and G. Millot,
Optics Express 13, 5825-5830 (2005):
Interactions between optical parabolic pulses in a Raman fiber amplifier.

P98 C. Finot and G. Millot,
Optics Express 13, 7653-7665 (2005):
Collisions between similaritons in optical amplifiers.

P99 S. Pitois, A. Picozzi, G. Millot, H.R. Jauslin, and M. Haelterman,
Europhysics Letters 70, 88-94 (2005):
Polarization and modal attractors in conservative counterpropagating four-wave interaction.

P100 A. Sauter, S. Pitois, G. Millot, and A. Picozzi,
Optics Letters 30, 2143-2145 (2005):
Incoherent modulational instability in instantaneous response nonlinear media.

P101 P. Tchofo-Dinda, A. Tonello, S. Pitois, G. Millot, E. Le Rouzic, B. Cuenot, S. Gosselin, and M. Joindot,
Optics Communications 256, 294-304 (2005):
Optimisation of wavelength division multiplexing in Nx160 Gb/s terrestrial transmission systems.

P102 J. Fatome, S. Pitois, et G. Millot,
Electronics Letters 41, 1391-1392 (2005):
320/640-GHz high quality pulse sources based on multiple Four Wave Mixing in highly non linear optical fiber.

P103 D. Massoubre, J.-L. Oudar, J. Fatome, S. Pitois, G. Millot, J. Decobert, and J. Landreau,
Optics Letters 31, 537-539 (2006):
All-optical extinction ratio enhancement of a 160 GHz pulse train using a saturable absorber vertical microcavity.

P104 J. Fatome, S. Pitois and G. Millot,
Optical Fiber Technology 12(3), 243-250 (2006):

Measurement of Nonlinear and Chromatic Dispersion Parameters of Optical Fibers using Modulation Instability.

P105 J. Fatome, S. Pitois, P. Tchofo-Dinda, D. Erasme et G. Millot,
Optics Communications 260, 548-553 (2006) :
Comparison of conventional and dense dispersion managed systems for 160 Gb/s transmissions.

P106 J. Fatome, S. Pitois and G. Millot,
Journal of Quantum Electronics 42(10), 1038-1046 (2006):
20-GHz to 1-THz repetition rate pulse sources based on multiple four wave mixing in optical fibers.

P107 C. Finot, J.M. Dudley and G. Millot,
Optical Fiber Technology 12(3), 217-226 (2006):
Generation of dark solitons by interactions between similaritons in a Raman fibre amplifier.

P108 S. Pitois, C. Finot, J. Fatome, B. Sinardet and G. Millot,
Optics Communications 260, 301-306 (2006):
Generation of 20-GHz picosecond pulse trains in the normal and anomalous dispersion regimes of optical fibers.

P109 A. Tonello, S. Wabnitz, S. Pitois, G. Millot, T. Martynkien, W. Urbanczyk, J. Wojcik, A. Locatelli, M. Conforti and C. De Angelis,
Optics Express 14, 397-404 (2006):
Frequency tunable polarization and intermodal modulation instability in high birefringence holey fiber.

P110 J.-M. Dudley, C. Finot, D.J. Richardson and G. Millot,
Nature Physics 3(9), 597-603 (2007) article sélectionné par le Virtual Journal for Ultrafast Science 6 (Octobre 2007) :
Self-similarity in ultrafast nonlinear optics.

P111 C. Finot, J. Fatome, S. Pitois and G. Millot,
IEEE Photonics Technology Letters 19(21-24), 1711-1713 (2007):
All-Fibered High-Quality Low Duty-Cycle 20-GHz and 40-GHz Picosecond Pulse Sources.

P112 B. Barviau, C. Finot, J. Fatome and G. Millot,
Electronics Letters 43(16), 886-887 (2007):
Generation from continuous waves of frequency combs with large overall bandwidth and tunable central wavelength.

P113 J. Fatome, S. Pitois, D. Massoubre, G. Millot *et al.*,
Optics Communications 279(2), 364-369 (2007):
Cascadability and reshaping properties of a saturable absorber inserted inside a RZ transmission line for future 160-Gbit/s all-optical 2R-regenerators.

P114 C. Finot, B. Barviau, G. Millot, A. Guryanov, A. Sysoliatin and S. Wabnitz,
Optics Express 15(24), 15824-15835 (2007), article sélectionné par le Virtual Journal for Ultrafast Science 7 (Mars 2008) :
Parabolic pulse generation with active or passive dispersion decreasing optical fibers.

P115 J. Fatome, S. Pitois, A. Kamagate, G. Millot, D. Massoubre and J.-L. Oudar,
IEEE Photonics Technology Letters 19 (2-4), 245-247 (2007):
All-optical reshaping based on a passive saturable absorber microcavity device for future

160-Gb/s applications.

P116 J. Fatome, J. Garnier, S. Pitois, M. Petit, G. Millot, M. Gay, B. Clouet, L. Bramerie and J.-C. Simon,
Optical Fiber Technology 14(1), 84-91 (2008):
All-Optical Measurements of Background, Amplitude and Timing Jitters for high speed pulse trains or prbs sequences using autocorrelation function.

P117 B. Kibler, C. Finot, G. Gadret, G. Millot, J. Wojcik, M. Szpulak and W. Urbanczyk,
Electronics Letters 44(23), 1370-U50 (2008):
Second zero dispersion wavelength measurement through soliton self-frequency shift compensation in suspended core fibre.

P118 K. Hammani, Kamal, C. Finot, J.-M. Dudley and G. Millot,
Optics Express 16(21), 16467-16474 (2008):
Optical rogue-wave-like extreme value fluctuations in fiber Raman amplifiers.

P119 C. Fortier, B. Kibler, J. Fatome, C. Finot, S. Pitois and G. Millot,
Laser Physics Letters 5(11), 817-820 (2008):
All-fibered high-quality low duty-cycle 160-GHz femtosecond pulse source.

P120 K. Hammani, C. Finot, S. Pitois, J. Fatome and G. Millot,
Electronics Letters 44(21), 1239-U18 (2008):
Real-time measurement of long parabolic optical similaritons.

P121 A. Picozzi, S. Pitois and G. Millot,
Physical Review Letters 101(9), Article Number 093901 (2008):
Spectral incoherent solitons: A localized soliton behavior in the frequency domain.

P122 C. Fortier, J. Fatome, S. Pitois, F. Smektala, G. Millot, J. Troles, F. Desevedavy, P. Houizot, L. Brilland and N. Traynor,
Optics Express 16(13), 9398-9404 (2008):
Experimental investigation of Brillouin and Raman scattering in a 2SG sulfide glass microstructured chalcogenide fiber.

P123 S. Pitois, J. Fatome and G. Millot,
Optics Express 16(9) 6646-6651 (2008):
Polarization attraction using counterpropagating waves in optical fiber at telecommunication wavelengths.

P124 C. Finot, G. Millot and J.M. Dudley
Fiber and Integrated Optics 27(6) 505-515 (2008):
Parabolic pulse amplifiers.

P125 B. Barviau, B. Kibler, A. Kudlinski, A. Mussot, G. Millot and A. Picozzi,
Optics Express, 17(9), 7392-7406 (2009):
Experimental signature of optical wave thermalization through supercontinuum generation in photonic crystal fiber.

P126 S. Pitois, C. Finot, J. Fatome and G. Millot,
Optics Communications 282(5), 1016-1019 (2009):
Design of a continuously tunable delay line using vectorial modulational instability and chromatic dispersion in optical fibers.

P127 K. Hammani, C. Finot and G. Millot,

Optics Letters 34(8), 1138-1140 (2009):
Emergence of extreme events in fiber-based parametric processes driven by a partially incoherent pump wave.

P128 J. Fatome, S. Pitois and G. Millot,
Optics Express 17(15), 12612-12618 (2009):
Experimental evidence of Brillouin-induced polarization wheeling in highly birefringent optical fibers.

P129 C. Finot, JM Dudley, B. Kibler, D.J. Richardson and G. Millot,
IEEE Journal of Quantum Electronics 45(11), 1482-1489 (2009):
Optical parabolic pulse generation and applications.

P130 K. Hammani, C. Finot, B. Kibler and G. Millot,
IEEE Photonics Journal 1(3), 205-212 (2009):
Soliton generation and rogue-wave-like behavior through fourth order scalar modulational instability.

P131 C. Finot, K. Hammani, J. Fatome, JM Dudley and G. Millot,
IEEE Journal of Quantum Electronics 46(2), 205-213 (2010):
Selection of extreme events generated in Raman fiber amplifiers through spectral offset filtering.

P132 Fatome J., Pitois S., Fortier C., Kibler B., Finot C., Millot G., Courde C., Lintz M., Samain E.,
Optics Communications, 283, 2425-2429 (2010):
Multiple four-wave mixing in optical fibers: 1.5–3.4-THz femtosecond pulse sources and real-time monitoring of a 20-GHz picosecond source.

P133 Morin P., Kibler B., Fatome J., Finot C., Millot G.,
Electronics Letters, 46 525-526 (2010):
Group birefringence cancellation in highly birefringent photonic crystal fibre at telecommunication wavelengths.

P134 Kibler B., Fatome J., Finot C., Millot G., Dias F., Genty G., Akhmediev N., Dudley J.M.,
Nature Physics 6(10) 790-795 (2010):
The Peregrine Soliton in nonlinear fibre optics.

P135 Dudley JM, Finot C, Millot G, Garnier J., Genty G., Agafontsev, D., Dias F.,
European Physical Journal-Special Topics 185(1) 125-133 (2010):
Extreme events in optics: Challenges of the MANUREVA project.

P136 Fatome J, Pitois S, Morin P, Millot G.,
Optics Express 18(15) 15311-15317 (2010):
Observation of light-by-light polarization control and stabilization in optical fibre for telecommunication applications.

P137 Morin P., Fatome J, Finot C, Pitois S, Claveau R, Millot G.,
Optics Express 19(18) 17158-17166 (2011):
All-optical nonlinear processing of both polarization state and intensity profile for 40 Gbit/s regeneration applications.

P138 Kozlov V.V., Fatome J., Morin P., Pitois S, Millot G., Wabnitz S.
Journal of Optical Society of America B 28(8) 1782-1791 (2011):
Nonlinear repolarization dynamics in optical fibers: transient polarization attraction.

P139 Hammani K., Wetzel B., Kibler B., Fatome J. , Finot C., Millot G., Akhmediev N., Dudley J.M.,
Optics Letters 36(11) 2140-2142 (2011):
Spectral dynamics of modulation instability described using Akhmediev breather theory.

P140 Finot C., Fatome J., Pitois S., Millot G., Pincemin E.,
Optical Review 18(3) 257-253 (2011):
Active Mamyshev Regenerator.

P141 Hammani K., Kibler B., Finot C., Morin P., Fatome J., Dudley J.M., Millot G.,
Optics Letters 36(2) 112-114 (2011):
Peregrine soliton generation and breakup in standard teelcommunication fibers.

P142 Kibler B., Michel, C.; Kudlinski, Barviau B., Millot G., and Picozzi A.
Physical Review E 84(6) 066605 (2011):
Emergence of spectral incoherent solitons through supercontinuum generation in a photonic crystal fiber.

P143 Hage, C. -H.; Billard, F.; Kibler, B.; Finot C, and Millot G..
Electronics Letters 48(13) 778-780 (2012):
Direct temporal reconstruction of picosecond pulse by cross-correlation in semiconductor device.

P144 Kibler, B.; Fatome, J.; Finot, Millot G.. *et al*.,
Scientific Reports 2,Art. 463 (2012):
Observation of Kuznetsov-Ma soliton dynamics in optical fibre.

P145 Wetzel, Benjamin; Blow, Keith J.; Turitsyn, Sergei K.; Millot G.*et al*.
Optics Express 20(10), 11143-11152 (2012):
Random walks and random numbers from supercontinuum generation.

P146 Fatome, Julien; Morin, Philippe; Pitois, Stephane; and Millot Guy;
IEEE Journal of Selected Topics in Quantum Electronics 18(2), 621-628 (2012):
Light-by-Light Polarization Control of 10-Gb/s RZ and NRZ Telecommunication Signals.

P147 Boucon, A.; Barviau, B.; Fatome, J.; Finot C., Sylvestre T., Lee MW., Grelu P. and and Millot G.;
Applied Physics B-Lasers and Optics 106(2), 283-287 (2012):
Noise-like pulses generated at high harmonics in a partially-mode-locked km-long Raman fiber laser.

P148 Nielsen M.G., Weeber J.-C., Hassan K., Fatome J., Finot C., Kaya S., Markey L., Albrektsen O., Bozhevolnyi, S.I., Millot G., Dereux A.;
Journal of Lightwave Technology 30(19), 3118-3125 (2012):
Grating couplers for fiber-to-fiber characterizations of stand-alone dielectric loaded surface plasmon waveguide components.

P149 Fatome J., Pitois S., Morin P., Assémat E., Picozzi A., Jauslin H.R., Millot G., Sugny D., Kozlov V.V., and Wabnitz S..;
Scientific Reports 2, article 938 (2012):
A universal optical all-fiber omnipolarizer.

P150 Wabnitz S., Picozzi A., Tonello A, Modotto D, Millot G.;
Journal of Optical Society of America B 29(11) 3128-3135 (2012):

Control of signal coherence in parametric frequency mixing with incoherent pumps: narrowband mid-infrared light generation by downconversion of broadband amplified spontaneous emission source at 1550 nm.

P151 Hammani K., Kibler B, Fatome J., Boscolo S., Genty G., Dudley J.M., Millot G., Finot C.;
Optical Fiber Technology 18(5) 248-256 (2012):
Nonlinear spectral shaping and optical rogue events in fiber-based systems.

P152 Kibler B., Barviau B., Michel C., Millot G., Picozzi A ;
Optical Fiber Technology 18(5) 257-267 (2012):
Thermodynamic approach of supercontinuum generation.

P153 Fatome J., El-Mansouri I., Blanchet J.L., Pitois S., Millot G., Trillo S., Wabnitz S.;
Journal of Optical Society of America B 30(1) 99-106 (2013):
Even harmonic pulse train generation by cross-polarization-modulation seeded instability in optical fibers.

P154 Barviau B., Garnier J., Xu G., Kibler B., Millot G., Picozzi A. ;
Physical Review A 87(3) Article 035803 (2013):
Truncated thermalization of incoherent optical waves through supercontinuum generation in photonic crystal fibers.

P155 Wabnitz S., Finot C., Fatome J., Millot G.;
Physics Letters A 377(12) 932-939 (2013):
Shallow water rogue wavetrains in nonlinear optical fibers.

P156 Varlot B., Wabnitz S., Fatome J., Millot G., Finot C.;
Optics Letters 38(19) 3899-3902 (2013):
Experimental generation of optical flaticon pulses.

P157 Amrani F., Kibler B., Grelu P., Wabnitz S., Trillo S., Millot G.;
Optics Letters 38(24) 5327-5330 (2013):
Cross-phase modulational instability induced by Raman scattering in highly birefringent fiber.

P158 Frisquet B., Kibler B., Millot G. ;
Physical Review X 3(4) Article 041032 (2013);
Collision of Akhmediev Breathers in Nonlinear Fiber Optics.

P159 Fatome J., Sugny D., Pitois S.,Morin P., Guasoni M., Picozzi A., Jauslin H.R., Finot C., Millot G., Wabnitz S.;
Photonics Research 1(3) 115-123 (2013):
All-optical regeneration of polarization of a 40 Gbit/s return-to-zero telecommunication signal [Invited].

P160 Frisquet B., Chabchoub A., Fatome J., Finot C., Kibler B., Millot G. :
Physical Review A 89 Article 023821 (2014);
Two-stage linear-nonlinear shaping of an optical frequency comb as rogue nonlinear-Schrödinger-equation-solution generator.

P161 Guasoni M., Assemat E., Morin P., Picozzi A., Fatome J., Pitois S., Jauslin H.R., Millot G., Sugny D. :
Journal of Optical Society of America B 31(3) 572-580 (2014):
Line of polarization attraction in highly birefringent optical fibers.

P162 Picozzi A., Garnier J., Hansson T., Suret P., Randoux S., Millot G., Christodoulides D.N.:
Physics Reports – Review Section of Physics Letters 542(1) 1-132 (2014):
Optical wave turbulence: Toward a unified nonequilibrium thermodynamic formulation of statistical nonlinear optics (Review Article).

P163 Fatome J., Finot C., Millot G., Armaroli A., Trillo S.:
Physical Review X 4, Article 021022 (2014):
Observation of optical undular bores in multiple four-wave mixing.
"Viewpoint" in **Physics** (APS) : B. Wetzel, R. Morandotti, A. Pasquazi, "Water waves in optical fibers,"7, 48 (2014).

P164 Millot G. and Wabnitz S.:
Journal of Optical Society of America B [Invited] 31(11) 2754-2768 (2014):
Nonlinear polarization effects in optical fibers: polarization attraction and modulation instability.

P165 Conforti M., Mussot A., Fatome J., Picozzi A., Pitois S., Finot C., Haelterman M., Kibler B., Michel C., Millot G.:
Physical Review A 91(2), Article 023823 (2015):
Turbulent dynamics of an incoherently pumped passive optical fiber cavity: Quasisolitons, dispersive waves, and extreme events.

- ***Other international publications :***

[P1] B. Kibler, K. Hammani, J. Fatome, G. Millot, C. Finot, G. Genty, M. Erkintalo, B. Wetzel, F.Dias, N. Akhmediev, J.M. Dudley. "*The Peregrine Soliton Observed At Last*". Optics & Photonics News **22**, 30, December 2011. (OPN's special December issue, Optics in 2011, highlights the most exciting optics research to emerge in the preceding 12 months).

[P2] G. Millot, C. Finot, J. Fatome, K. Hammani, S. Pitois, B. Kibler. "*Nonlinear optical reshaping for ultrafast optical-fiber applications*". SPIE Newsroom, January 2011. DOI: 10.1117/2.1201012.003364.

[P3] B. Wetzel, J.M. Dudley, M. Erkintalo, G. Genty, K. Hammani, B. Kibler, J. Fatome, C. Finot, G.Millot, F. Dias, N. Akhmediev. "*New analysis of old instabilities*". SPIE Newsroom, May 2011. DOI:10.1117/2.1201104.003697.

- ***Patent :***

S. Pitois, J. Fatome, P. Morin, G. Millot, "Procédé et dispositif pour le contrôle d'un paramètre physique d'un signal optique," Brevet FR No.11/02472 (2011). European extension in progress PAT2089688EPPC.

- ***Chapters in books :***

O1 H.W. Schrötter, H. Frunder, H. Berger, J.-P. Boquillon, B. Lavorel, and G. Millot,
Advances in non-linear spectroscopy, edited by Clark and Hester, Chapter 3, p.97-147, J.Wiley and Sons (1988):
High-resolution CARS and Inverse Raman Spectroscopy.

O2 H. Berger, B. Lavorel, and G.Millot,

Applied laser spectroscopy, edited by D.L.Andrews, Chapter 7, p.267-317, VCH Publishers Inc. USA (1992):
Nonlinear Raman spectroscopy.

O3 G.Millot, B.Lavorel, and H.Berger,
Recent advances in coherent Raman spectroscopy, edited by G.Marowsky and V.V.Smirnov, Springer-Verlag, p.99-115 (1992):
Collisional relaxation processes studied by coherent Raman spectroscopy for major species present in combustion.

O4 H.Berger, B.Lavorel, and G.Millot,
Recent trends in Raman spectroscopy, edited by S.B.Banerjee and S.S.Jha, World Scientific, p.65-77 (1992):
High Resolution Stimulated Raman spectroscopy of gases.

O5 B.Lavorel, G.Millot, and H.Berger,
Recent advances in coherent Raman spectroscopy, edited by G.Marowsky and V.V.Smirnov, Springer-Verlag, p.87-98 (1992):
High Resolution Coherent Raman spectroscopy: studies of molecular structures.

O6 E. Sève, P. Tchofo-Dinda, G. Millot, and M. Haelterman,
Supercomputation in Nonlinear and Disordered Systems. Algorithms, Applications and Architectures, edited by L. Vasquez, F. Tirado, I. Martin, World Scientific, Singapore, p. 391 (1997):
Instability of waves propagating in a highly birefringent fiber.

O7 G. Millot, S. Pitois, E. Sève, P. Tchofo-Dinda, S. Wabnitz, S. Trillo, M. Haelterman, and J.M. Soto Crespo,
New Trend in Optical Soliton Transmission Systems, edited by A. Hasegawa, Solid-State Science and Technology Library (vol.5) Klumer academics publishers, Dordrecht, p. 53-67 (1998):
Generation of high-repetition-rate dark soliton trains and frequency conversion in optical fibers.

O8 G. Millot, S. Pitois, E. Sève, P. Tchofo-Dinda, P. Grelu, S. Wabnitz, M. Haelterman, and S. Trillo,
Optical Solitons: Theoretical Challenges and Industrial Perspectives, edited by V. Zakharov and S. Wabnitz, Les Editions de Physique-Springer Verlag, Les Ulis, France, p. 249-263 (1999):
Vector modulational instabilities and soliton experiments.

O9 G. Millot, S. Pitois, J.-M. Dudley, and M. Haelterman,
Optical Solitons: Theoretical and Experimental Challenges, edited by K. Porsezian, Springer Verlag, vol. 613, 327-351 (2003):
Experimental study of modulational instability and vector solitons in optical fibers.

O10 G. Millot and P. Tchofo-Dinda,
Encyclopedia of Modern Optics, edited by B. Guenther, D. Steel, and L. Bayvel, Elsevier Science, vol. Optical fibre systems, systems basics, fibre amplifiers, technology of fibre optics (2005):
Basic principles of nonlinear effects in optical fibres.

O11 G. Millot and P. Tchofo-Dinda,
Encyclopedia of Modern Optics, edited by B. Guenther, D. Steel, and L. Bayvel, Elsevier Science, vol. Optical fibre systems, systems basics, fibre amplifiers, technology of fibre optics (2005):
Physical origin and properties of optical fibre solitons.

O12 P. Tchofo-Dinda and G. Millot,
Encyclopedia of Modern Optics, edited by B. Guenther, D. Steel, and L. Bayvel, Elsevier Science, vol. Optical fibre systems, systems basics, fibre amplifiers, technology of fibre optics (2005):
Scattering phenomena in optical fibres.

O13 G. Millot, J. Fatome, S. Pitois et P. Tchofo-Dinda
La physique : du laboratoire au quotidien, Editions Universitaires de Dijon (EUD) (2005):
Communications ultra-rapides à longue distance.

O14 S. Boscolo, J. Fatome, S. Turitsyn, G. Millot, C. Finot
Springer to appear in 2015, edited by S. Wabnitz and B. Eggleton:
Temporal and spectral nonlinear pulse shaping methods in optical fibers.

- ***Published Contributions to international academic conferences in the last 10 years:***

[1] Massoudre, D., Oudar, J.-L., Fatome, J., Pitois, S., Millot, G., Landreau, J. and Decobert, J. (2005): All-Optical Extinction Ratio Enhancement of a 160-GHz Pulse Train Using a Saturable Absorber Vertical Microcavity. Proceedings of the 31st European Conference on Optical Communication (ECOC) at Glasgow, Scotland, September 2005, IET Conference Publication **3**, 537-538.

[2] Fatome, J., Pitois, S., Tchofo-Dinda, P., Erasme, D. and Millot, G. (2005): Experimental comparison of classical and dense dispersion managements for 160-Gb/s transmission systems. IEEE Proceedings of the Conference on Lasers and Electro-Optics (CLEO/Europe) at Munich, Germany, June 2005, 488.

[3] Trillo, S., Millot, G. and Conti, C. (2005): Nonlinear dynamics induced by optical shocks formation. IEEE Proceedings of the European Quantum Electronics Conference (EQEC) at Munich, Germany, June 2005, 45.

[4] Valentini, S., Bellanca, G., Trillo, S. and Millot, G. (2005): Instabilities of Four-Wave Mixing. Nonlinear Guided Waves and Their Applications at Dresden, Germany, September 2005, Technical Digest (CD) (Optical Society of America, 2005), paper ThA6.

[5] Sauter, A., Pitois, S., Millot, G. and Picozzi, A. (2005): Experimental observation of incoherent modulation instability in standard optical fibers. Nonlinear Guided Waves and Their Applications at Dresden, Germany, September 2005, Technical Digest (CD) (Optical Society of America, 2005), paper WC8.

[6] Wabnitz, S., Millot, G., Pitois, S., Tonello, A. and Polyakov, E. (2005): Parametric and Raman amplification in photonic crystal fiber. Proceedings SPIE **5950**, Photonic Crystals and Fibers, 59500M.

[7] Sauter, A., Picozzi, A., Pitois, S. and Millot, G. (2006): Incoherent modulational instability. Journal de Physique IV (Proceedings) **135**, 273-275.

[8] Fatome, J., Massoubre, D., Pitois, S., Millot, G., Landreau, J., Decobert, J. and Oudar, J.-L. (2006) : Component with a saturable absorbent for the completely optical regeneration at ultra high output. Journal de Physique IV (Proceedings) **135**, 157-159.

[9] Picozzi, A., Haelterman, M., Pitois, S. and Millot, G. (2006): Incoherent solitons and condensation processes. Journal de Physique IV (Proceedings) **135**, 33-41.

[10] Finot, C. and Millot, G. (2006): Experimental comparison of characterisation techniques in intensity and phase of ultrashort optical impulsions. Journal de Physique IV (Proceedings) **135**, 131-133.

[11] Tonello, A., Pitois, S., Wabnitz, S., Millot, G., Martynkien, T., Urbanczyk, W., Wojcik, J., Locatelli, A., Conforti, M. and De Angelis, C. (2006): Observation of Frequency Tunable Cross-Phase Modulation Instabilities in Highly Birefringent Photonic Crystal Fiber. Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Conference and Photonic Applications Systems Technologies, Technical Digest (CD) (Optical Society of America, 2006), paper QTuJ1.

[12] Fatome, J., Pitois, S., Finot, C. and Millot, G. (2006): 320-GHz, 640-GHz and 1-THz Femtosecond Pulse Sources Based on Multiple Four Wave Mixing in Highly Nonlinear Optical Fibers. Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Conference and Photonic Applications Systems Technologies, Technical Digest (CD) (Optical Society of America, 2006), paper CMEE1.

[13] Wabnitz, S., Tonello, A., Pitois, S., Millot, G., Martynkien, T., Urbanczyk, W., Wojcik, J., Locatelli, A., Conforti, M. and De Angelis, C. (2007): Experiment and theory of tunable braodband parametric gain in a photonic crystal fiber. Proceedings SPIE 6612, Laser Optics 2006: Diode Lasers and Telecommunication Systems, 66120D (April 13, 2007);

[14] Fatome, J., Pitois, S., Millot, G., Massoubre, D. and Oudar, J.-L. (2007): Cascadability and efficiency of a saturable absorber device inserted into a SMF transmission line for future 160-Gbit/s all-optical reshaping applications. IEEE Proceedings of the European Conference on Lasers and Electro-Optics and the International Quantum Electronics Conference (CLEO-IQEC) at Munich, Germany, June 2007, 1.

[15] Barviau, B., Fatome, J., Finot, C. and Millot, G. (2007): Broad-spectrum frequency comb generation from two continuous waves. IEEE Proceedings of the European Conference on Lasers and Electro-Optics and the International Quantum Electronics Conference (CLEO-IQEC) at Munich, Germany, June 2007, 1.

[16] Finot, C., Fatome, J., Pitois, S. and Millot, G. (2007): All-Fibered High-Quality Low Duty-Cycle 20-GHz and 40-GHz Picosecond Pulse Sources. Nonlinear Photonics at Quebec, Canada, September 2007, OSA Technical Digest (CD) (Optical Society of America, 2007), paper NThC7.

[17] Hammani, K., Finot, C., Pitois, S., Dudley, J.M. and Millot, G. (2008): Experimental generation of extreme-value optical rogue-wave structures in fibre Raman amplifiers. 34th European Conference on Optical Communications at Brussels, Belgium, September 2008, paper Mo3.F.1.http://dx.doi.org/10.1109/ECOC.2008.4729137

[18] Ware, C., Cordette, S., Lepers, C., Fsaifes, I., Kibler, B., Finot, C. and Millot, G. (2008): Spectral slicing of a supercontinuum source for WDM/DS-OCDMA application. IEEE proceedings of the 10th Anniversary International Conference on Transparent Optical Networks (ICTON) at Athens, Greece, June 2008, **4**, 158-161.

[19] Pitois, S., Fatome, J. and Millot, G. (2008): Experimental investigation of a polarization attractor at telecommunication wavelengths. IEEE Proceedings of the 34th European Conference on Optical Communication (ECOC) at Brussels, Belgium, September 2008, 1-2.

[20] Kibler, B., Millot, G., Wojcik, J., Szpulak, M. and Urbanczyk, W. (2008): Soliton self-frequency shift in suspended core fibers. Proceedings SPIE 7138, Photonics, Devices, and Systems IV, 71381Q (November 18, 2008).

[21] Finot, C., Dudley, J.M., Richardson, D.J. and Millot, G. (2009): Generation of parabolic pulses and applications for optical telecommunications. Proceedings of the 11th International Conference on Transparent Optical Network (ICTON) at Ponta Delgada, Portugal, June 2009, paper Tu.D1.5.

[22] Hammani, K., Finot, C., Dudley, J.M. and Millot, G. (2009): Generation and detection of optical rogue-wave like fluctuations in fiber Raman amplifiers. IEEE/LEOS Winter Topical Meetings at Innsbruck, Austria, January 2009, 225-226.

[23] Hammani, K., Finot, C., Kibler, B., Dudley, J.M. and Millot, G. (2009): Extreme events in fiber based amplifiers.11th International Conference on Transparent Optical Network (ICTON) at Ponta Delgada, Portugal, June 2009, paper We.A1.4.

[24] Finot, C., Dudley, J.M., Richardson, D.J. and Millot, G. (2009): Parabolic pulse generation and applications. IEEE/LEOS Winter Topical Meetings at Innsbruck, Austria, January 2009, 110-111.

[25] Pitois, S., Fatome, J., Picozzi, A. and Millot, G. (2009): New concepts based on nonlinear polarization effects and Raman amplification in optical fibers. IEEE/LEOS Winter Topical Meetings at Innsbruck, Austria, January 2009, 223-224.

[26] Finot, C., Dudley, J. M., Richardson, D. J. and Millot, G. (2009): Parabolic Pulse Formation and Applications. Optical Fiber Communication Conference and National Fiber Optic Engineers Conference, OSA Technical Digest (CD) (Optical Society of America, 2009), paper OWN1.

[27] Kibler, B., Barviau, B., Coen, S., Kudlinski, A., Mussot, A., Millot, G. and Picozzi, A. (2009): Thermodynamic Approach of Supercontinuum Generation in Photonic Crystal Fiber. Conference on Lasers and Electro-Optics/International Quantum Electronics Conference, OSA Technical Digest (CD) (Optical Society of America, 2009), paper JWA123.

[28] Picozzi, A., Pitois, S., Barviau, B., Kibler, B. and Millot, G. (2009): Spectral incoherent solitons. IEEE Proceedings of the Lasers and Electro-Optics and the European Quantum Electronics Conference (CLEO Europe-EQEC) at Munich, Germany, June 2009, 1.

[29] Fatome, J., Pitois, S., Fortier, C., Kibler, B., Finot, C., Millot, G., Courde, C., Lintz, M. and Samain, E. (2009): On recent progress in all-fibered pulsed optical sources from 20 GHz to 2 THz based on multiple four wave mixing approach. Proceedings of the 11th International Conference on Transparent Optical Network (ICTON) at Ponta Delgada, Portugal, June 2009, 1-4.

[30] Hammani, K., Finot, C., Kibler, B. and Millot, G. (2010): Soliton Generation And Rogue-wave Like Behavior Through Fourth Order Modulation Instability. Advanced Photonics & Renewable Energy at Karlsruhe, Germany, June 2010, OSA Technical Digest (CD) (Optical Society of America, 2010), paper NMA6.

[31] Hammani, K., Finot, C., Fatome, J., Picozzi, A. and Millot, G. (2010): Extreme statistics in Raman fiber amplifiers: from experiments to analytical description. Proceedings of the 12th International Conference on Transparent Optical Networks (ICTON) at Munich, Germany, June 2010, paper We.P.13.

[32] Kibler, B., Fatome, J., Finot, C., Millot, G., Dias, F., Genty, G., Akhmediev, N. and Dudley, J.M. (2010): Observation of the optical Peregrine Soliton. EOS Annual Meeting at Paris, France, October 2010, 4017.

[33] Hammani, K., Finot, C. and Millot G. (2010): Extreme Statistics In Raman Fiber Amplifiers: Influence Of Pump Depletion And Dispersion. Proceedings of Advanced

Photonics & Renewable Energy at Karlsruhe, Germany, June 2010, OSA Technical Digest (CD) (Optical Society of America, 2010), paper NME11.

[34] Ware, C., Cordette, S., Lepers, C., Fsaifes, I., Tonello, A., Couderc, V., Douay, M., Kibler, B., Finot, C. and Millot, G. (2010): Optical CDMA enhanced by nonlinear optics. IEEE Proceedings of the 12th International Conference on Transparent Optical Network (ICTON) at Munich, Germany, June 2010, 1-4.

[35] Fatome, J., Pitois, S., Morin, P. and Millot, G. (2010): All-optical Control and Stabilization of the Polarization State of a 10-Gbit/s RZ Telecommunication Signal. European Conference and Exhibition on Optical Communication (ECOC 2010) at Turin, Italy, September 2010, Th. 9. C. 4.

[36] Kibler, B., Fatome, J., Finot, C., Millot, G., Dias, F., Genty, G., Akhmediev, N. and Dudley J.M. (2010): Supercontinuum to solitons: New nonlinear structures in fiber propagation. IEEE proceedings of the Photonics Global Conference (PGC) at Singapore
Orchard, Singapore, December 2010,1.

[37] Kibler, B., Fatome, J., Finot, C., Hammani, K., Millot, G., Dias, F., Genty, G., Erkintalo, M., Akhmediev, N., Wetzel, B. and Dudley, J.M. (2011): Rediscovered dynamics of nonlinear fiber optics: from breathers to extreme localisation. SPIE Photonics West at San Francisco, USA, January 2011, 7917-7931.

[38] Kibler, B., Hammani, K., Fatome, J., Finot, C., Millot, G., Dias, F., Genty, G., Akhmediev, N. and Dudley, J. M. (2011): Peregrine soliton in optical fiber-based systems. Proceedings of the Conference on Laser and ElectroOptic at Baltimore, USA, May 2011, paper QFF1.

[39] Hage, C.-H., Kibler, B., Andresen, E.R., Michel, S., Rigneault, H., Courjaud, A., Mottay, E., Dudley, J.M., Millot, G. and Finot, C. (2011): Optimization and characterization of a femtosecond tunable light source based on the soliton self-frequency shift in photonic crystal fiber. SPIE Conference on Nonlinear Optics and Applications V, May 2011, **8071**, I-7.

[40] Wetzel, B., Erkintalo, M., Genty, G., Dias, F., Hammani, K., Kibler, B., Fatome, J., Finot, C., Millot, G., Akhmediev, N. and Dudley, J.M. (2011): Analytical studies of modulation instability and nonlinear compression dynamics in optical fiber propagation. Proceedings SPIE 8073, Optical Sensors and Photonic Crystal Fibers V, 80732N (May 09, 2011), 60.

[41] Boucon, A., Barviau, B., Fatome, J., Finot, C., Sylvestre, T., Lee, M.W., Grelu, P. and Millot, G. (2011): High-harmonic km-long self-pulsed Raman fiber laser. IEEE Proceedings of the 12th Conference on Lasers and Electro-Optics and European Quantum Electronics Conference (CLEO Europe-EQEC) at Munich, Germany, May 2011, 1.

[42] Hammani, K., Kibler, B., Finot, C., Fatome, J., Dudley, J.M. and Millot, G. (2011): Optical Peregrine soliton generation in standard telecommunications fiber. Proceedings of the 13th International Conference on Transparent Optical Network at Stockholm, Sweden, June 2011, paper Tu.B2.2.

[43] Morin, P., Fatome, J., Finot, C., Pitois, S. and Millot, G. (2011): All-optical simultaneous polarization attraction and intensity regeneration of a 40-Gbit/s RZ signal. Proceedings of the 37th European Conference and Exposition on Optical

Communications, OSA Technical Digest (CD) (Optical Society of America, 2011), paper Th.12.LeCervin.4.

[44] Kibler, B., Michel, C., Kudlinski, A., Barviau, B., Millot, G. and Picozzi, A. (2012): Spontaneous generation of spectral incoherent solitons through supercontinuum generation. Nonlinear Photonics at Colorado Springs, USA, June 2012, OSA Technical Digest (CD) (Optical Society of America, 2007), paper NM2C. 5.

[45] Kibler, B., Fatome, J., Finot, C., Millot, G., Genty, G., Akhmediev, N., Wetzel, B., Dias, F. and Dudley, J.M. (2012): Kuznetsov-Ma Soliton Dynamics in Nonlinear Fiber Optics. Nonlinear Photonics at Colorado Springs, USA, June 2012, OSA Technical Digest (CD) (Optical Society of America, 2007), paper NW3D. 5.

[46] Morin, P., Fatome, J., Finot, C., Pitois, S. and Millot, G. (2012): All-optical nonlinear simultaneous polarization and intensity regeneration of a 40-Gb/s telecommunication signal. Nonlinear Photonics at Colorado Springs, USA, June 2012, OSA Technical Digest (CD) (Optical Society of America, 2007), paper NM3C. 3.

[47] Fatome, J., Finot, C., Millot, G., Armaroli, A. and Trillo, S. (2012): Four-wave mixing instabilities in telecom fibers. Proceedings of Integrated Photonics Research, Silicon and Nanophotonics at Colorado Springs, USA, June 2012, OSA Technical Digest (CD) (Optical Society of America, 2007), paper JM5A. 39.

[48] Wabnitz, S., Finot, C., Fatome, J. and Millot, G. (2013): Shallow water rogue waves in nonlinear optical fibers. IEEE Proceedings of the Conference on Lasers and Electro-Optics Europe and International Quantum Electronics Conference (CLEO EUROPE/IQEC) at Munich, Germany, May 2013, 1.

[49] Fatome, J. Pitois, S. Morin, P. Bony, P. Assemat, E. Sugny, D. Picozzi, A. Jauslin, H., Millot, G., Kozlov, V. Guasoni, M. and Wabnitz, S. (2013): A universal all-fiber Omnipolarizer. Proceedings of the conference Nonlinear Optics, OSA Technical Digest (online) (Optical Society of America, 2013), paper NM2B.2.

[50] Kibler, B., Frisquet, B., Morin, P., Fatome, J., Baronio, F., Conforti, M., Millot, G. and Wabnitz, S. (2014): Manakov Polarization Modulation Instability in Normal Dispersion Optical Fiber. Advanced Photonics at Barcelona, Spain, July 2014, OSA Technical Digest (online) (Optical Society of America, 2014), paper NW2A.2.

[51] Xu, G., Garnier, J., Trillo, S., Kibler, B., Millot, G., Suret, P., Randoux, S. and Picozzi, A. (2014): Temporal Dynamics of Incoherent Nonlinear Waves. Advanced Photonics at Barcelona, Spain, July 2014, OSA Technical Digest (online) (Optical Society of America, 2014), paper NW2A.1.

[52] Varlot, B., Wabnitz, S., Fatome, J., Millot, G. and Finot, C. (2014): Flaticon Pulses in Optical Fibers. Advanced Photonics at Barcelona, Spain, July 2014, OSA Technical Digest (online) (Optical Society of America, 2014), paper NTh4A.1.

[53] Kibler, B., Frisquet, B., Morin, P., Fatome, J., Baronio, F., Conforti, M., Millot, G. and Wabnitz, S. (2014): Observation of Manakov polarization modulation instability in the normal dispersion regime of randomly birefringent telecom optical fiber. IEEE Proceedings of the 2014 European Conference on Optical Communication (ECOC) at Cannes, France, September 2014, 1-3.

[54] Bony, P.Y., Guasoni, M., Pitois, S., Morin, P., Sugny, D., Picozzi, A., Jauslin, H.R., Millot, G., Wabnitz, S. and Fatome, J. (2014): A universal all-fiber Omnipolarizer.

Proceedings of the 2014 IEEE Photonics Conference (IPC) at San Diego, USA, October 2014, 483-484.

[55] Ming, Y., Pitois, S., Hovannysyan, T., Bendahmane, A., Hänsch, T.W., Picqué, N., Millot, G. (2015): Dual-Comb Spectroscopy with Frequency-Agile Lasers. Postdealine paper STh5C.6 CLEO US at San Jose, USA, 12-15 May 2015.