Jacques Albert

Complete list of publications, patents, conference presentations, and talks

**Papers in refereed scientific journals (inverse chronological order)**


http://doi.org/10.1109/JSEN.2017.2750157


137. A. Ianoul, **M. Robson, V. Pripotnev,** and J. Albert, “Polarization-selective excitation of plasmonic resonances in silver nanocube random arrays by optical fiber cladding mode evanescent fields,” RCS Adv. 4, 19725-197230 (April 2014)


56. A. L. Tchébotareva, J. L. Brebner, S. Roorda, J. Albert


54. M. Essid, J. Albert, and J. L. Brebner

53. J. Albert


51. M. Essid, J. L. Brebner, J. Albert, and K. Awazu


49. M. Essid, J. L. Brebner, J. Albert, and K. Awazu
“Ion implantation induced photosensitivity in Ge-doped silica: Effect of induced defects on refractive index changes”

"Photoinduced optical absorption and 400-nm luminescence in low-germanium content optical fiber preforms irradiated with ArF and KrF excimer-laser light"

47. S. Thériault, K. O. Hill, F. Bilodeau, D. C. Johnson, J. Albert, G. Drouin, and A. Béliveau
“High-g accelerometer based on an In-fiber Bragg grating sensor”

“Moire phase masks for the automatic pure apodisation of fibre Bragg gratings”

"Minimization of phase errors in long fiber Bragg grating phase masks made using electron beam lithography"

"External cavity laser composed of laser diode and UV written grating integrated on Si"

43. M. Verhaegen, J. L. Brebner, L. B. Allard, J. Albert
“Ion implantation-induced strong photosensitivity in high-purity fused silica: correlation of index changes with VUV centers”

42. A. P. Knights, P. J. Simpson, L. B. Allard, J. L. Brebner, and J. Albert
"Si ion implantation induced damage in fused silica probed by variable-energy positrons"

"Wavelength Division Multiplexer with photoinduced Bragg gratings fabricated in Planar-Lightwave-Circuit-type asymmetric Mach-Zehnder interferometer on Si"

"Fabrication of a variable diffraction efficiency phase mask by multiple dose ion implantation"

"Photorefractive waveguides produced by ion implantation of fused silica"

"Comparison of one-photon and two-photon effects in the photosensitivity of
germanium-doped silica optical fibers exposed to intense ArF excimer laser pulses"

"Enhanced photosensitivity in lightly doped standard telecommunication fibre exposed
to high fluence ArF excimer laser light"

"Variable spectral response optical waveguide Bragg grating filters for optical signal
processing"

35. J. Albert, J. Huttunen and J. Saarinen
"Planar Fresnel lens photoimprinted in a germanium-doped silica optical waveguide"

"Apodized in-fibre Bragg grating reflectors photoimprinted using a phase mask"

Erickson
"Apodization of the spectral response of fibre Bragg gratings using a phase mask with
variable diffraction efficiency"

"An all-fiber dense-wavelength-division multiplexer/demultiplexer using photoimprinted
Bragg gratings"

K. Takiguchi, T. Katakao, and K. Hagimoto
"Chirped in-fibre Bragg grating dispersion compensators: Linearisation of dispersion
compensation in 100 km, 10 Gbit/s optical fibre link"
"Single-frequency Er$^{3+}$-doped silica-based planar waveguide laser with integrated photo-imprinted Bragg reflectors"

"Chirped in-fiber Bragg gratings for optical fiber dispersion compensation"

"Photosensitivity in phosphorus doped silica glass and optical waveguides"

"Effective index drift from molecular hydrogen diffusion in hydrogen-loaded optical fibres and its effect on Bragg grating fabrication"

"Photosensitivity in Germanium-doped silica optical waveguides and fibers using 193 nm light from an ArF excimer laser"

"High-return-loss narrowband all-fiber bandpass Bragg transmission filter"

"Maskless writing of submicron gratings in fused silica by focused ion beam implantation and differential wet etching"

"Point-by-point fabrication of micro-Bragg gratings in photosensitive fibre using single excimer pulse refractive index modification techniques"

"Single excimer pulse writing of fibre gratings using a phase mask: grating spectral response and visualisation of index perturbations"

"Bragg gratings fabricated in monomode photosensitive optical fiber by UV exposure through a phase mask"  

"Photosensitization of optical fiber and silica-on-silicon/silica waveguides"  

"Dichroism in Absorption Spectrum of Photobleached Ion Implanted Silica"  

"Refractive index changes in fused silica produced by heavy ion implantation followed by photobleaching"  

"Elimination of photo-induced absorption in Ge-doped silica fibers by annealing of ultraviolet colour centres"  

"Third harmonic generation measurements on thin films of novel substituted polythiophenes"  

15. P. C. Noutsios, G. L. Yip, and J. Albert  
"Novel vertical directional coupler made by field-assisted ion exchanged slab waveguides in glass"  

"Formation and bleaching of strong ultraviolet absorption bands in germanium implanted synthetic fused silica"  

"Determination of third-order nonlinear optical susceptibilities of polysilane thin films"  
"Ion-exchanged Mach-Zehnder interferometers in glass"

"Planar 1/8 splitter in glass by photoresist masked silver film ion exchange"

"Potassium and silver ion-exchanged dual-core glass waveguides with gratings"

"Ultraviolet light photosensitivity in Ge-doped silica fibres: Wavelength dependence of
the light-induced index change"

8. J. Albert, and J. W. Y. Lit
"Full modelling of field-assisted ion-exchange for graded-index, buried channel optical
waveguides"

"Unbalanced dissimilar-fiber Mach-Zehnder interferometer: Application as filter"

6. J. Albert and G. L. Yip
"Insertion loss reduction between single-mode fibers and diffused channel waveguides"

5. J. Albert and G. L. Yip
"Wide single-mode channels and directional coupler by two-step ion-exchange in glass"

4. J. Albert and G. L. Yip
"Stress-induced index change for K+-Na+ ion-exchange in glass"

3. J. Albert and G. L. Yip
"Refractive-index profiles of planar waveguides made by ion-exchange in glass"

2. G. L. Yip and J. Albert
"Characterization of planar optical waveguides by K+-ion exchange in glass"
1. J. Albert, D. Vincent, and R. Tremblay
"Hybrid bistable optical device using an acoustooptic waveguide modulator"

**Patents**


5. A. Schulzgen, J. Albert, N. Peyghambarian, S. Honkanen, and L. Li

4. V. Girardon, C. Tessier-Lescourret, S. André, J. Albert, and J. Fersht,

3. J. Albert
“Adjustable temperature compensating package for optical fiber devices”

“Polarization insensitive grating in a planar channel optical waveguide and method to achieve the same”

“Photosensitization of optical fibers and silica waveguides”

**Patent applications**


2. J. Albert
“Passive temperature compensating fixture for optical grating devices”

1. J. Albert, T. Hilt, A. Fernie, and J. Dessureault,

Presentations at refereed conferences


182. V. Marquez-Cruz and J. Albert, “Analysis of time-controlled electroless deposited gold films on TFBGs,” Photonics North, Quebec City, May 24th -26th 2016


179. J. Albert “Lab-on-fiber Devices,” Invited talk, Optical Society of America 4th Workshop on Specialty Optical fibers (WSOF’2015), paper WF4A.1, Hong Kong, (November 2015)


173. V. Marquez-Cruz and J. Albert, “Analysis of the variables involved in near infrared TFBG-assisted SPR biochemical sensors,” IC-Impacts Summer Institute: Optical Sensing Technologies”, University of Toronto, Toronto (June 14-19, 2015)


152. A. Bialiayeu, W. Zhou, and J. Albert, “Polarization controlled scattering from gold nanoparticle coatings on optical fibers,” 6th International Conference on Surface Plasmon Photonics (SPP6) (Ottawa, 26-31 May 2013)


125. Li-Yang Shao, Jason Coyle, Sean Barry, and Jacques Albert, “Plasmonic Properties of Copper Nanoparticles Deposited on Tilted Fiber Bragg Gratings,” paper CH2.3, CLEO-Europe (Munich, May 2011)


7753-143, International Conference on Optical Fiber Sensors (OFS-21), (Ottawa, May 2011)


115. Yanina Shevchenko, Tariq Francis, Maria C. DeRosa, and Jacques Albert, “Surface Plasmon Resonance optical fiber biosensor for label-free characterization of biomolecular interactions,” Paper BMC2, OSA Topical meeting on Bio-Optics: Design and Application (BODA) (Monterey CA, April 2011)


107. L. Shao and J. Albert, “Novel fiber optical inclinometer based on a concatenated fused taper and tilted fiber Bragg grating,” CLEO/QELS, May 16-21 2010 (San Jose, CA), paper CFH3


2009), paper FWT1.


64. **D. Celo**, D. J. Walkey, T. J. Smy, and J. Albert, “First order optimization technique for interferometric optical waveguide sensors,” Photonics North, Ottawa (June 2007)


48. J. Albert, M. Fokine, and W. Margulis
“Grating formation in pure silica fibers”

“Temperature-insensitive UV-induced Bragg gratings in silica-based PLCs on Si”

“Influence of fringeless UV post-exposure on index modulation amplitude in fiber Bragg gratings”

“Birefringence control for ultraviolet-induced index change in Planar Lightwave Circuits”

44. S. Thériault, K. O. Hill, D. C. Johnson, J. Albert, F. Bilodeau, G. Drouin, and A. Béliveau
“High-g accelerometer based on in-fiber Bragg grating: a novel detection scheme”

43. A. Tchebotareva, J. L. Brebner, S. Roorda, and J. Albert
“Proton implantation in the core of standard single-mode optical fiber: effect on the photosensitivity to ultraviolet light”
11th International Conference on Ion Beam modification of materials, August 31 to September 4 1998, Amsterdam NL, Poster session 3.2 (1998)
“Comparison of fibre Bragg grating dispersion-compensators made with holographic and E-beam written phase masks”
European Conference on Optical Communications (ECOC’98), September 20-24, Madrid, Spain (1998)

41. M. Verhaegen, J. L. Brebner, and J. Albert
“UV-light bleaching and thermal annealing of ion implanted silica. Changes in color center populations and displacement of the optical absorption edge”
Materials Research Society Fall meeting, Boston, Dec. 1-5 (1997)

40. M. Verhaegen, J. L. Brebner, and J. Albert
“Large refractive index changes observed in silicon implanted silica exposed to high cumulative doses of ArF light”

“Polarization-independent strong Bragg gratings in Planar Lightwave Circuits from ArF laser irradiation”

38. M. Essid, J. L. Brebner, K. Awazu, and J. Albert
“Ion implantation induced photosensitivity in Ge-doped silica: Effects of induced defects on refractive index changes”

37. Mourad Essid, John L.Brebner and Jacques Albert
“Refractive index change in Ge-doped silica waveguide after high energy ion implantation and UV irradiation”
APS 1997 March Meeting, Kansas City MO March 17-21 (1997)

36. Sjoerd Roorda, Anna Tchebotareva, Jacques Albert, and John Brebner
“Modification of the core of Ge doped optical fibres by proton ion implantation”
APS 1997 March Meeting, Kansas City MO March 17-21 (1997)

“Modification of the properties of silica glasses by ion implantation”
Photonics West ‘97, SPIE Conference on Integrated Optoelectronics, San Jose (1997)
“An integrated external cavity laser composed of a UV written grating in a silica waveguide and a spot-size converted laser diode on Si”

33. L. B. Allard, S. Roorda, A. Ait-Ouali, J. L. Brebner, and J. Albert
“Optical properties of proton implanted Ge-doped optical fibres”
Ion Beam Modification of Materials (IBMM’96), Albuquerque NM (1996)

“High-g accelerometer based on an in-fiber Bragg grating sensor”

“A broadband wavelength-selective tap using an all-fiber Mach-Zehnder interferometer and chirped photoinduced Bragg gratings”
Technical Digest, Optical Fiber Communications ‘96, paper WF5, pp.119-120, San Jose (1996)

“Effect of phase mask stitching errors on the spectral response of uniform and apodized fiber Bragg grating”

29. J. Albert
“Photosensitive processes in silica glass using 193 nm light”
Invited paper

“Photosensitivity and its applications”
Proceedings of the 10th International Conference on Optics and Optical Fiber Communications (IOOC’95), Hong-Kong, June 1995

27. M. Essid, M. Verhaegen, L. B. Allard, J. L. Brebner, and J. Albert
“Ion implantation induced photosensitivity in silica and Ge-doped silica”
“Photorefractive waveguides produced by ion implantation of fused silica”
9th International Conference on Ion Beam Modification of Materials, Canberra (Australia)
(1995)

Bilodeau, and D. C. Johnson
“Fabrication of a variable diffraction efficiency phase mask by multiple dose ion
implantation”
39th International Conference of Electron, Ion, and Photon Beam Technology and

“High performance wavelength division multiplexing/demultiplexing device using an all-
fiber Mach-Zehnder interferometer and photoinduced Bragg gratings”
Proceedings of the 1995 Optical Fiber Communications conference (OFC’95), San Jose
(California) (1995)

K. Takiguchi, T. Kataoka, and K. Hagimoto
“Dispersion compensation of a 100 km, 10 Gb/s optical fiber link using a chirped in-fiber
Bragg grating compensator with a linear dispersion characteristic”
Proceedings of the 1994 European Conference on Optical Communications (ECOC’94),
Firenze (Italy), Vol. 4 Post-deadline papers, pp.23-26 (1994)

Albert
“Novel applications of photosensitivity in Ge-doped silica: Bragg grating matched
filtering for optical fiber dispersion compensation and multilayer optical storage
medium”

Kitagawa
“Characterization of In-fiber Bragg Gratings”
Technical Digest of the 1994 Symposium on Optical Fiber measurements, Boulder,
September (1994)

20. M. Verhaegen, J. L. Brebner, and J. Albert
“Potential applications of implanted fused silica as a photosensitive material for planar
lightwave circuits”
International conference on applications of photonic technology (ICAPT’94), Toronto,
June 1994
“Fabrication and characterization of submicron gratings written in planar silica glass with
a Focused ion beam”
Invited paper, International Symposium on Integrated optics, Lindau (Germany), SPIE

K. Hattori, and Y. Hibino
“Photosensitivity in $P_2O_5$-$SiO_2$ waveguides and its application to Bragg reflectors in
single-frequency $Er^{3+}$-doped planar waveguide laser”
Post-deadline paper PD-17, Proceedings of the 1994 Optical Fiber Communication
Conference, p.79 (1994)

and K. Takiguchi
“Aperiodic in-fiber Bragg grating for optical fiber dispersion compensation”
Post-deadline paper PD-2, Proceedings of the 1994 Optical Fiber Communication
Conference, p.17 (1994)

16. P. Noutsios, G. L. Yip, and J. Albert
“A new vertical directional coupler for optimum edge-coupling to an embedded
photodetector”
IEEE/OSA Topical Meeting on Integrated Photonics Research ’94, San Francisco, paper
ThF18 (1994)

15. F. Bilodeau, K. O. Hill, B. Malo, D. C. Johnson, and J. Albert
“High-return-loss narrowband all-fiber bandpass Bragg transmission filter”
post-deadline paper ThC 12.8, Proc. of the European Conference on Optical

“Optical waveguide photosensitivity”
Invited talk, LEOS’93, San Jose CA (1993)

“Photosensitivity in optical fiber and silica-on-substrate waveguides”
Invited Talk, 1993 SPIE Conference on Photosensitivity and self-organization in optical
fibers and waveguides, Quebec, (1993)

Kawachi
“Application of phase masks to the photolithographic fabrication of Bragg gratings in
conventional fiber/planar waveguides with enhanced photosensitivity”
Conference on Optical Fiber Communications 1993, post-deadline paper PD15, San Jose
CA (1993)
“Direct writing of volume and surface gratings with sub-micron periods in fused silica”
in Integrated Photonics Research, Vol. 11, OSA Technical Digest Series, (Optical Society

“Characteristics of dielectric-clad directional couplers for improved edge coupling to
hybrid detectors”
in Integrated Photonics Research, Vol. 11, OSA Technical Digest Series, (Optical Society
of America, Washington, DC), pp. 60-63 (1993)

Kajrys
“Some optical properties of waveguides made by high energy ion implantation in fused
silica”
in Integrated Photonics Research, Vol. 10, OSA Technical Digest Series, (Optical Society
of America, Washington, DC), pp. 4-5 (1992)

8. P. Noutsios, G. L. Yip, and and J. Albert
“A novel vertical directional coupler made by graded-index ion-exchanged slab
waveguides”
in Integrated Photonics Research, Vol. 10, OSA Technical Digest Series, (Optical Society

7. J. Albert, W. J. Wang, and S. I. Najafi
“Optical damage threshold of ion-exchanged glass waveguides at 1.06 µm”

“Nd and Er doped glass integrated optical amplifiers and lasers”

5. P. Lefebvre, V. Shahidi, J. Albert, and S. I. Najafi
“Potassium ion-exchanged Mach-Zehnder interferometers in glass”

“Fabrication and characterization of ion-exchanged glass channel waveguides with
etched and diffused grating taps”
Diego, July (1990)

3. J. Albert and J. W. Y. Lit
“Numerical modelling of 2-D field assisted ion-exchange in glass”
SPIE Symposium on Optoelectronic and Fiber Optic Devices and Applications, Boston,
September 1989;

2. J. Albert and G. L. Yip
“Insertion loss between single-mode fibers and diffused channel waveguides”

1. J. Albert and G. L. Yip
“Wide-channel passive single-mode directional couplers in glass with adjustable power transfer”
Technical Digest of the 12th European Conference on Optical Communication, Barcelona (Spain) pp.373-376 (1986)

Presentations at other scientific conferences and meetings

43. J. Albert, “Random nanoplasmonics: the key for low cost, high resolution biochemical sensing?”, Invited talk, IEEE Photonics Society Ottawa Symposium on Recent advances in Photonics, NRC (Ottawa) Feb. 7th 2014

42. J. Albert, « Sensing with Plasmons on Optical fibers, » Invited talk, Nano Photonics Summer School, University of Ottawa, May 2nd, 2012

41. J. Albert, « Dispositifs optiques linéaires et nonlinéaires à base de fibres optiques, » Invited talk, Annual meeting of the Centre Optique, Photonique et Laser du Québec, Université Laval, April 30th, 2012

40. J. Albert, “Fiber gratings from a different angle,” Invited talk, Workshop on Next-Generation Optical Fiber Technology, Townes Laser Institute, Cocoa Beach FL, October 2010)


38. J. Albert, “Novel photosensitive phenomena in phosphate glass waveguides and fibers,” Invited talk, Annual meeting of the Canadian Association of Physicists, Quebec (11 June 2008)


35. D. Celo, D. J. Walkey, T. Smy, A. Froimovitch, and J. Albert
“GLAD film applications for interferometric optical waveguide sensors”
NATO Advanced Study Institute on Optical waveguide sensing and imaging, Gatineau (Canada), Oct. 16th 2006.


32. M. Essid, J. L. Brebner, and J. Albert
“Différence dans le comportement des défauts à déficience en oxygène dans la silice dopée au germanium sous l’irradiation aux lasers excimères ArF et KrF”
66ème Congrès de l’ACFAS, Québec, 11-15 mai (1998)

31. A. L. Tchebotareva, J. L. Brebner, S. Roorda, and J. Albert
“Implantation des protons dans le coeur d’une fibre standard monomode: Effet sur la photosensibilité à la lumière UV”
66ème Congrès de l’ACFAS, Québec, 11-15 mai (1998)

“Photosensibilité et réseaux de Bragg dans les circuits optiques planaires”
Conférencier invité, 66ème Congrès de l’ACFAS, Québec, 11-15 mai (1998)

29. M. Verhaegen, J. L. Brebner, and J. Albert
“Photosensibilité induite par implantation ionique dans la silice pure: Effets de la dose implantée et du type de dommage produit par le bombardement de silicium”
65ème Congrès de l’ACFAS, Trois-Rivières, 12-16 mai (1997)

28. A. Tchebotareva, J. Albert, S. Roorda, and J. L. Brebner
“Les effets de l’implantation des protons dans les systemes des verres de SiO₂ et SiO₂:GeO₂”
65ème Congres de l’ACFAS, Trois-Rivières , 12-16 mai (1997)

27. M. Essid, J. L. Brebner, and J. Albert
“Changements de l’indice de refraction de la silice dopée au germanium suite à l’implantation ionique à haute énergie et à l’illumination UV”
65ème Congres de l’ACFAS, Trois-Rivières, 12-16 mai (1997)

26. J. Albert
“Photosensitivity of doped and heavy ion implanted silica glasses under excimer laser irradiation”

25. A. Ait-Ouali, L. B. Allard, M. Essid, J. L. Brebner, and J. Albert
“Raman study of implantation effects on structural properties of silica”
Canadian Association of Physicists Annual Meeting, Ottawa, June 16-21 (1996)

24. M. Essid, J. L. Brebner, and J. Albert
“High energy ion implantation induced photosensitivity in Ge-doped silica”
Canadian Association of Physicists Annual Meeting, Ottawa, June 16-21 (1996)

23. L. B. Allard, J. Albert, and J. L. Brebner
“Luminescence and absorption studies of germanosilicate fibre preforms”
Canadian Association of Physicists Annual Meeting, Ottawa, June 16-21 (1996)

22. M. Essid, J. L. Brebner, and J. Albert
“Photosensibilité de Ge:SiO$_2$ implanté à haute énergie”
64$^{ème}$ Congrès de l'ACFAS, Montréal, 13-17 Mai (1996)

“Etude par spectroscopie d'annihilation de positrons du dommage créé par implantation ionique dans du SiO$_2$”
64$^{ème}$ Congrès de l'ACFAS, Montréal, 13-17 Mai (1996)

20. M. Verhaegen, J. L. Brebner, and J. Albert
“Corrélation entre les variations d'indice de réfraction photoinduits et le blanchissage des bandes d'absorption dans l'ultra-violet du vide dans la silice implantée par des ions énergétiques”
64$^{ème}$ Congrès de l'ACFAS, Montréal, 13-17 Mai (1996)

19. J. Albert
“Photosensitivity in silica glasses due to ion implantation”
Invited talk, Annual meeting of the Canadian Association of Physicists, Ottawa (1996)

18. M. Verhaegen, J. L. Brebner, and J. Albert
“Correlation between large photoinduced refractive index changes and bleaching of VUV absorption bands in ion-irradiated fused silica”
Spring Meeting of the Materials Research Society, San Francisco, 8-12 April (1996)

17. M. Essid, M. Verhaegen, L. B. Allard, J. L. Brebner, and J. Albert
“Photosensitivity induced in Ge-doped silica by high energy ion implantation”
Annual meeting of the Can. Assoc. of Physicists, Quebec, June (1995)

“Photosensitivity of ion-implanted silica”
Annual meeting of the Can. Assoc. of Physicists, Quebec, June (1995)

15. **L. B. Allard, M. Verhaegen, J. L. Brebner, and J. Albert**
“Photoluminescence of ion-implanted silica using ArF and KrF excimer laser excitation”

14. J. Albert
“Photosensitive planar waveguides”
Invited Paper, RANK Prize Fund Symposium on Novel Optical Effects in Glasses”,
Grasmere UK, 6-9 March (1995)

13. **L. B. Allard, M. Verhaegen, M. Essid, J. L. Brebner, and J. Albert**
“Optical properties of ion implanted silica irradiated with 193 nm ArF excimer laser light”
Fall Meeting of the Materials Research Society, Symposium on Optical waveguide materials, Boston, November (1994)

12. **M. Verhaegen, J. L. Brebner, and J. Albert**
“Guides d'ondes optiques par implantation d'ions lourds dans la silice”, 62ème Congrès de l'ACFAS, Université du Québec à Montréal, Montréal, Mai (1994)

“Photoinduced gratings in optical waveguides”
Invited presentation ThEEE2, 9th Interdisciplinary Laser Science Conference, Toronto, October (1993)

“Polythiophene as a nonlinear optical material for all-optical waveguide switches”

“Kramers-Kronig analysis of photosensitivity in ion implanted optical waveguides”
Annual Meeting of the Canadian Association of Physics, Windsor (1992)

“Third harmonic generation measurements on thin films of novel polythiophenes”
Annual Meeting of the Optical Society of America, San Jose CA (1991)

7. J. Albert
“Glass waveguide fabrication technology: A review”
Invited Talk, Annual Meeting of the Optical Society of America, Boston, November (1990)
6. J. Albert
“Effect of CO$_2$ laser radiation on ion-exchanged glass waveguides”
Annual Meeting of the Optical Society of America, Boston, November (1990)

“Ion-exchanged glass waveguides with etched gratings”
Annual Meeting of the Optical Society of America, Boston, November (1990)

“Glass waveguides with gratings”
First IEEE Int. Workshop on photonic networks, components, and applications, Montebello (1990)

3. J. Albert and G. L. Yip
“Theoretical analysis of single-mode channel optical waveguides made by two-step ion exchange in glass”

2. G. L. Yip and J. Albert
“Optical waveguides by K$^+$-ion exchange in glass”
Sino-British joint meeting on Optical Fiber Communication, Beijing (1986)

1. J. Albert, D. Vincent, and R. Tremblay
“Hybrid bistable optical device using an acousto-optics waveguide modulator”

**Book chapters**

J. Albert
“Ion exchange from salt melts”

**Other publications**


6. J. Albert
“Photosensitivity in doped silica optical fibres and waveguides using ArF excimer laser light”
5. J. Albert and D. C. Johnson
“Pre-feasibility study report on optical switching in the post-2000 tactical environment”
A report from the Optical Communications and Electrophotonic Technologies Directorate, COMMUNICATIONS RESEARCH CENTRE, Ottawa, July (1991)

4. J. Albert
“Optical waveguide fabrication in glass: an overview”
Optical Communications and Electrophotonic Technologies Directorate, COMMUNICATIONS RESEARCH CENTRE, Ottawa, December (1990)

3. J. Albert
“Solar illumination normalization for visual satellite pictures”

2. J. Albert
“Channeled winds in Juan de Fuca Strait. An empirical verification”

1. J. Albert
“Record rainfall at and near Vancouver?”

Invited Seminars and Workshops

18. J. Albert, “Photonic activities at the CLLIPS laboratory,” Invited seminar, Faculté Polytechnique de Mons (Mons, Belgium, April 23rd, 2008)

17. J. Albert, “Photonic activities at the CLLIPS laboratory,” Invited seminar, Draka Comtech, (Marcoussis, France, April 18th, 2008)

16. J. Albert, “Photonic activities at the CLLIPS laboratory”, Weekly seminar series, Physics Department of the University of Ottawa, March 13th 2008


14. J. Albert
“Novel optical fiber multi-parameter sensors and UV-written cavity mirrors for phosphate glass fiber and waveguide lasers,”
Invited Talk, McMaster University (April 20th, 2006)
13. J. Albert
“Capteurs multiparamètres et cavités lasers sur guides : Nouveaux dispositifs et nouveaux matériaux photosensibles,”
Invited talk, Université Laval (January 26th, 2006)

12. J. Albert
“Bragg gratings in Planar lightwave circuits”
Invited talk, Alcatel SEL, Stuttgart, Germany (July 9th, 2001)

11. J. Albert
“Bragg gratings in Planar Lightwave circuits”

10. J. Albert
“Photosensitivity in silica glass: structure studies through ion implantation”
Invited talk at the inauguration of the new Ion implantation facility, Université de Montréal (April 17, 1997)

9. J. Albert
“Current trends at CRC”
Workshop on Photosensitivity in fibers and waveguides, Université de Montréal (March 15, 1996)

8. J. Albert
“Photosensitivity by ion implantation in silica”
Invited presentation for a Visiting Examining Committee of NSERC at the University of Montréal (Jan. 1995)

7. J. Albert
“Photoécriture dans la silice: Physique et technologie”
Invited Colloquium, Département de Physique, Université de Montréal (Dec. 3, 1993)

6. J. Albert
“Ion induced compaction of SiO₂”
Focussed Ion Beam users workshop, National Research Council of Canada (May 7, 1993)

5. J. Albert
“Ion implantation in glasses”
Seminar at the Nuclear Physics Laboratory, Université de Montréal (Jan. 21, 1992)

4. J. Albert
“Integrated optics in glass and applications”
Invited Lecture given for a graduate course on Lasers and Photonics in the Department of Physics, University of Toronto (March 30, 1992)
3. J. Albert
“Glass waveguide fabrication”
Workshop on Glass integrated optics, Ecole Polytechnique (Nov. 30, 1990)

2. J. Albert
“An overview of glass waveguide fabrication technologies”
Seminar at McGill University (Dec. 4, 1990)

1. J. Albert
“Guides optiques par échange d'ions dans le verre”
Seminaire invité à l’Université de Montréal (Feb. 1989)