

LISTE DE PUBLICATIONS

Articles dans une revue internationale avec comité de lecture - Papiers réguliers

1. E. P. Simon, **D. P. Gaillot**, V. Dégardin, “Synchronization sensitivity of block-IFDMA systems,” *IEEE Transactions in Wireless Communications* (2010).
2. **(Invited) D. P. Gaillot**, C. Croënne, F. Zhang, and D. Lippens, “Transformation optics for full-dielectric electromagnetic cloak and metal-dielectric planar hyperlens,” *New Journal of Physics* **10**, 115039 (2008).
3. F. Zhang, Q. Zhao, **D. P. Gaillot**, X. Zhao, and D. Lippens, “Numerical Investigation of Metamaterials Infiltrated by Liquid Crystal,” *Journal of the Optical Society of America B* **25**, 1920 (2008).
4. **D. P. Gaillot**, O. Deparis, B. K. Wagner, V. Welch, J. P. Vigneron, and C. J. Summers, “Composite organic/inorganic butterfly scales: Producing photonic structures with atomic layer deposition,” *Physical review E* **78**, 031922 (2008).
5. F. Zhang, **D. P. Gaillot**, C. Croënne, E. Lheurette, X. Mélique, and D. Lippens, “Low-loss left-handed metamaterials at millimeter waves,” *Applied Physics Letters* **93**, 083104 (2008).
6. F. Zhang, Q. Zhao, L. Kang, **D. P. Gaillot**, X. Zhao, J. Zhou, and D. Lippens, “Magnetic Control of Negative Permeability Metamaterials Based on Liquid Crystals,” *Applied Physics Letters* **92**, 193104 (2008).
7. H. Kurt, R. Hao, Y. Chen, J. Feng, J. Blair, **D. P. Gaillot**, C. Summers, D. S. Citrin, and Z. Zhou, “Design of annular photonic crystal slabs,” *Optics Letters* **33**, 1614 (2008).
8. C. Croënne, N. Fabre, **D. P. Gaillot**, O. Vanbésien, and D. Lippens, “Bloch impedance in negative index photonic crystals,” *Physical Review B* **77**, 125333 (2008).
Select for the Virtual Journal of Nanoscale Science and Technology, April 7 (2008).
9. **D. P. Gaillot**, C. Croënne, and D. Lippens, “An all-dielectric route for terahertz cloaking,” *Optics Express* **16**, 3986 (2008).
10. C. J. Summers, E. D. Graugnard, and **D. P. Gaillot**, “Tuning of photonic crystal band properties by atomic layer deposition,” *Journal of Nonlinear Optical Physics & Materials* **17**, 1 (2008).
11. **D. P. Gaillot**, E. D. Graugnard, J. Blair, and C. J. Summers, “Dispersion control in two-dimensional superlattice photonic crystal slab waveguides by atomic layer deposition,” *Applied Physics Letters* **91**, 181123 (2007).
Select for the Virtual Journal of Nanoscale Science and Technology, November 12 (2007).

12. **D. P. Gaillot**, E. D. Graugnard, J. S. King and C. J. Summers, “*Bragg Peak Response in Liquid-Crystal-Infiltrated Photonic Crystals*,” *Journal of Optical Society of America B* **24**, (2007).
13. **D. P. Gaillot** and C. J. Summers, “*Photonic band gaps in non-close-packed inverse opals*,” *Journal of Applied Physics* **100**, 113118 (2006).
Select for the Virtual Journal of Nanoscale Science and Technology.
14. E. D. Graugnard, **D. P. Gaillot**, S. N. Dunham, C. W. Neff, T. Yamashita, and C. J. Summers, “*Photonic band tuning in 2D photonic crystal slab waveguides by atomic layer deposition*,” *Applied Physics Letters* **89**, 181108 (2006).
Select for the Virtual Journal of Nanoscale Science and Technology, November 13 (2006).
15. C. J. Summers, E. D. Graugnard, **D. P. Gaillot**, and J. S. King, “*Luminescent and Tunable 3D Photonic Crystal Structures*,” *Journal of Nonlinear Optical Physics & Materials* **15**, 203 (2006).
16. J. S. King, **D. P. Gaillot**, E. Graugnard, and C. J. Summers, “*Fabrication of non-close-packed inverse opals*,” *Advanced Materials* **18**, 1063 (2006).
17. E. D. Graugnard, **D. P. Gaillot**, J. S. King, and C. J. Summers, “*Sacrificial-layer Atomic Layer Deposition for Fabrication of Non-close-packed Inverse Opal Photonic Crystals*,” *Advanced Functional Materials* **16**, 1187 (2006).
18. **D. P. Gaillot**, T. Yamashita, and C. J. Summers, “*Photonic band gaps in highly conformal inverse shell opals*,” *Physical Review B* **72**, 205109 (2005).
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Communications internationales avec actes

1. P. Stefanut, **D.P. Gaillot**, A. Nasr, M. Liénard, P. Degauque, “*A localisation technique for LOS and NLOS scenario*” Cost2100 Meeting, Athens, Greece, February 2010.
2. O. Delangre, Ph. De Doncker, M. Liénard, **D. P. Gaillot**, and P. Degauque, “*MIMO channel emulator based on reverberation chambers*,” ITST 2009 Meeting, Lille, France, October 2009.
3. P. Stefanut, **D. P. Gaillot**, and M. Liénard, “*Parametric study of the performance of high-resolution estimation algorithms*,” **Cost 2100 Meeting**, Braunschweig, Germany, February 2009.
4. E. Tanghue, W. Joseph, M. Liénard, A. Nasr, P. Stefanut, **D. P. Gaillot**, P. Degauque, and L. Martens, “*Clustering of Channel Parameters by Block Diagonal Matrix Decomposition*,” **Cost 2100 Meeting**, Braunschweig, Germany, February 2009.

5. **D. P. Gaillot**, Q. Zhao, F. Zhang, L. Kang, C. Croënne, J. Zhou, and D. Lippens, “*Transparency Cloak Based on High-K BST Rod*,” **EuMc 2008**, Amsterdam, Netherlands, October 2008.
6. F. Zhang, Q. Zhao, L. Kang, **D. P. Gaillot**, X. Zhao, J. Zhou, and D. Lippens, “*Magnetic Control of Negative Permeability Metamaterials Based on Liquid Crystals*,” **EuMc 2008**, Amsterdam, Netherlands, October 2008.
7. C. Croënne, J. Carbonell, **D. P. Gaillot**, E. Lheurette, X. Mélique, and D. Lippens, “*Split Ring Resonator Arrays: from Microwave to Optics*,” **EuMc 2008**, Amsterdam, Netherlands, October 2008.
8. **D. P. Gaillot**, C. Croënne, and D. Lippens, “*An all-dielectric route for terahertz cloaking*,” **SPIE Europe 2008**, Strasbourg, France, April 2008.
9. **D. P. Gaillot**, E. D. Graugnard, J. S. King, and C. J. Summers, “*Tunable electro-optic photonic crystals fabricated through template directed multi-layer atomic layer deposition*,” **SPIE Europe 2006**, Strasbourg, France, April 2006.
10. E. D. Graugnard, **D. P. Gaillot**, J. S. King, and C. J. Summers, “*Photonic band gap response of structurally modified inverse non-close-packed opals by template directed multi-layer atomic layer deposition*,” **SPIE Europe 2006**, Strasbourg, France, April 2006.
11. J. S. King, **D. P. Gaillot**, T. Yamashita, C. Neff, E. Graugnard, and C. J. Summers, “*Complex, 3D Photonic Crystals Fabricated by Atomic Layer Deposition*,” **MRS Fall Meeting**, Boston, MA, December 2004.

Communications internationales sans actes

1. **D. P. Gaillot**, E. Graugnard, J. Blair, S. Dunham, C. W. Neff, T. Yamashita and C. J. Summers, “*Manipulation of Dispersion Properties of 2D PC Slab Waveguides by Atomic Layer Deposition*,” **2007 CLEO Europe/IQEC Annual Meeting**, Munich, Germany, June 2007.
2. **D. P. Gaillot**, E. Graugnard, J. Blair, S. Dunham, C. W. Neff, T. Yamashita and C. J. Summers, “*Manipulation of Dispersion Properties of 2D PC Slab Waveguides by Atomic Layer Deposition*,” **2007 CLEO Europe/IQEC Annual Meeting**, Munich, Germany, June 2007.
3. E. D. Graugnard, D. P. Gaillot, S. N. Dunham, C. W. Neff, T. Yamashita, and C. J. Summers, “*Photonic band tuning in 2D photonic crystals by atomic layer deposition*,” **2006 IEEE LEOS Annual Meeting Conference**, Montreal, Canada, November 2006.
4. C. J. Summers, **D. P. Gaillot**, T. Yamashita, H. Kurt, D. Lippens, and D. Citrin, “*Photonic Crystal Biochemical Sensor*,” **IMCS 11 2006**, Brescia, Italy, July 2006 (Poster).

5. C. W. Neff, **D. P. Gaillot**, T. Yamashita and C. J. Summers, “*Refraction and Dispersion in Nonlinear Photonic Crystal Superlattices*,” **LEOS 2005**, Sydney, Australia, October 2005.
6. **D. P. Gaillot**, E. D. Graugnard, J. S. King, and C. J. Summers, “*Highly Tunable Photonic Band Gap in Inverse Non-Close-Packed Shell Structures*,” **LEOS 2005**, Sydney, Australia, October 2005.
7. **D. P. Gaillot**, T. Yamashita, and C. J. Summers, “*Photonic band gap in inverse structures*,” **PECS-VI: International Symposium on Photonic and Electromagnetic Crystal Structures**, Creete, Greece, June 2005 (Poster).
8. **D. P. Gaillot**, W. Park, J. King, E. D. Graugnard and C. J. Summers, “*Experimental and Theoretical Investigations of 3D Inverted opals*,” **Photonics Summer School**, Dijon, France, June 2004 (Poster).

Conférences invitées

1. **D. P. Gaillot**, “*Optical properties of artificial butterfly wings: From mimicry to novel applications*,” **BioPHOT Workshop Meeting 2009**, San-Sebastian, The Basque Country, Spain, July 2009.
2. C. J. Summers, **D. P. Gaillot**, M. Crne, J. Blair, J. O. Park, and M. Srinivasarao, “*Investigations and mimicry of the optical properties of butterfly wings*,” **9th Mediterranean Workshop and Topical Meeting**, "Novel Optical Materials and Applications," Cetraro, Italy 8 – 13, June 2009.
3. C. Croënne, N. Fabre, **D. P. Gaillot**, O. Vanbésien, and D. Lippens, “*Impedance mismatch in negative index photonic crystals*,” **SPIE Europe 2008**, Strasbourg, France, April 2008.
4. C. Croënne, **D. P. Gaillot**, L. Desplanque, E. Lheurette, J. F. Lampin, and D. Lippens, “*Left handed metamaterials at Terahertz frequencies*,” **IRMMW-THz 2007**, Cardiff, Wales, September 2007.
5. C. J. Summers, E. Graugnard, **D. P. Gaillot** and J. Blair, “*Tuning of Photonic Crystal Band Properties by Atomic Layer Deposition*,” **8th Mediterranean Workshop and Topical Meeting**, "Novel Optical Materials and Applications," Cetraro, Italy 4 – 8, June 2007.
6. C. J. Summers, E. G. Graugnard, **D. P. Gaillot**, Y. Zhang-Williams, and I. C. Khoo, “*Tunable 3D Photonic Crystals by Liquid Crystal Infiltration*,” **SPIE Optics & Photonics 2006**, San Diego, USA, August 2006.

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1. P. Stefanut, **D. P. Gaillot**, and M. Liénard, “*Parametric study of the performance of high-resolution estimation algorithms*,” **Cost 2100 Meeting, TD(09) 763**, Braunschweig, Germany, February 2009.
2. E. Tanghue, W. Joseph, M. Liénard, A. Nasr, P. Stefanut, **D. P. Gaillot**, P. Degauque, and L. Martens, “*Clustering of Channel Parameters by Block Diagonal Matrix Decomposition*,” **Cost 2100 Meeting, TD(09) 712**, Braunschweig, Germany, February 2009.
3. **D. P. Gaillot**, Q. Zhao, F. Zhang, L. Kang, C. Croënne, J. Zhou, and D. Lippens, “*Transparency Cloak Based on High-K BST Rod*,” **Proceedings of EuMc 2008**, Amsterdam, Netherlands, pp 869 – 872, October 2008.
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10. E. D. Graugnard, J. S. King, **D. P. Gaillot**, and C. J. Summers, “*Atomic Layer Deposition for Nano-Fabrication of Optoelectronic Devices*,” **Proceedings of the ECS 210th International Conference on Atomic Layer Deposition 2006** published in *Electrochemical Society Transactions* **3**, (15) 191 (2007).
11. C. J. Summers, E. G. Graugnard, **D. P. Gaillot**, Y. Zhang-Williams, and I. C. Khoo, “*Tunable 3D Photonic Crystals by Liquid Crystal Infiltration*,” **Proceedings of the SPIE Optics & Photonics 2006 6332**, San Diego, USA, September 2006.
12. **D. P. Gaillot**, E. Graugnard, J. S. King, and C. S. Summers, “*Tunable Electro-optic Photonic Crystals Fabricated Through Template Directed Multi-layer Atomic Layer*

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13. E. Graugnard, **D. P. Gaillot**, J. S. King, and C. J. Summers, “*Photonic Band Gap Response of Structurally Modified Non-close-packed Inverse Opals by Template Directed Multi-layer Atomic Layer Deposition*,” **Proceedings of the SPIE Europe Meeting 6182**, Strasbourg, France, April 2006.
14. C. J. Summers, E. D. Graugnard, **D. Gaillot**, and J. S. King, “*Luminescent and Tunable 3D Photonic Crystal Structures*,” **Proceedings of the NOMA Meeting**, Cetraro, Italy, 2005.
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1. O. Delangre, Ph. De Doncker, **D. P. Gaillot**, P. Stefanut, et M. Liénard, “*Emulation de canaux de propagation à l’aide de chambres réverbérantes*,” Réunion Générale « Interférences d’Ondes GT6 » 2009, Paris, Octobre 2009.
2. C. Croëgne, N. Fabre, **D. P. Gaillot**, O. Vanbésien et D. Lippens, “*Désadaptation d’impédance dans les cristaux photoniques*,” Réunion Générale « Interférences d’Ondes » 2007, Pessac, Novembre 2007 (Poster).
3. **D. P. Gaillot**, C. Croëgne, et D. Lippens, “*Invisibilité Aux Fréquences Terahertz Par Voie Diélectrique*,” Réunion Générale « Interférences d’Ondes » 2007, Pessac Novembre 2007.
4. **D. P. Gaillot**, C. Croëgne, G. Houzet, N. Fabre, X. Mélique, O. Vanbésien, C. J. Summers et D. Lippens, “*Des Cristaux Photoniques Aux Métamatériaux Diélectriques Par Résonance de Mie*,” GDR Ondes 2007, Châtenay-Malabry Mai 2007 (Poster).