

Publications of Prof. Hervé AUBERT

Papers in Refereed Journals

- [J-1] F.BOUZIDI, H.AUBERT, D.BAJON, H.BAUDRAND, V.FOUAD HANNA, "Equivalent Circuit Representation of Lossy Coplanar Waveguides", *Annals of Telecommunications*, vol. 47, No. 11-12, pp. 551-554, November-December 1992.
- [J-2] H.AUBERT, B.SOUNY, H.BAUDRAND, "Origin and Avoidance of Spurious Solutions in the Transverse Resonance Method," *IEEE Transactions on Microwave Theory and Techniques*, vol. MTT-41, pp. 450-456, March 1993.
- [J-3] M.AUBRION, H.AUBERT, H.BAUDRAND, "Analysis of discontinuous-layer Propagation Structures by Transverse Resonance Method," *Electronics Letters*, vol. 29, pp. 2086-2087, November 1993.
- [J-4] F.BOONE, H.AUBERT, H.BAUDRAND, "Complex Modes in Open and Shielded Lossless Planar Transmission lines and their correspondence with Leaky Modes," *Electronics Letters*, vol. 30, No. 3, pp. 246-248, February 1994.
- [J-5] M.NADARASSIN, H.AUBERT, H.BAUDRAND, "Analysis of Planar Structures by an Integral Approach using Entire Domain Trial Functions," *IEEE Transactions on Microwave Theory and Techniques*, vol. MTT-10, pp. 2492-2495, October 1995.
- [J-6] B.SOUNY, H.AUBERT, H.BAUDRAND, "Elimination of Spurious Solutions in the Calculation of Eigenmodes by Moment Method," *IEEE Transactions on Microwave Theory and Techniques*, vol. MTT-44, pp. 154-157, January 1996.
- [J-7] I.EL KOUHEN, H.AUBERT, M.GHOMI, H.BAUDRAND,"Q-Factor Computation of Radiation Loss corresponding to Surface Wave in a Patch Circular Resonator," *Electronics Letters*, vol. 32, No. 22, pp. 2039-2041, October 1996.
- [J-8] M.AZIZI, M.BOUSOUIS, H.AUBERT, H.BAUDRAND, "A Three-dimensional Analysis of Planar Discontinuities by an Iterative Method," *Microwave and Optical Technology Letters*, vol.13, No. 6, pp. 372-376, December 1996.
- [J-9] F.BOUZIDI, H.AUBERT, D.BAJON, H.BAUDRAND, "Equivalent Network Representation of Boundary Conditions Involving Generalized Trial Quantities - Application To Lossy Transmission Lines With Finite Metallization Thickness", *IEEE Transactions on Microwave Theory and Techniques*, vol. MTT-45, pp. 869-876, June 1997.
- [J-10] H.BAUDRAND, H.AUBERT, D.BAJON, F.BOUZIDI, "Equivalent Network Representation of Boundary Conditions Involving Generalized Trial Quantities," *Annals of Telecommunications*, vol.52, No. 5-6, pp. 285-292, 1997.
- [J-11] H.AUBERT, D.L.JAGGARD, "Fractal Superlattices and Their Wavelet Analysis," *Optics Communications*, vol./issue 149/406, pp. 207-212, June 1998.
- [J-12] A.-S. SALEH, H. AUBERT, "Use of Variable Lacunarity, Multi-gap, Cantor Slabs in Waveguides for the Design of Microwave Filters," *Microwave and Optical Technology Letters*, vol. 28, No. 2, pp. 127-130, January 2001.
- [J-13] A.-S. SALEH, H. AUBERT, "Self-similar Multi-slab Media with Variable Lacunarity for the Design of Microwave Filters," *Electronics Letters*, vol. 37, No. 17, pp. 1071-1073, August 2001.
- [J-14] A.-S. SALEH, H. AUBERT, D.L. JAGGARD, "Lacunarity of Multi-gap Fractal Superlattices Using Wavelet Analysis," *Optics Communications*, vol./issue 197/4-6, pp. 255-260, October 2001.
- [J-15] H.AUBERT, D.L.JAGGARD, "Wavelet Analysis of transients in Fractal Superlattices," *IEEE Transactions on Antennas and Propagation*, vol. AP-50, No. 3, pp. 338-345, March 2002.
- [J-16] Y. LAKSARI, H. AUBERT, D.L.JAGGARD, "The Wavelet-based Partition Function for the Remote Analysis of Discrete Self-similar Objects," *Electronics Letters*, vol.38, No. 14, pp. 741-742, July 2002.
- [J-17] F. SURRE, A.-S. SALEH, H. AUBERT, "Frequency Response of Self-similar Planar Waveguides," *Microwave and Optical Technology Letters*, vol. 37, No. 3, pp. 208-210, May 2003.
- [J-18] D.DUBUC, M.SAADAOU, S.MELLE, F.FLOURENS, L.RABBIA, B.DUCAROUGE, K.GRENIER, P.PONS, A.BOUKABACHE, L.BARY, A.TAKACS, H.AUBERT, O.VENDIER, J.L.ROUX, R.PLANA, "Smart MEMS concept for high secure RF and millimeterwave communications," *Microelectronics Reliability*, Vol. 44, No. 6, pp. 899-907, June 2004.
- [J-19] A. TAKACS, H. AUBERT, P. PONS, T. PARRA, R. PLANA, J. GRAFFEUIL, "A miniature coplanar bandstop filter for Ka-band applications based on an original Resonant Coupling Irises topology," *Electronics Letters*, vol. 40, No. 20, pp. 1274-1275, September 2004.
- [J-20] A. TAKACS, D. LILLONGA, H. AUBERT, J.W. TAO, P. PONS, R. CRAMPAGNE, R. PLANA, J.CH. CAYROU, "A Broadband CPWG-to-WR Transition for millimetre waves applications", *Microwave and Optical Technology Letters*, vol. 43, No. 1, pp. 11-14, October 2004.
- [J-21] M. BEN ABDILLAH, O. PASCAL, H. AUBERT, "Cross Shaped Fractal Antenna: a compact circularly polarized radiating element", *Microwave and Optical Technology Letters*, vol. 43, No. 6, pp. 518-521, December 20, 2004.
- [J-22] D. VOYER, H. AUBERT, J. DAVID, "Radar Cross Section of Self-similar Targets," *Electronics Letters*, vol. 41, No. 4, pp. 215-217, February 17, 2005.
- [J-23] Y. LAKSARI, H. AUBERT, D.L.JAGGARD, J.Y. TOURNERET, "Lacunarity of Fractal Superlattices: a Remote Estimation using Wavelets," *IEEE Transactions on Antennas and Propagation*, vol. AP-53, No. 4, pp. 1358-1363, April 2005.

- [J-24] E. PERRET, H. AUBERT, R. PLANA, "N-port Network for the Electromagnetic Modelling of MEMS Switches," *Microwave and Optical Technology Letters*, Vol. 45, No. 1, pp. 46-49, 5 April 2005.
- [J-25] E. PERRET, H. AUBERT, "Scale Changing Technique for the Computation of the Input Impedance of Active Patch Antennas," *IEEE Antennas and Wireless Propagation Letters*, Vol. 4, pp. 326-328, 2005.
- [J-26] E. PERRET, H. AUBERT, H. LEGAY, "Scale Changing Technique for the Electromagnetic Modelling of MEMS-controlled Planar Phase-shifters", *IEEE Transactions on Microwave Theory and Techniques*, Vol. 54, Issue 9, pp. 3594-3601, September 2006.
- [J-27] D. VOYER, H. AUBERT, J. DAVID, "Scale Changing Technique for the Electromagnetic Modeling of Planar Self-similar Structures," *IEEE Transactions on Antennas and Propagation*, Vol. 54, Issue 10, pp. 2783-2789, October 2006.
- [J-28] N. RAVEU, H. AUBERT, H. LEGAY, "Are Cantor Arrays Effective for Designing Thinned Arrays?" *Microwave and Optical Technology Letters*, Vol. 48, No. 10, pp. 2041-2043, October 2006.
- [J-29] S. HEBIB, N. RAVEU, H. AUBERT, "Cantor Spiral Array for the Design of Thinned Arrays", *IEEE Antennas and Wireless Propagation Letters*, Vol. 5, pp. 104-106, 2006.
- [J-30] A. TAKACS, D. NECULOIU, D. VASILACHE, A. MULLER, P. PONS, L. BARY, P. CALMON, H.AUBERT, R. PLANA, "Tunable bandstop MEMS filter for millimeter wave applications," *Electronics Letters*, vol.43, No. 12, pp. 676-677, June 2007.
- [J-31] J.R.POIRIER, H.AUBERT, J.DAVID, "Minimizing Electromagnetic Scattering by Varying Height of Metallic Surfaces," *IEEE Microwave and Wireless Component Letters*, vol. 18, No. 5, pp. 299-301, May 2008.
- [J-32] N.RAVEU, E.PERRET, H.AUBERT, H.LEGAY, "Scale Changing Technique: a design tool for reflectarrays active cells," *Proceedings of the European Microwave Association*, Vol. 4, Issue 2, pp. 163-168, September 2008.
- [J-33] M. ROMER, A. BARKA, H. AUBERT, J.P. MARTINAUD, M. SOIRON, "Load-pull Effect on Radiation Characteristics of Active Antennas," *IEEE Antennas and Wireless Propagation Letters*, vol. 7, pp.550-552, 2008.
- [J-34] A. ALI, H. AUBERT, "Fractal superlattice Cover with Variable Lacunarity for Patch Antenna Directivity Enhancement: Analysis and design," *WSEAS Transactions on Communications*, vol. 10, No. 7, pp. 1035-1044, October 2008.
- [J-35] F.COCCETTI, D.PEYROU, M.AL AHMAD, V.PUYAL, P.PONS, D.DRAGOMIRESCU, H.AUBERT, R.PLANA, "RF MEMS: status and perspectives," Invited article in *Physica Status Solidi C*, vol.5, No. 12, pp. 3822-3827, November 2008.
- [J-36] S.HEBIB, H.AUBERT, O.PASCAL, N.J.G.FONSECA, L. RIES, J.-M. E. LOPEZ, "Multi-band pyramidal antenna loaded with a cut-off open-ended waveguide," *IEEE Transactions on Antennas and Propagation*, vol. 57, No. 1, pp. 266-270, January 2009.
- [J-37] S.HEBIB, H.AUBERT, O.PASCAL, N.J.G.FONSECA, L. RIES, J.-M. E. LOPEZ, "Sierpinski pyramidal antenna loaded with a cut-off waveguide," *IEEE Antennas and Wireless Propagation Letters*, Vol. 8, pp. 352-355, 2009.
- [J-38] A.ALI, H.AUBERT, N.J.G.FONSECA, F.COCCETTI, "Wideband two-layer SIW coupler: design and experiment," *Electronics Letters*, vol. 45, No. 13, pp. 687-689, June 2009.
- [J-39] J.R.POIRIER, H.AUBERT, D.L.JAGGARD, "Lacunarity of Rough Surfaces from the Wavelet Analysis of Scattering Data," *IEEE Transactions on Antennas and Propagation*, vol. 57, No. 7, pp. 2130-2136, July 2009.
- [J-40] H.AUBERT, "The Concept of Scale-Changing Network in the Global Electromagnetic Simulation of Complex Structures," *Progress In Electromagnetics Research B*, vol. 16, pp 127-154, 2009.
- [J-41] F. KHALIL, H. AUBERT, F. COCCETTI, P. LORENZ, R.PLANA, "Grid-based Global Electromagnetic Simulation Tool for Parametric Distributed Analysis of Array Antennas," *Progress In Electromagnetics Research M*, Vol. 10, pp. 1-12, 2009.
- [J-42] F. A.TAHIR, H.AUBERT, E.GIRARD, "Equivalent Electrical Circuit for Designing MEMS-Controlled Reflectarray Phase Shifters", *Progress In Electromagnetics Research*, pp. 1-12, January 2010.
- [J-43] N. J.G.FONSECA, H.AUBERT, "Compact Helical Antennas - A Review" *Recent Patents on Electrical Engineering Journal*, Vol. 3, No. 1, pp. 1-9, January 2010.
- [J-44] H.HALLIL, F.CHEBILA, P.MENINI, H.AUBERT, "Feasibility of Passive Gas Sensor Based on Whispering Gallery Modes and its Radar Interrogation: Theoretical and Experimental Investigations," *Sensors & Transducers journal*, Vol. 116, Issue 5, pp.38-48, May 2010.
- [J-45] F.KHALIL, E.B.TCHIKAYA, R.SHARROCK, T.MONTEIL, F.COCCETTI, H.AUBERT, "Grid-based SCT Approach for the Global Electromagnetic Simulation and Design of Finite-Size and Thick Dichroic Plate," *Applied Computational Electromagnetics Society (ACES) Journal*, Vol. 25, No. 11, pp.903-913, November 2010.
- [J-46] A.TAKACS, N.J.G.FONSECA, H.AUBERT, "Height Reduction of the Axial-Mode Open-Ended Quadrifilar Helical Antenna", *IEEE Antennas and Wireless Propagation Letters*, vol. 9, pp. 942-945, 2010.
- [J-47] F.KHALIL, C.-J.BARRIOS-HERNANDEZ, A.RASHID, H.AUBERT, Y.DENNEULIN, F.COCCETTI, R.PLANA, "Parallelization of the Scale Changing Technique in Grid Computing environment for the Electromagnetic Simulation of Multi-scale Structures," *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, John Wiley & Sons, vol. 24, Issue 1, pp. 58-77, January/February 2011.

- [J-48] E.B.TCHIKAYA, F.KHALIL, F.A.TAHIR, H.AUBERT, "Multi-scale Approach for the Electromagnetic Simulation of Finite Size and Thick Frequency Selective Surfaces," *Progress In Electromagnetics Research M*, Vol. 17, pp. 43-57, 2011.
- [J-49] S.HEBIB, N.J.G.FONSECA, P.-A.FAYE, H.AUBERT, "Compact Printed Quadrifilar Helical Antenna with Iso-Flux-Shaped Pattern and High Cross-Polarization Discrimination," *IEEE Antennas and Wireless Propagation Letters*, vol. 10, pp. 635-638, January 2011.
- [J-50] F.A.TAHIR, H.AUBERT, E.GIRARD, "Optimization of MEMS-Controlled Reflectarray Unit Cell," *IET Microwaves, Antennas & Propagation*, Vol. 5, Issue 3, pp. 271-276, February 2011.
- [J-51] A.ALI, N.J.G. FONSECA, F. COCETTI, H. AUBERT, "Design and Implementation of Two-Layer Compact Wideband Butler Matrices in SIW Technology for Ku-Band Applications," *IEEE Transactions on Antennas and Propagation*, Vol. 59, Issue 2, pp. 503-511, February 2011.
- [J-52] A.ALI, H.B. EL-SHAARAWY, H.AUBERT, "Compact Wideband Two-Layer Half-Mode Substrate Integrated Waveguide 90° Coupler," *Electronics Letters*, Vol. 47, Issue 10, pp. 598-599, May 2011.
- [J-53] H. AUBERT, "RFID Technology for Human Implant devices," *Compte-Rendus de l'Académie des Sciences*, Elsevier, tome XII, fascicule 7, pp.675-683, September 2011.
- [J-54] A.ALI, H.B. EL-SHAARAWY, H.AUBERT, "Miniaturized Hybrid Ring Coupler Using Electromagnetic Bandgap Loaded Ridge Substrate Integrated Waveguide," *IEEE Microwave and Wireless Components Letters*, Vol. 21, No 9, pp. 471-473, September 2011.
- [J-55] M.-M.JATLAOUI, F.CHEBILA, P.PONS, H.AUBERT, "Working Principle Description of the Wireless Passive EM Transduction Pressure Sensor," *The European Physical Journal - Applied Physics*, Vol. 56, Issue 1, Article 13702, October 2011.
- [J-56] T. DJERAFI, H. AUBERT, K. WU, "Ridge Substrate Integrated Waveguide (RSIW) Dual Band Hybrid Ring Coupler," *IEEE Microwave and Wireless Components Letters*, Vol. 22, Issue 2, pp. 70-72, February 2012.
- [J-57] C. LECLERC, H.AUBERT, A. ALI, A.ANNABI, M.ROMIER, "The Close-Form Solution for Symmetric Butler Matrices," *Progress In Electromagnetics Research C*, Vol. 26, pp. 167-179, 2012.
- [J-58] M.M.JATLAOUI, D.DRAGOMIRESCU, M.ERCOLI, M.KRAMER, M. CHARLOT, P.PONS, H.AUBERT, R.PLANA, "Wireless Communicating Nodes at 60GHz Integrated on Flexible Substrate for Short Distance Instrumentation in Aeronautics and Space", *International Journal of Microwave and Wireless Technologies*, Vol. 4, No1, pp.109-117, February 2012.
- [J-59] N. FONSECA, A. ALI, H. AUBERT, "Cancellation of Beam Squint with Frequency in Serial Beam Forming Network fed Linear Array Design," *IEEE Antennas and Propagation Magazine*, vol. 54, Issue 1, pp.32-39, February 2012.
- [J-60] T.THAI, M.-M.JATLAOUI, F.CHEBILA, H.AUBERT, P.PONS, G.-R.DEJEAN, M.-M. TENTZERIS, R.PLANA, "Design and Development of a Novel Passive Wireless Ultrasensitive RF Temperature Transducer for Remote Sensing," *IEEE Sensors Journal*, Vol. 12, Issue 9, pp. 2756-2766, September 2012.
- [J-61] S.BOUAZIZ, F.CHEBILA, A.TRAILLE, P. PONS, H. AUBERT, M.-M. TENTZERIS, "Novel Micro-fluidic Structures for Wireless Passive Temperature Telemetry Medical Systems Using Radar Interrogation Techniques in Ka-band," Invited paper, *IEEE Antennas and Wireless Propagation Letters*, Special Cluster on Biomedical Telemetry, vol. 11, pp. 1706-1709, 2012.
- [J-62] D.MEDHAT, A.TAKACS, H.AUBERT, "A Methodology To study the Electromagnetic Behavior of a Cryogenic Metallic System used to Control the Ratchet Effect," *Progress In Electromagnetics Research M*, Vol. 23, pp. 123-137, 2012.
- [J-63] A.TAKACS, H.AUBERT, D.BELOT, H.DIEZ, "Miniaturization of Quadrifilar Helical Antenna: Impact on Efficiency and Phase Center Position," *IET Microwaves, Antennas & Propagation*, Vol. 7, Issue 3, pp. 202-207, February 2013.
- [J-64] A. ALI, H. B. EL-SHAARAWY, H. AUBERT, "Millimeter-Wave Substrate Integrated Waveguide Passive Van Atta Reflector Array," *IEEE Transactions on Antennas and Propagation*, Vol. 61, Issue 3, pp. 1465-1470, March 2013.
- [J-65] T.THAI, H.AUBERT, P.PONS, G.DEJEAN, M.- M.TENTZERIS, R.PLANA, "Novel Design of a Highly Sensitive RF Strain Transducer for Passive and Remote Sensing in Two Dimensions," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 61, Issue 3, pp. 1385-1396, March 2013.
- [J-66] F.-A. TAHIR, H. AUBERT, "Electromagnetic Modeling of Microstrip Reflectarrays using Scale Changing Technique," *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, Vol. 26, Issue 3, pp. 205-224, May-June 2013.
- [J-67] A. TAKACS, H. AUBERT, L.DESPOISSE, S. FREDON, "Microwave energy harvesting for satellite applications," *Electronics Letters*, Vol. 49, Issue 11, pp. 722-724, May 2013.
Paper selected for the Special features on "broadcast energy" (<http://digital-library.theiet.org/content/journals/el/49/11>)
- [J-68] H.AUBERT, F.CHEBILA, M.JATLAOU, T.THAI, H.HALLIL, A.TRAILLE, S.BOUAZIZ, A.RIFAI, P.PONS, P.MENINI, M.TENTZERIS, "Wireless Sensing and Identification based on RADAR Cross Sections Variability Measurement of Passive Electromagnetic Sensors," *Annals of Telecommunications*, Special Issue on Chipless RFID, Vol. 68, Issue 7-8, pp. 425-435, August 2013.

- [J-69] A.TAKACS, H. AUBERT, S. FREDON, L. DESPOISSE, H. BLONDEAU, "Microwave Power Harvesting for Satellite Health Monitoring," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 62, Issue 4, pp. 1090-1098, April 2014.
- [J-70] C. LECLERC, M.ROMIER, H.AUBERT, A.ANNABI, "Ka-Band Multiple Feed per Beam Focal Array Using Interleaved Couplers," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 62, Issue 6, pp. 1322-1329, June 2014.
- [J-71] B. S. COOK, R. VYAS, S. KIM, T. THAI, T. LE, A. TRAILLE, H. AUBERT, M. M. TENTZERIS, "RFID-Based Sensors for "Zero-Power" Autonomous Wireless Sensor Networks," *IEEE Sensors Journal*, Vol. 14, No. 8, pp. 2419-2431, August 2014. Invitation for a lead article for the special issue of *IEEE Sensors Journal on Antennas for Sensors* - One of the 25 most downloaded *IEEE Sensors Journal* papers in the months of June 2014 and July 2014
- [J-72] J. LOMINE, C. MORLAAS, H. AUBERT, "Novel Vector Sensors design with three co-located or distributed elements for the 3D DoA Estimation," *Progress In Electromagnetics Research B*, Vol. 57, pp. 207-220, 2014.
- [J-73] M. ALEXANDRU, T.MONTEIL, P.LORENZ, F. COCCETTI, H. AUBERT, "Large Electromagnetic Problem on Large Scale Parallel Computing Systems," *Concurrency and Computation: Practice & Experience*, John Wiley & Sons, vol. 27, No. 13, pp. 3184-3204, September 2015.
- [J-74] J. LOMINE, C. MORLAAS, C. IMBERT, H. AUBERT, "Dual-Band Vector Sensor for Direction of Arrival Estimation of Incoming Electromagnetic Waves," *IEEE Transactions on Antennas and Propagation*, Vol.63, No.8, pp. 3662-3671, August 2015.
- [J-75] A. TAKACS, H. AUBERT, D. BELOT, H. DIEZ, "Miniaturization of Compact Quadrifilar Helix Antennas for Telemetry, Tracking and Command Applications", *Progress In Electromagnetics Research C (PIER C)*, Vol. 60, pp. 125-136, 2015.
- [J-76] S. KIM, A.SHAMIM, A.GEORGIADIS, H.AUBERT, M.-M. TENTZERIS, "Fabrication of Fully Inkjet-Printed Vias and SIW Structures on Thick Polymer Substrates," *IEEE Transactions on Components, Packaging and Manufacturing Technology*, Vol. 6, No. 3, pp. 486-496, March 2016.
- [J-77] A. OKBA, A.TAKACS, H. AUBERT, S.CHARLOT, P.-F. CALMON, "Multiband Rectenna for Microwave Applications," *Compte-Rendus de l'Académie des Sciences*, special Issue on "Energy in Radiosciences", Elsevier, fascicule 18, pp.107-117, January 2017.
- [J-78] D. HENRY, H.AUBERT, T.VÉRONÈSE, É.SERRANO, "Remote Estimation of Intra-Parcel Grapes Quantity From Three-Dimensional Imagery Technique Using Ground-based Microwave FMCW Radar," *IEEE Instrumentation and Measurement Magazine*, Vol. 20, Issue 3, pp. 20-24, January 2017.
- [J-79] COST Action IC1301 Team, "Europe and the Future for WPT," *IEEE Microwave Magazine*, pp. 56-87, June 2017.
- [J-80] D. HENRY, J.G.D. HESTER, H. AUBERT, P. PONS AND M.-M. TENTZERIS, "Long Range Wireless Interrogation of Passive Humidity Sensors using Van-Atta Cross-Polarization Effect and Different Beam Scanning Technique," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 65, Issue 12, pp. 5345-5354, December 2017.
- [J-81] J. DUPLOUY, C. MORLAAS, H. AUBERT, P. POTIER, P. POULIGUEN, C. DJOMA, "Grounded Vector Antenna for Embedded 3D Electromagnetic Direction Finding Applications," *IEEE Antennas and Wireless Propagation Letters*, Vol. 17, Issue 2, pp.197-200, February 2018.
- [J-82] D. HENRY, H. AUBERT, P. PONS, J. LORENZO, A. LÁZARO, D. GIRBAU, "Novel technique for the wireless reading of passive microfluidic sensors," *Electronics Letters*, Vol. 54, No. 3, pp. 150-151, February 2018.
- [J-83] D. HENRY, H. AUBERT, D. HAZARD, E. RICARD, M. LIHOREAU, "Automated monitoring of livestock behavior using frequency-modulated continuous-wave radars," *Progress In Electromagnetics Research M*, Vol. 69, pp. 151-160, 2018.
- [J-84] B. ROUGIER, H. AUBERT, A. LEFRANÇOIS, Y. BARBARIN, J. LUC, A. OSMONT, "Reflection of Electromagnetic Waves on Moving Dielectric Interfaces for Analyzing Shock Phenomenon in Solids," *RadioScience*, Vol. 53, Issue 7, pp. 888-894, July 2018.
- [J-85] J. PHILIPPE, M.V. DE PAOLIS, C. ARENAS-BUENDIA, D. HENRY, A. COUSTOU, A. RUMEAU, H. AUBERT, P. PONS "Passive and Chipless Packaged Transducer for the Remote Measurement of the Pressure in Harsh Environment," *Sensors and Actuators A: Physical*, Vol. 279, pp. 753-762, August 2018.
- [J-86] A. OKBA, A. TAKACS, H. AUBERT, "Compact flat dipole rectenna for IoT Applications," *Progress In Electromagnetics Research C*, Vol. 87, pp. 39-49, 2018.
- [J-87] B. ROUGIER, A. LEFRANÇOIS, V. CHUZEVILLE, S. POEUF, H. AUBERT, "High explosives static and dynamic relative permittivity measurements in the W band to investigate shock and detonation phenomena," *Propellants, Explosive, Pyrotechnics*, pp. 153-159, February 2019.
Cover page of the Journal: <https://onlinelibrary.wiley.com/doi/pdf/10.1002/prop.201800097>
- [J-88] J. PHILIPPE, M. V. DE PAOLIS, D. HENRY, A. RUMEAU, A. COUSTOU, P. PONS, H. AUBERT, "In-Situ Wireless Pressure Measurement Using Zero-Power Packaged Microwave Sensors," *Sensors*, Vol. 19, Issue 6, pp.1263-1274, March 2019.
- [J-89] OKBA, A. TAKACS, H. AUBERT, "Compact Rectennas for Ultra-Low Power Wireless Transmission Applications," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 67, Issue 5, pp. 1697-1707, May 2019.
- [J-90] J. DUPLOUY, C. MORLAAS, H. AUBERT, P. POTIER, P. POULIGUEN, C. DJOMA, "Wideband and Reconfigurable Vector Antenna Using Radiation Pattern Diversity for 3-D Direction-of-Arrival Estimation," *IEEE Transactions on Antennas and Propagation*, Vol. 67, Issue 6, pp. 3586-3596, June 2019.
- [J-91] D. HENRY, H.AUBERT, T.VÉRONÈSE, "Proximal Radar Sensors for Precision Viticulture," *IEEE Transactions on Geoscience and Remote Sensing*, Vol. 57, Issue 7, pp. 4624-4635, July 2019.

- [J-92] A. OKBA, D. HENRY, A. TAKACS, H. AUBERT, "Autonomous RFID Sensor Node using a Single ISM band for Both Wireless Power Transfer and Data Communication," *Sensors*, 19 (15), 3330, July 2019.
- [J-93] J. DUPLOUY, C. MORLAAS, H. AUBERT, P. POTIER, P. POULIGUEN, "Wideband Vector Antenna for Dual-Polarized and 3-D Direction Finding Applications," *IEEE Antennas and Wireless Propagation Letters*, Vol. 18, Issue 8, pp.1572-1575, August 2019.
- [J-94] M.V. DE PAOLIS, J. PHILIPPE, A. RUMEAU, A. COUSTOU, S. CHARLOT, H. AUBERT, P. PONS, "Impact of Anodic Bonding on Transmission Loss in 23GHz pressure transducers," *Microelectronics Reliability*, Vol. 100-101, Article 113352, September 2019.
- [J-95] D. HENRY, T. MARCHAL, J. PHILIPPE, P.PONS, H.AUBERT, "Classification of Radar Echoes for Identification and Remote Reading of Chipless Millimeter-wave Sensors," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 69, Issue 1, pp. 926-937, January 2021.
- [J-96] M. CHALNOT, A. COUSTOU, H. AUBERT, P. PONS, M. LAVAYSSIÈRE, A. LEFRANÇOIS, J. LUC, "Wireless Transmission of Friedlander-type Signals for the Dynamic Measurement of Blast Pressure," *Propellants, Explosive, Pyrotechnics*, Vol. 46, Issue 4, pp. 563-571, April 2021.
- [J-97] J. PHILIPPE, M. FERRY, S. LE-CAER, S. CHARLOT, S. ASSIÉ, A. LECESTRE, G. LIBAUDE, A. FERRAND, P. PONS, H. AUBERT, "Microelectromechanical Transducer to Monitor High-Doses Nuclear Irradiations," *Sensors*, 21 (17), 5912, September 2021.
- [J-98] A. DORE, C. PASQUARETTA, D. HENRY, E. RICARD, J.-F. BOMPA, M. BONNEAU, A. BOISSY, D. HAZARD, M. LIHOREAU, H. AUBERT, "A Non-invasive Millimetre-wave Radar Sensor for Automated Behavioural Tracking in Precision Farming – Application to Sheep Husbandry," *Sensors*, 21 (23), 8140, December 2021.
- [J-99] D. HENRY, H. AUBERT, P. GALAUP, T. VERONESE, "Dynamic Estimation of the Yield in Precision Viticulture from Mobile Millimeter-Wave Radar Systems," accepted for publication in *IEEE Transactions on Geoscience and Remote Sensing*, December 2021 (doi : 10.1109/TGRS.2021.3133017)

Book

- [Bk-1] H.AUBERT, H.BAUDRAND, "L'électromagnétisme par les schémas équivalents: résumé de cours et exercices résolus," *Cépaduès-Éditions*, Collection Polytech, 221 pages, 2003. ISBN: 2.85428.618.9 (in french)

Book Chapters

- [Ch-1] H.AUBERT, D.L.JAGGARD, "Continuous Wavelet Transform Analysis of Fractal Superlattices," in *Fractals : Theory and Applications in Engineering*, M. Dekking, J. Lévy Véhel, E. Lutton and C. Tricot, Eds., Springer Verlag, Berlin, pp. 245-260, 1999. ISBN: 1-85233-163-1.
- [Ch-2] K.GRENIER, L.RABBIA, D.DUBUC, A.TAKACS, P.PONS, P.CAUDRILLIER, O.PASCAL, P.COMBES, H.AUBERT, J.GRAFFEUIL, H.BAUDRAND, R.PLANA, "Microsystem concept for RF and millimeterwave communications," in *Micromachined Microwave Devices and Circuits*, Edition de l'Académie de Roumaine (Editura Academiei Romane), pp.45-65, November 2002. ISBN: 973-27-0908-1
- [Ch-3] A.-S. SALEH, H. AUBERT, "Self-Similar and Lacunar Stratified Media for the Design of Microwave Filters," in *New Trends and Concepts in Microwave Theory and Technics 2003*, H. Baudrand, Ed., Research Signpost, 37/661 (2), Fort P.O., Trivandrum-695 023, Kerala, India, pp. 117-129, 2003. ISBN : 81-271-0017-X

Communications in International Conference Proceedings

- [C-1] B.R.MOON, C.CAVALLI, H.AUBERT, H.BAUDRAND, "Modeling of Planar Circuit with Edge Line Concept and its Application to Triplate and Microstrip Discontinuities," *3rd International Symposium of Recent Advances in Microwaves Technology*, Reno, Nevada, USA, 18-21 August 1991.
- [C-2] J.CHRAMIEC, H.AUBERT, H.BAUDRAND, "Application of Bilateral Slotlines to Broadband Microwave Components," *23rd European Microwave Conference*, Madrid, SPAIN, September 1993.
- [C-3] P.TAILLARDAT, H.AUBERT, H.BAUDRAND, "A combination of Quasi-static Approach with an Integral Method for the Characterization of Microwave Planar Circuits," *IEEE MTT-S International Microwave Symposium*, San Diego, California, USA, vol. 1, pp.417-420, 23-27 May 1994.
- [C-4] A.GOMEZ NETO, S.ARIGUEL, H.AUBERT, D.BAJON, H.BAUDRAND, "Analysis of Shielding Effects in Microstrip by a TRT Alternative Formulation," *International Symposium on Electromagnetic Compatibility*, Sao Paulo, BRAZIL, 5-9 December 1994.
- [C-5] A.GOMEZ NETO, S.ARIGUEL, H.AUBERT, D.BAJON, H.BAUDRAND, "An Alternative Formulation of the Transverse Resonance Technique," *11th Annual Review of Progress in Applied Computational Electromagnetics*, Monterey, California, USA, 20-24 March 1995.

- [C-6] M.NADARASSIN, H.AUBERT, H.BAUDRAND, "Analysis of Planar Structures by an Integral Multi-scale Approach," *IEEE MTT-S International Microwave Symposium*, Orlando, Florida, USA, vol.2, pp. 653-656, 14-19 May 1995.
- [C-7] M.AZIZI, H.AUBERT, H.BAUDRAND, "A new Iterative Method for Scattering Problems," *25th European Microwave Conference*, Bologna, ITALY, vol.1, pp. 255-258, 4-7 September 1995.
- [C-8] B.STORER, H.AUBERT, H.BAUDRAND, "A New Modal Approach for Planar Transmission Line to Waveguide Three-port Transition," *IEEE MTT-S International Microwave Symposium*, Denver, Colorado, USA, vol. 1, pp. 203-206, 8-13 June 1997.
- [C-9] H.AUBERT, D.L.JAGGARD, "Remote Characterization of Fractal Superlattices using Wavelets," *Progress in Electromagnetics Research Symposium*, Nantes, France, vol. 1, p. 372, 13-17 July 1998.
- [C-10] H.AUBERT, D.L.JAGGARD, "Continuous Wavelet Transform Analysis of Fractal Superlattices," *Fractal in Engineering (FE'99)*, Delft, Netherlands, p. 341, 14-16 June 1999.
- [C-11] R.S. N'GONGO, H.AUBERT, H.BAUDRAND, J. LALAUURIE, G. MARTINS, "Interconnect and Packaging Electrical Circuits Network," *IEEE Antennas Propagat. Symp.*, Orlando, Florida, USA, vol. 2, pp. 974-977, 11-16 July 1999.
- [C-12] A.D.JAGGARD, D.L.JAGGARD, H.AUBERT, "Fractal Superlattices : Frequency and Time-scale Methods," *XXVIth General Assembly of International Union of Radio Science*, Toronto, Canada, 13-21 August 1999.
- [C-13] A.-S. SALEH, H. AUBERT, "Design of Microwave Fractal Filters," *Progress in Electromagnetics Research Symposium*, p.497, Cambridge, Massachusetts, USA, 5-14 July 2000.
- [C-14] Y. LAKSARI, H. AUBERT, D.L.JAGGARD, "Wavelet-based Partition Function for the Analysis of Transient on Fractal Objects," *URSI International Symposium on Electromagnetic Theory*, Victoria, Canada, pp. 172-174, 13-17 May 2001.
- [C-15] K.GRENIER, R.PLANA, T.PARRA, P.PONS, L.RABBIA, J.GRAFFEUIL, A.TAKACS, H.AUBERT, P.CAUDRILLIER, O.PASCAL, P.COMBES, "MEMs and Silicon Micromachined Components for Communications Systems," *8th Mixed Design of Integrated Circuits and Systems*, Zakopane, Poland, pp.23-29, 21-23 June 2001.
- [C-16] P. PONS, K.GRENIER, L.RABBIA, T.PARRA, R.PLANA, P.CAUDRILLIER, P. COMBES, O.PASCAL, H.AUBERT, A.TAKACS, M. SALEZ, G. GOL'TSMAN, "Membrane Supported Circuits for Millimetric and Sub-millimetric Wavelength," *26th International Conference on Infrared and Millimeter Waves*, Toulouse, France, 10-14 September 2001.
- [C-17] K.GRENIER, L.RABBIA, P.PONS, A.TAKACS, T.PARRA, J.GRAFFEUIL, H.AUBERT, R.PLANA, "Advanced analysis and design methods for RF and millimeter wave MEMS," *15th European Conference on Circuit Theory and Design*, Helsinki, Finlande, 28-31 August 2001.
- [C-18] A. TAKACS, H. AUBERT, P. PONS, R. PLANA, T. PARRA, J. GRAFFEUIL, H. BAUDRAND, J.L. CAZAUX, "An Original Micromachined Planar Ka-Band Filter based on Resonant Coupling Irises Topology ," *International Semiconductor Conference*, 24th Edition, Sinaia, Romania, pp. 147-150, 9-13 October 2001.
- [C-19] K. GRENIER, L. RABBIA, A. TAKACS, P. PONS, T. PARRA, P. CAUDRILLIER, O. PASCAL, H. AUBERT, R. PLANA, "MEMs Technology as a Contender for the Future Wireless Applications," *International Semiconductor Conference*, 24th Edition, Sinaia, Romania, pp. 101-110, 9-13 October 2001.
- [C-20] Y. LAKSARI, H. AUBERT, D.L.JAGGARD, "Wavelet-based Partition Function for the Analysis of Transient in Self-similar Objects", *European Symposium on Numerical Methods in Electromagnetics*, Toulouse, France, pp.337-340, 6-8 March 2002.
- [C-21] K. GRENIER, D. DUBUC, L. RABBIA, A. TAKACS, P.PONS, P. CAUDRILLIER, O. PASCAL, H. AUBERT, H. BAUDRAND, J.W. TAO, P. COMBES, J. GRAFFEUIL, R. PLANA, "MEMS devices for the future wireless applications", *4th IEEE International Caracas Conference on Devices, Circuits and Systems*, Oranjestad, Aruba, pp. D031.1-D031.8, 17-19 April 2002.
- [C-22] Y. LAKSARI, H. AUBERT, J.Y. TOURNERET, D.L.JAGGARD, "Remote Estimation of Fractal Descriptors from Transients corrupted by Noise," *Progress in Electromagnetics Research Symposium*, Cambridge, Massachusetts, p. 172, USA, 1-5 July 2002.
- [C-23] F. SURRE, Y. LAKSARI, H. AUBERT, "Fractal Planar Filters for Multi-Band Microwave Applications," *Progress in Electromagnetics Research Symposium*, Cambridge, Massachusetts, USA, 1-5 July 2002.
- [C-24] F. SURRE, A.S. SALEH, H. AUBERT, "Discrete Self-Similar Waveguides for the Design of Selective Microwave Filters," *URSI International Symposium on Electromagnetic Theory*, Maastricht, Netherlands, 17-24 August 2002.
- [C-25] Y. LAKSARI, H. AUBERT, D. L. JAGGARD, "Remote Analysis of Discrete Self-Similar Objects from a Wavelet-based Partition Function," *IEEE Antennas and Propagation Symposium*, San Antonio, Texas, USA, vol. 3, pp. 632-635, 16-21 June 2002.
- [C-26] F. SURRE, A.S. SALEH, H. AUBERT, "Self-Similar Structures for the Design of Selective Microwave Filters," *IEEE Antennas and Propagation Symposium*, San Antonio, Texas, USA, vol. 2, pp. 840-843, 16-21 June 2002.
- [C-27] P. CAUDRILLIER, A. TAKACS, O. PASCAL, H. AUBERT, P. PONS, R. PLANA, "Compact Circularly Polarized Radiating Element for Ka-band Satellite Communications," *IEEE Antennas and Propagation Symposium*, San Antonio, Texas, USA, vol. 1, pp. 18-31, 16-21 June 2002.

- [C-28] A. TAKACS, H. AUBERT, P. PONS, T. PARRA, R. PLANA, J. GRAFFEUIL, H. BAUDRAND, J.L. CAZAUX, "Resonant Coupling Irises for the Design of New Planar Bandstop Filters," *32nd European Microwave Conference*, Milan, ITALY, vol. II, pp. 661-664, 23-27 September 2002.
- [C-29] B. DUCAROUGE, E. PERRET, F. FLOURENS, H. AUBERT, J.-W. TAO, X. CHAUFFLEUR, J.-P. FRADIN, D. DUBUC, K. GRENIER, P. PONS, R. PLANA, "Design of MEMS-Based Microwave and Millimeterwave Switches for High Power Applications", *International Semiconductor Conference*, Sinaia, Romania, pp. 61-64, October 2003.
- [C-30] A. TAKACS, D. LILLONGA, H. AUBERT, J.W. TAO, R. CRAMPAGNE, R. PLANA, P. PONS, J.CH. CAYROU, "Design of a Novel Broadband CPWG-to-WR Transition for Ka-band Satellite Communications", *International Semiconductor Conference*, Sinaia, Romania, pp. 69-72, October 2003.
- [C-31] J. KUCHENBECKER, L. BARY, X. LAFONTAN, F. FLOURENS, A. TAKACS, P. PONS, K. GRENIER, D. DUBUC, H. AUBERT, F. PRESSECQ, R. PLANA, "Microwave and Physical Behaviour of Micromachined Structures on Membrane for Space Applications", *International Semiconductor Conference*, Sinaia, Romania, pp. 105-108, October 2003.
- [C-32] P.PONS, D.DUBUC, F.FLOURENS, M.SAADAOU, S.MELLE, A.TAKACS, J.TAO, H.AUBERT, A.BOUKABACHE, T.PAILLOT, P.BLONDY, O.VENDIER, K.GRENIER, R.PLANA, "MEMS-based redundancy ring for low noise millimeter-wave front-end," *Photonics Europe*, Strasbourg, France, 26-30 April 2004.
- [C-33] E.PERRET, H.AUBERT, "A Multi-scale Technique for the Electromagnetic Modeling of Active Antennas", *IEEE AP-S International Symposium on Antennas Propagat. and USNC/URSI National Radio Science Meeting*, Monterey, California, USA, vol. 4, pp. 3923-3926, 20-25 June 2004.
- [C-34] D.VOYER, H.AUBERT, J.DAVID, "Radar Cross Section of discrete self-similar objects using a recursive electromagnetic analysis", *IEEE AP-S International Symposium and USNC/URSI National Radio Science Meeting*, Monterey, California, USA, vol. 4, pp. 4260-4263, 20-26 June 2004.
- [C-35] A. TAKACS, A. SERBANESCU, G. LEU, H. AUBERT, P. PONS, T. PARRA, R. PLANA, "On layout optimization of the microwave diplexor filters using genetic algorithms", *International Semiconductor Conference*, Sinaia, Romania, vol.1, pp.133-136, 4-6 October 2004.
- [C-36] P. PONS, D. DUBUC, F. FLOURENS, M. SAADAOU, S. MELLE, A. TAKACS, J. TAO, H. AUBERT, A. BOUKABACHE, T. PAILLOT, P. BLONDY, O. VENDIER, K. GRENIER, R. PLANA, "MEMS-based redundancy ring for low-noise millimeter-wave front-end," *Proceedings of SPIE, MEMS, MOEMS, and Micromachning*, vol. 5455, pp. 181-192, April 2004.
- [C-37] N. RAVEU, H. AUBERT, H. LEGAY, "Number of elements in Polyadic Cantor Arrays for Tx-band Satellite Applications", *IEEE AP-S International Symposium on Antennas Propagat. and USNC/URSI National Radio Science Meeting*, Washington, DC, USA, vol. 1B, pp. 782-785, 3-8 July 2005.
- [C-38] M. BEN ABDILLAH, O. PASCAL, H. AUBERT, "Distributed Constant Antennas for Compact Dual-Band Applications," *IEEE AP-S International Symposium on Antennas Propagat. and USNC/URSI National Radio Science Meeting*, Washington, DC, USA, vol. 1B, pp. 475-478, 3-8 July 2005.
- [C-39] N. RAVEU, H. AUBERT, H. LEGAY, "Cut-Off Number of Elements in Polyadic Cantor Arrays," *35th European Microwave Week*, Paris, France, vol. 3, pp. 239-242, 6-7 October 2005.
- [C-40] D. VOYER, J. DAVID, H. AUBERT, "Experiment to visualize equipotential lines in a real complex circuitry," *5th WSEAS International Conference on Power Systems and Electromagnetic Compatibility*, Corfu, Greece, 23-25 August 2005.
- [C-41] E. PERRET, N. RAVEU, H. AUBERT, H. LEGAY, "Scale Changing Technique for MEMS-controlled phase-shifters," *36th European Microwave Week*, Manchester, United Kingdom, pp.866-869, 10-15 September 2006.
- [C-42] J.-R. POIRIER, H. AUBERT, D.L. JAGGARD, "Wavelet analysis of the electromagnetic scattering from bandlimited fractal surfaces," *1st European Conference on Antennas and Propagation*, Nice, France, 6-10 November 2006.
- [C-43] H. LEGAY, G. CAILLE, E. GIRARD, P. PONS, H. AUBERT, E. PERRET, P. CALMON, J.P. POLIZZI, D. CADORET, R. GILLARD, "MEMS Controlled Linearly Polarised Reflectarray Elements," *12th International Symposium on Antenna Technology and Applied Electromagnetics*, Montréal, Canada, pp. 359-362, 16-19 July 2006.
- [C-44] A. TAKACS, D. NECULOIU, D. VASILACHE, A. MULLER, P. PONS, H.AUBERT, R.PLANA, "Tunable MEMS filters for millimeter wave applications," *International Semiconductor Conference*, Sinaia, Romania, vol. I, pp. 115-118, 27-30 September 2006.
- [C-45] D.PEYROU , F.PENNEC , H.ACHKAR , P.PONS , F.COCCHETTI , H.AUBERT , R.PLANA, "BCB based packaging for low actuation voltage RF MEMS devices," *Symposium W: Heterogeneous Integration of Materials for Passive Components and Smart Systems*. Materials Research Society Symposia Proceedings, Boston, USA, pp.131-142, 27-29 November 2006.
- [C-46] N. RAVEU, E. PERRET, H. AUBERT, H. LEGAY, "Design of MEMS-controlled phase-shifters using SCT," *Progress in Electromagnetics Research Symposium*, Beijing, China, pp. 2187-2189, 26-30 March 2007.
- [C-47] S. HEBIB, H. AUBERT, O. PASCAL, N. FONSECA, L. RIES, J. M. LOPEZ , "Pyramidal multi-band antennas for GPS/Galileo/MicroSat application," *IEEE AP-S International Symposium on Antennas Propagat.*, Honolulu (USA), pp. 2041-2044, 10-15 June 2007.
- [C-48] L. HANANE, S. HEBIB, H. AUBERT, N. FONSECA, "Compact Printed Quadrifilar Helix Antennas for Stratospheric Balloons Telemetry," *IEEE AP-S International Symposium on Antennas Propagat.*, Honolulu, USA, pp.1525-1528, 10-15 June 2007.

- [C-49] F. KHALIL, H. AUBERT, F. COCCEPPI, Y. DENNEULIN, B. MIEGEMOLLE, T. MONTEIL, "Electromagnetic Simulation of MEMS-Controlled Reflectarrays based on SCT in Grid Environment," *IEEE AP-S International Symposium on Antennas Propagat.*, Honolulu, USA, pp.49-52, 10-15 June 2007.
- [C-50] S. HEBIB, H. AUBERT, O. PASCAL, N. FONSECA, L. RIES, J. M. LOPEZ, "Pyramidal Circularly Polarized Antenna with RF-MEMS Switches for Frequency Flexibility," *8th International Symposium on RF MEMS and RF Microsystems*, Barcelona, Spain, pp. 59-61, 26-29 June 2007.
- [C-51] F. KHALIL, H. AUBERT, F. COCCEPPI, R. PLANA, T. VAHA-HEIKKILA, T. LISEC, "Distributed Parametric Simulation of Complex Electromagnetic Structures in Grid Computing Environment," *8th International Symposium on RF MEMS and RF Microsystems*, Barcelona, Spain, pp. 215-218, 26-29 June 2007.
- [C-52] A.TAKACS, D.NECULOIU, D.VASILACHE, A.MULLER, P.PONS, L.BARY, P. CALMON, R.PLANA, H.AUBERT, "New Topologies of Tunable Bandstop MEMS Filters for Millimeter Wave Applications," *37th European Microwave Conference*, München, Germany, pp.126-129, 8-12 October 2007.
- [C-53] N. RAVEU, G. PRIGENT, H. AUBERT, P. PONS, H. LEGAY, "Scale Changing Technique Design and Optimization Tool for Active Reflect-arrays Cell," *37th European Microwave Conference (EuMC'07)*, München, Germany, pp.736-739, 8-12 October 2007.
- [C-54] M. JATLAOUI, P. PONS, H. AUBERT, "Radio-Frequency pressure transducer," *37th European Microwave Conference*, München, Germany, pp.983-986, 8-12 October 2007.
- [C-55] F.COCCEPPI, D.PEYROU, M.AL AHMAD, V.PUYAL, P.PONS, D.DRAGOMIRESCU, H.AUBERT, R.PLANA, "RF MEMS: status and perspectives," *3rd International Conference on Micro-Nanoelectronics, Nanotechnology and MEMS*, Athens, Greece, November 2007.
- [C-56] F. KHALIL, B. MIEGEMOLLE, T. MONTEIL, H. AUBERT, F. COCCEPPI, R. PLANA, "Simulation of Micro Electro-Mechanical Systems (MEMS) on Grid," *8th International Meeting High Performance Computing for Computational Science*, Toulouse, France, pp. 614-627, 24-27 June 2008.
- [C-57] M. JATLAOUI, P. PONS, H. AUBERT, "Pressure Micro-sensor based on Radio-Frequency Transducer," *IEEE International Microwave Symposium*, Atlanta, Georgia, USA, pp. 1203-1206, 15-20 June 2008.
- [C-58] M. ROMIER, A. BARKA, H. AUBERT, J.P. MARTINAUD, M. SOIRON, "Iterative Approach for the Nonlinear Simulation of Active Antennas," *XXth Symposium Electromagnetic Phenomena in Non Linear Circuits*, Lille, France, 2-4 July 2008.
- [C-59] H. AUBERT, "Scale-Changing Technique for the Electromagnetic Modeling of Multi-scale Structures," *Progress in Electromagnetics Research Symposium*, Cambridge, USA, 2-6 July 2008.
- [C-60] N.J.G. FONSECA, S. HEBIB, H. AUBERT, "L-Band Compact Printed Quadrifilar Helix Antenna with 'Iso-Flux' Radiating Pattern for Stratospheric Balloons Telemetry," *IEEE AP-S International Symposium on Antennas Propagat.*, San Diego, USA, 5-12 July 2008.
- [C-61] H. AUBERT, "Monolithic Electromagnetic Modeling of Multi-scale Structures based on Scale-Changing Networks," *IEEE AP-S International Symposium on Antennas Propagat.*, San Diego, USA, 5-12 July 2008.
- [C-62] S. HEBIB, H. AUBERT, O. PASCAL, N. FONSECA, L. RIES, J.-M. E. LOPEZ, "Trap-Loaded Pyramidal Tri-Band Antenna for Satellite Applications," *IEEE AP-S International Symposium on Antennas Propagat.*, San Diego, USA, 5-12 July 2008.
- [C-63] A. ALI, F. COCCEPPI, H. AUBERT, N. FONSECA, "Novel Multi-Layer SIW Broadband Coupler for Nolen Matrix Design in Ku-Band," *IEEE AP-S International Symposium on Antennas Propagat.*, San Diego, USA, 5-12 July 2008.
- [C-64] A. RASHID, H. AUBERT, N. RAVEU, H.LEGAY, "Modeling of Passive Planar Structures using Scale-Changing Technique," *IEEE AP-S International Symposium on Antennas Propagat.*, San Diego, USA, 5-12 July 2008.
- [C-65] F. KHALIL, C. J. BARRIOS-HERNANDEZ, H. AUBERT, Y. DENNEULIN, F. COCCEPPI, R. PLANA, "Electromagnetic Simulations via Parallel Computing: an Application Using Scale Changing Technique for modeling of passive planar reflectarrays in Grid Environment," *IEEE AP-S International Symposium on Antennas Propagat.*, San Diego, USA, 5-12 July 2008.
- [C-66] J.-R. POIRIER, H. AUBERT, "Lacunarity of rough surfaces from the wavelet analysis of scattering data," *European Electromagnetics*, Lausanne, Switzerland, 21-25 July 2008.
- [C-67] A. ALI, H. AUBERT, "Analysis and design of multi-slab dielectric cover for patch antennas directivity enhancement," *8th International Conference on Applied Informatics and Communications*, Rhodes, Greece, 20-22 August 2008.
- [C-68] A. TAKACS, D. NECULOIU, D. VASILACHE, A. MULLER, P. PONS, L. BARY, P. CALMON, H.AUBERT, R.PLANA, "Tunable Bandstop and Bandpass MEMS Filters for Millimeter Wave Applications," *38th European Microwave Conference*, München, Germany, pp. 591-594, 27-31 October 2008.
- [C-69] A. ALI, F. COCCEPPI, N. J. G. FONSECA, H. AUBERT, "Novel Two-Layer 4x4 Broadband Butler Matrix in SIW Technology for Ku-Band Applications," *Asia Pacific Microwave Conference*, Hong Kong and Macao, China, 16-20 December 2008.
- [C-70] M. JATLAOUI, F. CHEBILA, P. PONS, H. AUBERT, "Pressure Sensing Approach Based on Electromagnetic Transduction Principle," *Asia Pacific Microwave Conference*, Hong Kong and Macao, China, 16-20 December 2008.

- [C-71] A. ALI, N. J. G. FONSECA, F. COCCETTI, H. AUBERT, "Novel Two-Layer 4x4 SIW Nolen Matrix of Multi-beam Antenna Application in Ku Band," *3rd European Conference on Antennas and Propagation*, Berlin, Germany, pp. 241-243, 23-27 March 2009.
- [C-72] S. HEBIB, H. AUBERT, O. PASCAL, N. FONSECA, L. RIES, J.-M. E. LOPEZ, "Reconfigurable pyramidal antenna loaded by a cut-off waveguide—application to ARNS/RNSS services," *3rd European Conference on Antennas and Propagation*, Berlin, Germany, pp. 1882-1885, 23-27 March 2009.
- [C-73] H. SALT, E. FOURN, R. GILLARD, H. LEGAY, H. AUBERT, "MEMS breakdown effects on the radiation of a MEMS-based reconfigurable reflectarray," *3rd European Conference on Antennas and Propagation*, Berlin, Germany, pp. 3738-3741, 23-27 March 2009.
- [C-74] R. SHARROCK, F. KHALIL, T. MONTEIL, H. AUBERT, F. COCCETTI, P. STOLF, L. BROTO, R. PLANA, "Deployment and management of large planar reflectarray antennas simulation on grid," *International Symposium on High Performance Distributed Computing*, Munich, Germany, 9-10 June 2009.
- [C-75] M.M. JATLAOUI, F. CHEBILA, I. GMATI, P. PONS, H. AUBERT, "New Electromagnetic Transduction Micro-sensor Concept For Passive Wireless Pressure Monitoring Application," *Transducers 2009, 15th International Conference on Solid-State Sensors, Actuators and Microsystems*, Denver, Colorado, USA, pp. 1742-1745, 21-25 June 2009.
- [C-77] A. RASHID, H. AUBERT, H.LEGAY, "Modelling of Finite and Non-Uniform Patch Arrays Using Scale-Changing Technique," *IEEE AP-S International Symposium on Antennas Propagat.*, Charleston, South Carolina, USA, 1-5 June 2009.
- [C-78] A. ALI, H. AUBERT, N. FONSECA, F. COCCETTI, "Novel Compact Waveguide-Based Composite Right/Left-Handed Phase Shifter with Arbitrary Phase Shift and Broad Bandwidth: Analysis and Design," *IEEE AP-S International Symposium on Antennas Propagat.*, Charleston, South Carolina, USA, 1-5 June 2009.
- [C-79] F. CHEBILA, M. JATLAOUI, P. PONS, H. AUBERT, "Reconfigurable Multi-band Scatterers for Micro-sensors Identification," *IEEE AP-S International Symposium on Antennas Propagat.*, Charleston, South Carolina, USA, 1-5 June 2009.
- [C-80] N. J. G. FONSECA, H. AUBERT, "Very Compact Quadrifilar Helix Antenna in VHF Band with Quasi Hemispherical Radiation Pattern," *IEEE AP-S International Symposium on Antennas Propagat.*, Charleston, South Carolina, USA, 1-5 June 2009.
- [C-81] N. J.G. FONSECA, C. MANGENOT, S. HEBIB, H. AUBERT, O. PASCAL, "Interleaved Multi-band Pyramidal Antennas Combining Radio Navigation and Telemetry Satellite Applications," *IEEE AP-S International Symposium on Antennas Propagat.*, Charleston, South Carolina, USA, 1-5 June 2009.
- [C-82] M. PIGEON, C. MORLAAS, H. AUBERT, B. SOUNY, "Highly Compact Composite Antenna," *IEEE AP-S International Symposium on Antennas Propagat.*, Charleston, South Carolina, USA, 1-5 June 2009.
- [C-83] M. ROMIER, A. BARKA, H. AUBERT, J.P MARTINAUD, M. SOIRON, "Iterative Approach for the Nonlinear Simulation of Active Antennas," *IEEE AP-S International Symposium on Antennas Propagat.*, Charleston, South Carolina, USA, 1-5 June 2009.
- [C-84] A. ALI, A. COUSTOU, H. AUBERT, "Wideband Passive repeaters: Design and Measurements," *IEEE AP-S International Symposium on Antennas Propagat.*, Charleston, South Carolina, USA, 1-5 June 2009.
- [C-85] F. KHALIL, A. RASHID, H. AUBERT, F. COCCETTI, R. PLANA, C. J. BARRIOS-HERNANDEZ, Y. DENNEULIN, "Application of scale changing technique-grid computing to the electromagnetic simulation of reflectarrays," *IEEE AP-S International Symposium on Antennas Propagat.*, Charleston, South Carolina, USA, 1-5 June 2009.
- [C-86] A. ALI, H. AUBERT, N. FONSECA, F. COCCETTI, "Novel Compact Three-layer Wideband Phase Shifter in SIW Technology," *Progress in Electromagnetics Research Symposium*, Moscow, Russia, 18-21 August 2009.
- [C-87] H. HALLIL, P. MÉNINI, H. AUBERT, "Novel Microwave Gas Sensor Using Dielectric Resonator with SnO₂ Sensitive Layer", *Euroensors*, Lausanne, Switzerland, 6–9 September 2009.
- [C-88] C.-J. BARRIOS-HERNANDEZ, F. KHALIL, Y. DENNEULIN, H. AUBERT, F. COCCETTI, R. PLANA, "Deployment of CEM Applications on Large Scale Architectures," *Latin American Conference on High Performance Computing*, Merida, Venezuela, 21-25 September 2009.
- [C-89] H. HALLIL, P.MÉNINI, H.AUBERT, "New microwave gas detector using dielectric resonator based on a Whispering-Gallery-Mode," *European Microwave Week*, Nuova Fiera di Roma, Rome, Italy, 28 September – 2 October 2009.
- [C-90] M. M. JATLAOUI, F. CHEBILA, P. PONS, H. AUBERT, "Wireless Interrogation Techniques for a Passive Pressure Micro-sensor using an EM Transducer," *European Microwave Week*, Nuova Fiera di Roma, Rome, Italy, 28 September – 2 October 2009.
- [C-91] H. HALLIL, P. MÉNINI, H. AUBERT, "Novel Millimeter-Wave Gas Sensor Using Dielectric Resonator with sensitive layer on TiO₂", *8th IEEE Conference on Sensors*, Christchurch, New Zealand, 25-28 October, 2009.
- [C-92] A. TAKACS, D. MEDHAT, H. AUBERT, J.C. PORTAL, "Electromagnetic analysis of the experimental set-up used to investigate the ratchet effect in two-dimensional electron system under microwave radiation," *International Semiconductor Conference*, Sinaia, Romania, 12-14 October 2009.

- [C-93] A.TAKACS, N. J.G. FONSECA, H. AUBERT, X. DOLLAT, "Miniaturization of Quadrifilar Helix Antenna for VHF Band Applications," *Loughborough Antennas & Propagation Conference*, Loughborough University, United Kingdom, pp. 597-600, 16-17 November 2009.
- [C-94] M.M.JATLAOUI, F.CHEBILA, P.PONS, H. AUBERT, "New Micro-sensors Identification Techniques Based on Reconfigurable Multi-band Scatterers," *Asia-Pacific Microwave Conference*, Singapore, 7-10 December 2009.
- [C-95] S. BOUAZIZ, A. ALI, H. AUBERT, "Low-profile Wideband Antenna with Unidirectional Inclined Radiation Pattern for C-band Airborne Applications," *Asia-Pacific Microwave Conference*, Singapore, 7-10 December 2009.
- [C-96] E. B. TCHIKAYA, A. RASHID, F. KHALIL, H. AUBERT, H. LEGAY, N. FONSECA, "Multi-scale Approach for the Electromagnetic Modeling of Metallic FSS Grids of Finite Thickness with Non-uniform Cells," *Asia-Pacific Microwave Conference*, Singapore, 7-10 December 2009.
- [C-97] D. MEDHAT, A. TAKACS, H. AUBERT, J.C. PORTAL, "Comparative Analysis of Different Techniques for Controlling Ratchet Effect in a Periodic Array of Asymmetric Antidots," *Asia-Pacific Microwave Conference*, Singapore, pp. 1711 – 1714, 7-10 December 2009.
- [C-98] N.J.G. FONSECA, A.TAKACS, H.AUBERT, X. DOLLAT, "Design and Experimental Validation of a Compact Quadrifilar Helix Antenna in VHF Band," *Asia-Pacific Microwave Conference*, Singapore, 7-10 December 2009.
- [C-99] E.B. TCHIKAYA, A. RASHID, H. AUBERT, H. LEGAY, N. FONSECA, "Electromagnetic Modeling of Finite Metallic Grid FSS Structures Using Scale Changing Technique," *Progress in Electromagnetics Research Symposium*, Xian, China, 22-26 March, 2010.
- [C-100] S. BOUAZIZ, A. ALI, H. AUBERT, "Planar Wideband Microstrip Antenna with Inclined Radiation Pattern for C-Band Airborne Applications," *European Conference on Antennas and Propagation*, Barcelona, Spain, 12-16 April 2010.
- [C-101] B. PALACIN, N. FONSECA, S. HEBIB, H.AUBERT, "Impact of the Ground Plane Topology on the Performances of a Pyramidal Multiband Quadri-Element Antenna," *European Conference on Antennas and Propagation*, Barcelona, Spain, 12-16 April 2010.
- [C-102] F. KHALIL, R. SCHARROCK, H. AUBERT, T. MONTEIL, F. COCCETTI, R. PLANA, Y. DENNEULIN, "Distributed Electromagnetic Analysis of Reflectarrays," *26th International Review of Progress in Applied Computational Electromagnetics*, Tampere, Finland, 25-29th April 2010.
- [C-103] T. T. THAI, M. JATLAOUI, H. AUBERT, P. PONS, G. R. DEJEAN, M. M. TENTZERIS, R. PLANA, "A Novel Passive Wireless Ultrasensitive Temperature RF Transducer for Remote Sensing," *IEEE International Microwave Symposium*, Anaheim, California, USA, pp. 473-476, 23-28 May 2010.
- [C-104] A. RASHID, H. AUBERT, "Modelling of Electromagnetic Coupling in Finite Arrays Using Scale-changing Technique," *Progress in Electromagnetics Research Symposium*, Cambridge, USA, 5-8 July 2010.
- [C-105] F. CHEBILA, M. M. JATLAOUI, P. PONS, H. AUBERT, "Pressure Measurement from the RADAR Interrogation of Passive Sensors," *IEEE Antennas and Propagation Symposium*, Toronto, Ontario, Canada, 11-17 July 2010.
- [C-106] E. B. TCHIKAYA, H. AUBERT, N. FONSECA, "Modelling of a Finite-size thick metallic waveguide FSS under oblique plane wave incidence using Scale Changing Technique (SCT)," *IEEE Antennas and Propagation Symposium*, Toronto, Ontario, Canada, 11-17 July 2010.
- [C-107] T.-T. THAI, F. CHEBILA, M.M. JATLAOUI, P. PONS, H. AUBERT, G.R. DEJEAN, M. M. TENTZERIS, R. PLANA, "A Novel Passive Ultrasensitive RF Temperature Transducer for Remote Sensing and Identification utilizing Radar Cross Sections Variability," *IEEE Antennas and Propagation Symposium*, Toronto, Ontario, Canada, 11-17 July 2010.
- [C-108] M.M. JATLAOUI, S. CHARLOT, D. DRAGOMIRESCU, P.PONS, H. AUBERT, "Heterogeneous integration of communicating nano-objects on flexible substrate," *International Conference Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies*, Constanta, Romania, 26-29 August 2010.
- [C-109] A. TAKACS, D. MEDHAT, H. AUBERT, J.-C. PORTAL, "A Method for Estimating the Electromagnetic Power Delivered by the Front-End Module used to Investigate the Ratchet Effect in Two-Dimensional Electron Gas System under Microwave Radiation," *European Microwave Week*, Paris, France, pp. 1560-1563, 26 September – 1 October 2010.
- [C-110] M. M. JATLAOUI, F. CHEBILA, S. BOUAZIZ, P. PONS, H. AUBERT, "Original Identification technique of passive EM Sensors using Loaded Transmission Delay Lines," *European Microwave Week*, Paris, France, 26 September – 1 October 2010.
- [C-111] T.T. THAI, F. CHEBILA, M.M. JATLAOUI M. MEHDI, P. PONS, H. AUBERT, G. R. DEJEAN, M. M. TENTZERIS, R. PLANA, "Design and Development of a Millimetre-wave Novel Passive Ultrasensitive Temperature Transducer for Remote Sensing and Identification," *European Microwave Week*, Paris, France, pp.45-48, 26 September – 1 October 2010.
- [C-112] M.-M. JATLAOUI, F. CHEBILA, T. IDDA, P. PONS, H. AUBERT, "Phenomenological theory and experimental characterizations of passive wireless EM pressure micro-sensor prototype," *9th Annual IEEE Conference on Sensors*, Waikaloa, Hawaii, USA, 1-4 November 2010.
- [C-113] H. HALLIL, F. CHEBILA, P. MENINI, P. PONS, H. AUBERT, "Feasibility of Wireless Gas Detection with an FMCW RADAR Interrogation of Passive RF Gas Sensor," *9th Annual IEEE Conference on Sensors*, Waikaloa, Hawaii, USA, 1-4 November 2010.

- [C-114] F. TAHIR, A. RASHID, E.B. TCHIKAYA, H. AUBERT, "Full-Wave Analysis of Finite-Size FSSs using Scale Changing Technique under Feed-Horn Excitation," *Loughborough Antennas & Propagation Conference*, Loughborough, United Kingdom, pp.445-448, 8-9 November 2010.
- [C-115] E. B. TCHIKAYA, A. RASHID, F.KHALIL, H. AUBERT, M. ROMIER, N. J.G. FONSECA, "Full Wave Analysis of Large Non-Uniform Metallic Grid FSS Under Oblique Incidence Using Scale Changing Technique," *Asia-Pacific Microwave Conference*, Yokohama, Japan, 7-10 December 2010.
- [C-116] E. B. TCHIKAYA, F. A. TAHIR, H. AUBERT, "Full Wave Analysis of Finite Uniform Metallic Grid FSS Under Oblique Incidence Using Scale Changing Technique," *29th Progress in Electromagnetics Research Symposium*, Marrakech, Morocco, 20-23 March 2011.
- [C-117] A.ALI M. JATLAOUI, S. HEBIB, H.AUBERT, D.DRAGOMIRESCU, "60 GHz Rectangular Patch Antennas on Flexible Substrate: Design and Experiment," *29th Progress in Electromagnetics Research Symposium*, Marrakech, Morocco, 20-23 March 2011.
- [C-118] S. HEBIB, S. BOUAZIZ, H. AUBERT, F. LERASLE, "Circularly Polarized RFID Reader Antennas for Robotic Application," *29th Progress in Electromagnetics Research Symposium*, Marrakech, Morocco, 20-23 March 2011.
- [C-119] D.MEDHAT, A.TAKACS, H.AUBERT, J.-C.PORTAL, "Investigation of the Metallic Cavity Influence on the Electromagnetic Behavior of the Setup Used in Studying the Ratchet Effect," *29th Progress in Electromagnetics Research Symposium*, Marrakech, Morocco, 20-23 March 2011.
- [C-120] A.TAKACS, A. COUSTOU, H.AUBERT, M. TENTZERIS, "Electromagnetic Analysis of the Near Field Coupling between a RFID Tag and Harness for Aeronautic Applications," *29th Progress in Electromagnetics Research Symposium*, Marrakech, Morocco, 20-23 March 2011.
- [C-121] F.A.TAHIR, H. AUBERT, "Scattering Analysis of Periodic Microstrip Reflectarrays using Scale Changing Technique," *Conference on Applied Computational Electromagnetics*, Williamsburg, Virginia, 27-31 March 2011.
- [C-122] F.A.TAHIR, H. AUBERT, "Efficient Electromagnetic Simulation of Periodic Microstrip Reflectarrays using Scale-Changing Technique," *European Conference on Antennas and Propagation*, Roma, Italy, pp. 240-243, 11-15 April 2011.
- [C-123] T.-T. THAI, H. AUBERT, P. PONS, M.-M. TENTZERIS, R.PLANA, "Design of a Highly Sensitive Wireless and Passive RF Strain Transducer," *IEEE International Microwave Symposium*, Baltimore, Maryland, USA, 5-10 June 2011.
- [C-124] M. PIGEON, C. MORLAAS, H. AUBERT, "A dual-band High Impedance Surface mounted with a spiral antenna for GNSS applications," *International Conference on Electromagnetics in Advanced Applications and IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications*, Torino, Italy, 12-17 September 2011.
- [C-125] A. TRAILLE, S. BOUAZIZ, S. PINON, P. PONS, H. AUBERT, A. BOUKABACHE, M.M. TENTZERIS "A Wireless Passive RCS-based Temperature Sensor using Liquid Metal and Microfluidics Technologies", *European Microwave Conference*, Manchester, pp.45-48, 9-14 October 2011.
- [C-126] S.HEBIB, H.AUBERT, "Tri-band antenna feeding circuit for circular polarization diversity," *European Microwave Conference*, Manchester, 9-14 October 2011.
- [C-127] D. MEDHAT, A. TAKACS, H. AUBERT, J.-C. PORTAL "Optimum Position of the Two-Dimensional Electron Gas Sample in the Cryogenic Metallic Cavity System used in Studying Ratchet Effect," *European Microwave Conference*, Manchester, 9-14 October 2011.
- [C-128] A.TRAILLE, S.BOUAZIZ, H.AUBERT, P.PONS AND M.M.TENTZERIS, "A Novel Wireless Passive Temperature Sensor Utilizing Microfluidic Principles in Millimeter-Wave Frequencies," *IEEE sensors Conference*, Limerick, Ireland, pp 524 – 525, 28-31 October 2011.
- [C-129] T.-T. THAI, H.AUBERT, P. PONS, G.-R. DEJEAN, M.-M. TENTZERIS, R. PLANA, "A Newly Developed Radio Frequency Wireless Passive Highly Sensitive Strain Transducer," *IEEE sensors Conference*, Limerick, Ireland, pp. 211-214, 28-31 October 2011.
- [C-130] S. BOUAZIZ, P. PONS, H. AUBERT, A. TRAILLE, M.-M. TENTZERIS, "Reconfigurable liquid antenna for wireless temperature sensing," *International Conference on Microwave and High Frequency Heating*, Toulouse, France, 5-8 September 2011.
- [C-131] M.ALEXANDRU, T.MONTEIL, P.LORENZ, F. COCCETTI, H.AUBERT, "Efficient Large Electromagnetic Problem Solving by Hybrid TLM and Modal Approach on Grid Computing," *International Microwave Symposium*, Montréal, CANADA, 17-22 June 2012.
- [C-132] A.TAKACS, T.IDDA, H.AUBERT, H.DIEZ, "Miniaturization of Quadrifilar Helix Antennas for Space Applications," *International Symposium of Antenna Technology and applied Electromagnetics*, Toulouse, France, 25-28 June 2012.
- [C-133] O. RIPOCHE, H. AUBERT, A.BELLION, P. POTIER, P. POULIGUEN, "Spiral Antenna Miniaturization in Very High Frequency Band," *International Symposium of Antenna Technology and applied Electromagnetics*, Toulouse, France, 25-28 June 2012.
- [C-134] C. LECLERC, H. AUBERT, M. ROMIER, A. ANNABI, "Multiple Feed per Beam Antenna Based on a 3-D Directional Coupler Topology," *International Symposium of Antenna Technology and applied Electromagnetics*, Toulouse, France, 25-28 June 2012.
- [C-135] M.ALEXANDRU, T.MONTEIL, P.LORENZ, F.COCCETTI, H.AUBERT, "Large Electromagnetic Problem on Large Scale Parallel Computing Systems," *International Conference on High Performance Computing & Simulation*, Madrid,

- Spain, 2-6 July 2012. ISBN: 978-1-4673-2359-8. Paper nominated for the *International Conference on High Performance Computing & Simulation* 2012 Outstanding Paper Award.
- [C-136] A.TAKACS, T.IDDA, H.AUBERT, H.DIEZ, "Miniaturisation Technique for Quadrifilar Helix Antenna," *IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting in Chicago*, Illinois, USA, 8-13 July 2012.
- [C-137] S.BOUAZIZ, F.CHEBILA, A.TRAILLE, P.PONS, H.AUBERT, M.TENTZERIS, "A new millimeter-wave micro-fluidic Temperature Sensor for Wireless Passive Radar Interrogation," *IEEE Sensors*, Taipei, Taiwan, 28-31 October 2012.
- [C-138] A.TAKACS, A. BUNEA, A. ZAIR, D. NECULOIU, H. AUBERT, "Diode Modeling for Millimeter Wave Applications based on Co-Simulation Technique," *IEEE International Semiconductor Conference*, Sinaia, Romania, pp. 201-204, October 2012.
- [C-139] A. TAKACS, T. IDDA, H. AUBERT, H. DIEZ, "Miniaturization Technique for Quadrifilar Helix Antenna," *European Microwave Conference*, Amsterdam, Netherlands, 28 October - 2 November 2012.
- [C-140] M. ALEXANDRU, T. MONTEIL, P. LORENZ, F. COCETTI, H. AUBERT, "Electromagnetic Modeling of Complex Structures by TLM/Modal Hybrid Approach with Efficient Parallel Computing," *European Microwave Conference*, Amsterdam, Netherlands, 28 October - 2 November 2012.
- [C-141] H.AUBERT, F.CHEBILA, M.JATLAOUI, T.THAI, H.HALLIL, A.TRAILLE, S.BOUAZIZ, A.RIFAÏ, P.PONS, P.MENINI, M.TENTZERIS, "Wireless Sensing and Identification of Passive Electromagnetic Sensors based on Millimetre-wave FMCW RADAR," *IEEE RFID Technology and Applications*, Nice, France, pp. 398 – 403, 5-7 November 2012.
- [C-142] A. TAKACS, H. AUBERT, M. BAFLEUR, J.M. DILHAC, F. COURTADE, S. FREDON, L.DESPOISSE, C.VANHECKE, G. CLUZET, "Energy harvesting for powering wireless sensor networks on-board geostationary broadcasting satellites," *IEEE iThings*, Besancon, France, 20-23 November 2012.
- [C-143] J.LOMINE, C.MORLAAS, H. AUBERT, "Method for vector sensor design based on a spherical mode approach for 3D DoA estimation," *European Conference on Antennas and Propagation*, Gothenburg, Sweden, 8-12 April 2013.
- [C-144] A.TAKACS, H.AUBERT, L.DESPOISSE, S.FREDON, "Design and implementation of a rectenna for satellite application," *IEEE Wireless Power Transfer Conference*, Perugia, Italy, 15-16 May 2013.
- [C-145] A.TAKACS, H.AUBERT, L.DESPOISSE, S.FREDON, "K-band energy harvesting for satellite application," *International Microwave Symposium*, Seattle, WA, USA, 2-7 June 2013.
- [C-146] S. KIM, B.COOK, J. COOPER, A.TRAILLE, A. GEORGIADIS, H.AUBERT, M.M. TENTZERIS, "A Novel Dual-Band Retrodirective Reflector Array on Paper Utilizing Substrate Integrated Waveguide (SIW) and Inkjet Printing Technologies for Chipless RFID Tag and Sensor Applications," *International Microwave Symposium*, Seattle, WA, USA, pp. 2301-2302, 2-7 June 2013.
- [C-147] A. RIFAI, E. DEBOURG, S. BOUAZIZ, A. TRAILLE, P. PONS, H. AUBERT, M. TENTZERIS, "Wireless chipless passive microfluidic temperature sensor," *International Conference on Solid-State Sensors, Actuators and Microsystems, Transducers & Eurosensors XXVII*, pp. 1024-1027, 16-20 June 2013.
- [C-148] S.KIM, M. M. TENTZERIS, A.TRAILLE, H.AUBERT, A.GEORGIADIS, "A Dual-Band Retrodirective Reflector Array on Paper Utilizing Substrate Integrated Waveguide (SIW) and Inkjet Printing Technologies for Chipless RFID Tag and Sensor Applications," *IEEE AP-S International Symposium on Antennas Propagat.*, Orlando, Florida, USA, pp. 2301 - 2302, 7-13 July 2013.
- [C-149] G.HERMAND, J.BERTRAND, F.CHEBILA, A.RIFAI, F.KHALIL, H.AUBERT, "Wireless interrogation of passive sensors in confined environment," *2nd Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures*, Istanbul, Turkey, 9-11 September 2013. Mirko Ros silver medal award for outstanding technical contribution in the field of "monitoring and assessment".
- [C-150] M.M. TENTZERIS, S. KIM, A. TRAILLE, H. AUBERT, K. YOSHIHIRO, A. GEORGIADIS, A. COLLADO, "Inkjet-printed RFID-enabled sensors on paper for IoT and "Smart Skin" applications," *21st International Conference on Applied Electromagnetics and Communications*, Dubrovnik, Croatia, 14-16 October 2013.
- [C-151] C. RUIZ, M. ALENXANDRU, O. RICHARD, T. MONTEIL, H. AUBERT, "Platform calibration for load balancing of large simulations: TLM case," *IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing*, Chicago, Illinois, USA, pp. 465 – 472, 26-29 May 2014.
- [C-152] S. KIM, H. AUBERT, M. TENTZERIS, "An Inkjet-printed Flexible Broadband Coupler in Substrate Integrated Waveguide (SIW) Technology for Sensing, RFID and Communication Applications," *IEEE International Microwave Symposium*, Tampa Bay, Florida, USA, 1-6 June 2014.
- [C-153] A.TRAILLE, S.KIM, A.COUSTOU, H.AUBERT, M.M.TENTZERIS, "A Conformal/Rollable Monolithic Miniaturized Ultra-Portable Ground Penetrating Radar Using Additive and Inkjet Printing," *IEEE International Microwave Symposium*, Tampa Bay, Florida, USA, 1-6 June 2014.
- [C-154] A.TAKACS, H.AUBERT, S.CHARLOT, S.FREDON, L.DESPOISSE, "Compact Rectenna for Space Application," *IEEE International Microwave Symposium*, Tampa Bay, Florida, USA, 1-6 June 2014.

- [C-155] M.TENTZERIS, S. KIM, R. VYAS, A. TRAILLE, P. PONS, H. AUBERT, "Inkjet-printed "Zero-Power" Wireless Sensor and Power Management Nodes for IoT and "Smart Skin" Applications," *International Conference on Microwaves, Radar and Wireless Communications*, June 16-18 2014, Gdansk, Poland.
- [C-156] S. KIM, H. AUBERT, M. TENTZERIS, "An Inkjet-printed Flexible Broadband Multilayer SIW Coupler for Antenna Array Systems," *IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Memphis, Tennessee, USA, pp.324-325, 6-12 July 2014.
- [C-157] A. TRAILLE, S. KIM, A. COUSTOU, H. AUBERT, M. TENTZERIS, "Technology for Fully Printable and Rollable Ground Penetrating Radar (GPR) Systems," *IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Memphis, Tennessee, USA, 6-12 July 2014.
- [C-158] J. VALLEAU, H. AUBERT, O. RIPOCHE, A. BELLION, "Pre-Fractal Resonant Rings for Compact Spiral Antennas," *International Symposium on Antenna Technology and Applied Electromagnetics*, Victoria, BC, Canada, 13-17 July 2014.
- [C-159] A. TRAILLE, A. GEORGIADIS, A. COLLADO, Y. KAWAHARA, H. AUBERT, M. M. TENTZERIS, "Inkjet-printed "Zero-Power" Wireless Sensor and Power Management Nodes for IoT and "Smart Skin" Applications," *XXXIth URSI General Assembly and Scientific Symposium (URSI GASS)*, Beijing, China, 16-23 August 2014
- [C-160] A. TRAILLE, A. COUSTOU, H. AUBERT, S. KIM, J. KIMIONIS, M.-M. TENTZERIS, A. GEORGIADIS, A. COLLADO, Novel Inkjet Printed Modules for Sensing, Radar and Energy Harvesting Applications," *European Microwave Conference*, Roma, Italy, 5-10 October 2014.
- [C-161] A. TAKACS, H. AUBERT, A. LUCA, S. CHARLOT, S. FREDON, L. DESPOISSE, "Rectenna Design for K Band Application," *European Microwave Conference*, Roma, Italy, 5-10 October 2014.
- [C-162] J. VALLEAU, H. AUBERT, A. BELLION, P. POULIGUEN, P. POTIER, "Resonant Metallic Rings with Irregular Contours for Spiral Antennas Miniaturization," *International Conference on Antenna Measurements & Applications*, Antibes Juan-Les-Pains, France, November 2014.
- [C-163] E. DEBOURG, I. AUGUSTYNIK, A. RIFAI, M. MATUSIAK, M. OLSZACKI, P. KNAPKIEWICZ, J. DZIUBAN, H. AUBERT, P. PONS, "Wireless passive high-doses radiation sensor," *IEEE Sensors*, Valencia, Spain, 3-5 Nov. 2014.
- [C-164] E. DEBOURG, I. AUGUSTYNIK, A. RIFAI, M. MATUSIAK, M. OLSZACKI, P. KNAPKIEWICZ, J. DZIUBAN, H. AUBERT, P. PONS, "Wireless passive high-doses radiation sensor," *IEEE Sensors*, Valencia, Spain 3-5 Nov. 2014.
- [C-165] E. DEBOURG, H. AUBERT, P. PONS, I. AUGUSTYNIK, P. KNAPKIEWICZ, J. DZIUBAN, M. MATUSIAK, M. OLSZACKI, "Wireless and chipless passive radiation sensors for high dose monitoring," *The 4th international conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications*, Lisboa, Portugal, 20-24 April 2015.
- [C-166] A. TAKACS, H. AUBERT, S. FREDON, L. DESPOISSE, "Design and Characterization of Effective Antennas for K-band Rectennas," *European Conference on Antennas and Propagation*, Lisbon, Portugal, 12-17 April 2015.
- [C-167] D. HENRY, P. PONS, H. AUBERT, "3D Scanning Radar for the Remote Reading of Passive Electromagnetic Sensors," *IEEE International Microwave Symposium*, Phoenix, USA, 17-22 May 2015.
- [C-168] A. TAKACS, H. AUBERT, S. CHARLOT, "Ultra-Compact Ku-band Rectenna," *IEEE International Microwave Symposium*, Phoenix, USA, 17-22 May 2015.
- [C-169] E. DEBOURG, A. RIFAI, H. AUBERT, P. PONS, I. AUGUSTYNIK, P. KNAPKIEWICZ, J. DZIUBAN, M. OLSZACKI, "High Doses Wireless Radiation Sensor using Electromagnetic Transducers Radar Interrogation," *European Microwave Conference*, Paris, France, 7-10 September 2015.
- [C-170] D. HENRY, P. PONS, H. AUBERT, "3D Microwave Imaging System for the Remote Detection and Reading of Passive Sensors," *European Microwave Conference*, Paris, France, 7-10 September 2015.
- [C-171] A. OKBA, S. CHARLOT, P.-F. CALMON, A. TAKACS, H. AUBERT, "Multiband Rectenna for microwave applications," *IEEE Wireless Power Transfer Conference*, Aveiro, Portugal, 5-6 May 2016.
- [C-172] D. HENRY, H. AUBERT, P. PONS, "3D Scanning and Sensing Technique for the Detection and Remote Reading of a Passive Temperature Sensor," *IEEE International Microwave Symposium*, San Francisco, California, USA, 22-27 May 2016.
- [C-173] J. FOURMANN, H. AUBERT, P. PONS, J. LUC, A. LEFRANÇOIS, M. LAVAYSSIÈRE, "Incident Pressure Measurement in Air Blast Using Wireless Sensors," *IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Fajardo, Puerto Rico, 26 June -1 July 2016.
- [C-174] D. HENRY, H. AUBERT, P. PONS, "Wireless Passive Sensors Interrogation Technique Based on a Three-Dimensional Analysis," *European Microwave Conference*, London, UK, 3-7 October 2016.
- [C-175] J. FOURMANN, A. COUSTOU, H. AUBERT, P. PONS, J. LUC, A. LEFRANÇOIS, M. LAVAYSSIÈRE, A. OSMONT, "Wireless Sensors for the Incident Pressure Measurement in Air Blast," *European Microwave Conference*, London, UK, 3-7 October 2016.
- [C-176] A. OKBA, S. CHARLOT, P.-F. CALMON, A. TAKACS, H. AUBERT, "Cross Dipoles Rectenna for Microwave Applications," *European Microwave Conference*, London, UK, 3-7 October 2016.

- [C-177] J. FOURMANN, A. COUSTOU, H. AUBERT, P. PONS, J. LUC, A. LEFRANÇOIS, M. LAVAYSSIÈRE, A. OSMONT, “Wireless Pressure Measurement in Air Blast using PVDF sensor,” *IEEE Sensors*, Orlando, Florida, USA, 30 October – 2 November 2016.
- [C-178] E. DEBOURG, J. PHILIPPE, H. AUBERT, P. PONS, I. AUGUSTYNIK, P. KNAPKIEWICZ, J. DZIUBAN, M. MATUSIAK, M. OLSZACKI, “Wireless Hydrogen Pressure Dosimeter for Nuclear High Dose Monitoring,” *IEEE Sensors*, Orlando, Florida, USA, 30 October – 2 November 2016.
- [C-179] D. HENRY, J. HESTER, H. AUBERT, M. TENTZERIS, P. PONS, “Long Range Wireless Interrogation of Passive Humidity Sensors using Van-Atta Cross-Polarization Effect and 3D Beam Scanning Analysis,” *IEEE International Microwave Symposium*, Honolulu, Hawaii, USA, 4-9 June 2017.
- [C-180] J. DUPLOUY, C. MORLAAS, H. AUBERT, P. POTIER, P. POULIGUEN, C. DJOMA, “Grounded Colocated Antennas for Wideband Vector Sensor Applications,” *IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, San Diego, California, USA, July 9-14 2017.
- [C-181] J. PHILIPPE, C. ARENAS, D. HENRY, A. COUSTOU, A. RUMEAU, H. AUBERT, P. PONS, “Passive and chipless packaged sensor for the wireless pressure monitoring in harsh environment,” *Euroensors 2017*, Paris, France, 3-6 September 2017.
- [C-182] C. ARENAS, J. PHILIPPE, D. HENRY, A. RUMEAU, H. AUBERT, P. PONS, “Wireless and Passive Nuclear Radiation Sensors,” *European Microwave Conference*, Nuremberg, Germany, 9-13 October 2017.
- [C-183] A. OKBA, A. TAKACS, H. AUBERT, A. BELLION, D. GRENANA, “A Wideband and Compact Circularly-Polarized Rectenna for Low Power Application,” *Mediterranean Microwave Symposium*, Marseille, France, 28-30 November 2017.
- [C-184] V. ENGELHARDT, C. JOUVAUD, F. SARRAZIN, C. DELAVEAUD, H. AUBERT, “Maximization of Measurement Sensitivity and Reading Range of Passive RF Sensors from Complex Impedance Optimization,” *IEEE Sensors Conference*, Glasgow, Scotland UK, 29 October - 1 November 2017.
- [C-185] A. OKBA, A. TAKACS, H. AUBERT, “900 MHz Miniaturized Rectenna,” *IEEE MTT-S Wireless Power Conference 2018*, Montreal, Quebec, Canada, 3-7 June 2018.
- [C-186] A. TAKACS, A. OKBA, H. AUBERT, “Compact C-band Rectenna for Satellite Applications,” *IEEE MTT-S Wireless Power Conference 2018*, Montreal, Quebec, Canada, 3-7 June 2018.
- [C-187] J. PHILIPPE, D. HENRY, M. V. DE PAOLIS, A. RUMEAU, A. COUSTOU, P. PONS, H. AUBERT, “Wireless Remote Monitoring of Packaged Passive Sensor for *In-situ* Pressure Measurement in Highly Reflective Environments,” *IEEE International Microwave Symposium*, Philadelphia, Pennsylvania, USA, 10-15 June 2018.
- [C-188] J. DUPLOUY, C. MORLAAS, H. AUBERT, P. POTIER, P. POULIGUEN, C. DJOMA, “3D Direction-of-Arrival Estimation using a Wideband Vector Antenna,” *IEEE Antennas and Propagation Symposium 2018*, Boston, MA, USA, 8-13 July 2018.
- [C-189] A. OKBA, A. TAKACS, H. AUBERT, “Compact Flat Dipole Rectenna for Energy Harvesting or Wireless Power Transmission Applications,” *IEEE Antennas and Propagation Symposium 2018*, Boston, MA, USA, 8-13 July 2018.
- [C-190] B. ROUGIER, H. AUBERT, A. LEFRANÇOIS, “Electromagnetic Wave Reflection from Shocked Dielectric Materials,” *IEEE Antennas and Propagation Symposium 2018*, Boston, MA, USA, 8-13 July 2018.
- [C-191] B. ROUGIER, A. LEFRANÇOIS, H. AUBERT, E. BOUTON, J. LUC, A. OSMONT, Y. BARBARIN, “Simultaneous Shock and Particle Velocities Measurement using a Single Microwave Interferometer on Pressed TATB Composition T2 submitted to Plate Impact,” *16th International Symposium on Detonation*, Cambridge, Maryland, USA, 15-20 July 2018.
- [C-192] D. KUMAR, J. PHILIPPE, S. CHARLOT, S. ASSIÉ, A. FERRAND, H. AUBERT, P. PONS, “Polyethylene Outgassing Study for MEMS Nuclear Radiation Sensor,” *Euroensors 2018 Conference*, Graz, Austria, Proceedings 2018, 2, 718, 9–12 September 2018.
- [C-193] J. VEYRUNES, J. RIONDET, A. FERRAND, M. LAVAYSSIÈRE, A. LEFRANÇOIS, J. LUC, H. AUBERT, P. PONS, “Dynamic Simulation of Miniature Silicon Membrane during Air Blast for Pressure Measurement,” *Euroensors 2018 Conference*, Graz, Austria, Proceedings 2018, 2, 727, 9–12 September 2018.
- [C-194] A. TAKACS, A. OKBA, H. AUBERT, “Compact Planar Integrated Rectenna for Batteryless IoT Applications,” *European Microwave Week 2018*, Madrid, Spain, 23-28 September 2018.
- [C-195] B. ROUGIER, H. AUBERT, A. LEFRANÇOIS, “Measurement of Shock Wave and Particle Velocities in Shocked Dielectric Material from Millimeter-Wave Remote Sensing,” *European Microwave Week 2018*, Madrid, Spain, 23-28 September 2018.
- [CI-196] M. V. DE PAOLIS, J. PHILIPPE, A. RUMEAU, A. COUSTOU, S. CHARLOT, H. AUBERT, P. PONS, “Aperture-Coupled Microstrip Resonator for Millimeter-wave Passive Pressure Sensors,” *Transducers & Euroensors XXXIII*, Berlin, Germany, 23-27 June 2019.
- [CI-197] J. DUPLOUY, C. MORLAAS, H. AUBERT, P. POTIER, P. POULIGUEN, “Wideband Vector Antenna with Additional Radiation Pattern Diversity for 3-D Direction Finding,” *IEEE Antennas and Propagation Symposium 2019*, Atlanta, GA, USA, 7-12 July 2019.
- [CI-198] A. SIDIBE, A. TAKACS, A. OKBA, H. AUBERT, “Design and Characterization of a Compact Rectenna for Structural Health Monitoring Applications,” *IEEE Antennas and Propagation Symposium 2019*, Atlanta, GA, USA, 7-12 July 2019.
- [CI-199] T. MARCHAL, J. PHILIPPE, D. HENRY, M. V. DE PAOLIS, A. COUSTOU, P. PONS, H. AUBERT, “Dual-Polarized Through-Wall Repeater for the Wireless Reading of Millimeter-wave Passive Sensors,” *IEEE Antennas and Propagation Symposium 2019*, Atlanta, GA, USA, 7-12 July 2019.

- [CI-200] M.V. DE PAOLIS, J. PHILIPPE, A. RUMEAU, A. COUSTOU, S. CHARLOT, H. AUBERT, P. PONS, "Impact of Anodic Bonding on Transmission Loss in Millimetre-wave Pressure Transducers," *European Symposium on Reliability of Electron Devices, Failure Physics and Analysis (ESREF)*, Toulouse, France, 23–26 September 2019.
- [CI-201] D. HENRY, H. AUBERT, "Isolines in 3D Radar Images for Remote Sensing Applications," *European Microwave Week*, Paris, France, 29 September – 4 October 2019.
- [CI-202] T. MARCHAL, J. PHILIPPE, D. HENRY, M. V. DE PAOLIS, A. COUSTOU, P. PONS, H. AUBERT, "Millimetre-Wave Interrogation of Passive Sensors Embedded Inside Closed Reverberant Environments from Dual-Polarized Passive Repeaters," *European Microwave Week*, Paris, France, 29 September – 4 October 2019.
- [CI-203] D. HENRY, T. MARCHAL, J. PHILIPPE, P. PONS, H. AUBERT, "Long-range Zero-power Multi-sensing in Industrial Environment using Polarization Diversity and 3D Radar Imagery," *IEEE International Microwave Symposium*, Los Angeles, California, USA, 21-26 June 2020
- [CI-204] A. DORE, D. HENRY, H. AUBERT, M. LIHOREAU, "3D Trajectories of Multiple Untagged Flying Insects from Millimetre-wave Beamscanning Radar," *IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting*, Montréal, Québec, Canada, 5-10 July 2020.
- [CI-205] C. MORLAAS, J. DUPLOUY, H. AUBERT, "4-Port Vector Antenna for MIMO Applications," *IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting*, Montréal, Québec, Canada, 5-10 July 2020.
- [CI-206] D. HENRY, H. AUBERT, T. VÉRONÈSE, "Estimation of the Foliage Growth in Precision Viticulture from 3D Radar Proximal Sensing," *IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting*, Montréal, Québec, Canada, 5-10 July 2020.
- [CI-207] L.-F. FONSECA DIAS, CA. JOUVAUD, C. DELAVEAUD, H. AUBERT, "Linear-to-Circular Polarization Conversion from Impedance Loading of Single-Port Patch Antennas," *IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting*, Montréal, Québec, Canada, 5-10 July 2020.
- [CI-208] M. CHALNOT, A. COUSTOU, H. AUBERT, P. PONS, M. LAVAYSSIÈRE, A. LEFRANÇOIS, J. LUC, "Microwave Transmission of Pressure Sensor Signal Through Explosive Fireballs," *IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting*, Montréal, Québec, Canada, 5-10 July 2020.
- [CI-209] A. DORE, M. LIHOREAU, Y. BILLON, L. RAVON, S. REIGNIER, J. BAILLY, J.F. BOMPA, E. RICARD, H. AUBERT, D. HENRY, L. CANARIO, "Millimeter-wave Radars for the Automatic Recording of Sow Postural Activity," *71st Annual Meeting of European Federation of Animal Science*, Porto, Portugal, August 31-Sept. 4 2020
- [CI-210] D. HENRY, P. PONS, H. AUBERT, "Range-Doppler Imaging Approach for the Wireless Reading of Mechanical Sensors," *European Conference on Antennas and Propagation*, Düsseldorf, Germany, 22-26 March 2021
- [CI-211] T. MARCHAL, D. HENRY, P. PONS, H. AUBERT, "Wireless Measurement of the Pressure from the Ka-Band Radar Echo of a 3D-Printed Microfluidic Depolarizing Sensor," *IEEE International Microwave Symposium*, Atlanta, Georgia, USA, 6-11 June 2021
- [CI-212] J. RIONDET, A. COUSTOU, M. LAVAYSSIÈRE, J. LUC, A. LEFRANÇOIS, H. AUBERT, P. PONS, "Shock Tube Characterization of Air Blast Pressure Sensor Based on Ultra-Miniature Silicon Membrane and Piezoresistive Gauges," *47th international conference on Micro and Nano Engineering (MNE2021)*, Turin, Italy, 20-23 September 2021
- [CI-213] K.SANCHEZ, B.ACHOUR, J. RIONDET, L. ANGLADE, M. CARRERA, A. COUSTOU, A. LECESTRE, S. CHARLOT, H. AUBERT, P. PONS, "Design, Fabrication and Characterization of a Novel Piezoresistive Pressure Sensor for Blast Waves Monitoring," *SensorDevices 2021*, The Twelfth International Conference on Sensor Device Technologies and Applications, Athens, Greece, November 14 - 18, 2021.