

LIST OF PUBLICATIONS – Année 2008

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| <p>S.B. Constant, Y. Le Guennec, G. Maury, N. Corrao, B. Cabon
 <i>Low-cost all-optical up-conversion of digital radio signals using a directly modulated 1550 nm emitting VCSEL</i>
 IEEE Photonics Technology Letters, PTL, Vol. 20, No. 2, p. 120 - 122, 15 janvier 2008</p> |
| <p>S.B. Constant, Y. Le Guennec, G. Maury, M. Lourdiane, B. Cabon
 <i>Directly modulated laser diode in the non linear regime for low-cost digital frequency up-conversion</i>
 Microwave and Optical Technology Letters, Vol. 50, No. 5, p.1214 - 1219, Mai 2008</p> |
| <p>P. Lombard, Y. Le Guennec, G. Maury, E. Novakov, B. Cabon
 <i>Optical Distribution and Up-Conversion of MB-OFDM in Ultra Wide Band over Fiber</i>
 IEEE/OSA Journal of Lightwave Technology, Juin 2008</p> |
| <p>B. Cabon, G. N'Guyen
 <i>Ultra-Wide Band over fibre in Millimetre Waves using up-conversion technique</i>
 Journal of the European Microwave Association, Special Issue on Microwave Photonics, Proceedings, Vol. 4, p. 206 - 211, Juin 2008</p> |
| <p>M. Jazayerifar, B. Cabon, J.A. Salehi
 <i>Transmission of MB-OFDM and Impulse Radio Ultra Wide Band Signals Over Single Mode Fiber</i>
 Joint Special Issue on Microwave Photonics 2008 of the IEEE/OSA Journal of Lightwave Technology & the IEEE Transactions on Microwave Theory and Techniques, Vol. 26, No 14, Juillet 2008</p> |
| <p>R. Gary, B. Cabon, Y. Le Guennec
 <i>60 GHz UWB over fiber system using photodiode based frequency up-conversion</i>
 Microwave and Optical Technology Letters, Vol. 4, p. 302 - 305, Déc. 2008</p> |
| <p>M. Jazayerifar, J.A. Salehi, B. Cabon
 <i>Analytical Study of Binary Differential IR-UWB Over Single Mode Fiber Systems Using Two Receiver Structures</i>
 The Institution of Engineering and Technology , IET Communications</p> |
| <p>A. Schimpf, D. Bucci, B. Cabon
 <i>Optimum Biasing of VCSEL Diodes for All-Optical Up-Conversion of OFDM Signals</i>
 IEEE/OSA Journal of Lightwave Technology</p> |
| <p>B. Ivira, P. Benech, P. Ferrari
 <i>Full Modelling and Simulation of FBAR Filters in the GHz Range for temperature ageing prediction,</i>
 Proceedings of the EuMA, Vol. 4, No. 4, pp. 283-288, Dec. 2008.</p> |
| <p>E. Pistono, J.-M. Fournier, L. Duvillaret, J.-M. Duchamp, A. Vilcot, P. Ferrari
 <i>A MMIC 4.3-GHz-tunable low-pass filter,</i>
 Microwave and Optical Technology Letters, Vol. 50, No. 10, p. 2566 - 2568, Oct. 2008.</p> |
| <p>C. Hoarau, N. Corrao, J.-D. Arnould, P. Ferrari, P. Xavier
 <i>Complete Design and Measurement Methodology for a RF Tunable Impedance Matching Network,</i>
 IEEE Trans. on Microwave Theory Tech., Vol. 56, No. 11, Part 2, p. 2620 - 2627, Nov. 2008.</p> |
| <p>S. Capraro, C. Bermond, T.T. Vo, A. Farcy, J. Piquet, M. Thomas, S. Cremer, B. Fléchet, J. Torres,
 <i>Variation of MIM damascene capacitors HF performance as they evolve from 2D to 3D architectures,</i>
 IEE Electronics Letters, Volume 44, No 6, p. 411 - 412, mars 2008</p> |
| <p>B. Ivira, R. Y. Fillit, F. Ndagijimana, Ph. Benech, G. Parat, P. Ancey
 <i>Self-Heating Study of Bulk Acoustic Wave Resonators Under High RF Power</i>
 IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency control, Vol. 55, No 1, p. 139 - 147, janvier 2008.</p> |

<p>B. Ivira, Ph. Benech, R. Fillit, F. Ndagijimana, P. Ancey, G. Parat <i>Modeling for Temperature Compensation and Temperature Characterizations of BAW Resonators at GHz Frequencies</i> IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency control, Vol. 55, No 2, p. 421 - 430, 2008</p>
<p>M. Gallitre, B. Blampey, B. Fléchet, A. Farcy, V. Arnal, C. Bermond, T. Lacrevez, J. Torres <i>Characterization of porous ULK SiOCH and impact on signal propagation for on-chip interconnects of the 45 nm node</i> Proc. of the European Microwave Association, Vol. 4, p. 131-138, juin 2008</p>
<p>C. Pastore, F. Giancesello, D. Gloria, E. Serret, Ph. Benech <i>Impact Of Dummy Metal Filling Strategy Dedicated To Inductors Integrated In Advanced Thick Copper RF Beol</i> Microelectronics Engineering, Vol. 85, No 10, p. 1962 – 1966, Octobre 2008.</p>
<p>J. Piquet, C. Bermond, M. Thomas, A. Farcy, T. Lacrevez, B. Blampey, J. Torres, G. Angénieux, B. Fléchet, <i>High Frequency Characterization of Advanced MIM Capacitors Using SiN Dielectric Layers,</i> IEEE Trans. on Components and Packaging Technologies, Vol. 31, No 3, p. 546 - 551, Sept. 2008</p>
<p>T.T. Vo, T. Lacrevez, C. Bermond, T. Bertaud, B. Fléchet, A.Farcy, Y. Morand, S. Blonkowski, J.Torres, B. Guiges, E. Defaÿ, <i>In-situ Microwave Characterization of Medium-k HfO₂ and High-k STO Dielectrics for MIM Capacitors Integrated in Back-End of Line of IC</i> IET Microwave, Antennas & Propagation, Vol. 2, No 8, p. 781 - 788, Décembre 2008</p>
<p>D. Kaddour, H. Issa, M. Abdelaziz, F. Podevin, E. Pistono, J.-M. Duchamp, P. Ferrari, <i>Design Guidelines for Low-Loss Slow-Wave Coplanar Transmission Lines In RF-CMOS Technology,</i> Microwave and Optical Technology Letters, Vol. 50, No. 12, p. 3029 3036, Déc. 2008.</p>
<p>M. Kadi, F. Ndagijimana, J. Dansou-Eloy, <i>Printed Dipoles Antennas for MCM-L Wireless RF Interconnects</i> IEEE Trans. On Antennas and Propagation, Vol. 56, No. 1, p. 223 – 230, Jan. 2008</p>
<p>B. Cabon, M. Jazayerifar, G. N’Guyen RoF techniques for broadband access IEEE Radio and Wireless Symposium RWS2008 Workshop WM2: Radio over Fiber Technologies, Orlando, USA, 21-24 Janvier 2008</p>
<p>G. N’Guyen, B. Cabon, B.Z.Yu, P.Y. Fonjallaz Simultaneous Up-Conversion to 60 GHz and Side-Band Suppression Using a Fibre Bragg Grating 6th ISIS Workshop: FTTH, Wireless Communications, and their interaction, Stockholm, Suède, 2-3 Juin 2008</p>
<p>A. Pizzinat, I. Louriki, B. Charbonnier, S. Meyer, C. Sillans, H. Jaquinot, S. Bories, M. Terré, C. Algani , A.-L. Billabert , Y. Le Guennec, P. Lombard, G. Froc Ultra Wide Band Home Networks by Means of a Low Cost Radio-over-MultiMode-Fibre Transparent System Network and Optical Communications 2008, Krems, Australie, 1-3 Juillet 2008</p>
<p>A. Schimpf, D. Bucci, B. Cabon, Low cost optical up-conversion of IR-UWB signals beyond the relaxation frequency of a vertical cavity surface emitting laser IEEE 2008 International Conference on Ultra-Wideband, IEEE ICUWB’2008, Hannover, Allemagne, 10-12 Sept. 2008</p>
<p>A. Pizzinat, I. Louriki, B. Charbonnier, S. Meyer, C. Sillans, H. Jaquinot, S. Bories, M. Terré, C. Algani , A.-L. Billabert , Y. Le Guennec, P. Lombard, G. Froc Low Cost Transparent Radio-over-Fibre System for UWB Based Home Network European Conference on Optical Communications 2008 , Bruxelles, Belgique, 21-25 Sept. 2008.</p>

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<p>C. Pastore, F. Giancesello, D. Gloria, E. Serret, B. Rauber, Ph. Benech High-Performance Thick Copper Inductors Integrated in Advanced High Resistivity SOI RF CMOS technology EuroSOI workshop, Cork, 23–25 Janvier 2008</p>
<p>C. Pastore, F. Giancesello, D. Gloria, E. Serret, Ph. Benech Impact Of Dummy Metal Filling Strategy Dedicated To Inductors Integrated In Advanced Thick Copper RF Beol European Workshop on Materials for Advanced Metallization 2008, Dresde, Allemagne, 2-5 mars 2008.</p>
<p>C. Pastore, F. Giancesello, D. Gloria, E. Serret, Ph. Benech Test Structure Definition for Dummy Metal Filling Strategy Dedicated to Advanced Integrated RF Inductors IEEE International Conference on Microelectronic Test Structures, Edinburgh, UK, 24-27 mars 2008</p>
<p>T. Hoang, P. Rey, M.-H. Vaudaine, Ph. Robert, Ph. Benech Effect of Mo layer on performance of AlN/Si SAW filter IEEE International Frequency Control Symposium, 2008, Honolulu, Hawaii, USA, 19-21 mai 2008</p>
<p>T. Hoang, P. Rey, M.-H. Vaudaine, Ph. Benech Effect of thin polyimide film on performance of AlN/SiO₂/Si SAW device PRIME 2008, Istanbul, Turquie, 22-25 Juin 2008</p>
<p>C. Pastore, F. Giancesello, D. Gloria, E. Serret, Ph. Benech Innovative and Complete Dummy Filling Strategy for RF Inductors Integrated in an Advanced Copper BEOL 38th European Microwave Integrated Circuits Conference 2008, Amsterdam, Hollande, 27-29 octobre 2008.</p>
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<p>H. Issa, J.-M. Duchamp, and P. Ferrari Miniature DBR Filters Compatible with Low Cost Substrates: Formulation, Proc. 14th IEEE Mediterranean Electrotechnical Conference, Ajaccio, France, 5-7 mai 2008.</p>
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<p>Siegfried Dossou; S. Joblot; D. Petit, P. Ancey A 2.5 GHz low phase noise oscillator design in 65nm CMOS technology with reduced current consumption, Proceedings of IEEE EDSSC 2008, Hong Kong, 8-10 décembre 2008.</p>

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<p>D. Kaddour, H. Issa, M. Abdelaziz, F. Podevin, E. Pistono, J.-M. Duchamp, P. Ferrari Behaviour study of low-loss slow-wave coplanar transmission lines for RFIC applications « Chip in the Pampa », 23th symposium on Microelectronics Technology and Devices (SBMICRO 2008), Gramado, Brésil, 1-4 september 2008.</p>
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<p>M. Gallitre, B. Blampey, B. Fléchet, A. Farcy, V. Arnal, C. Bermond, T. Lacrevez, V. Sbugnera, K. Hamioud, M. Aimadeddine, H. Chaabouni, J. Torres First evidence of dielectric loss effects with ultra low-k materials and impact on interconnect propagation performance Materials for Advanced Metallization Conf., Dresde, Allemagne, 2-5 mars 2008</p>
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<p>Emil Novakov, Jean-Michel Fournier, Low power, 20 Mbit/s, Ultra-Wide Band Transceiver Integrated Circuit Suitable for Communicating Objects Radio Interface”, XXIX URSI General Assembly, Chicago, Illinois USA, 7-16 août 2008.</p>
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<p>P. Xavier, P. Ferrari, D. Raully, J.-P. Laurent, and B. Mercier Réflectomètre six-ports pour la caractérisation in-situ des sols par spectrométrie diélectrique, 10èmes Journées de Caractérisation Microondes et Matériaux, Limoges, 2-4 avril 2008.</p>
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