

## PUBLICATIONS ET COMMUNICATIONS

### 28 ARTICLES EN TANT QU'AUTEUR PRINCIPAL (DOCTORANT OU PRINCIPAL ENCADRANT)

- [1] "Domain wall pinning on strain relaxation defects in FePt(001)/Pt thin films"  
[J.P. Attané](#), Y. Samson, A. Marty, D. Halley, C. Beigne  
**Appl. Phys. Lett.**, 79 (2001) 794
- [2] "Ordering intermetallic alloys by ion irradiation: a way to tailor magnetic media"  
H. Bernas, [J.P. Attané](#), K.H. Heinig, D. Halley, D. Ravelosona, A. Marty, P. Auric, C. Chappert, Y. Samson  
**Phys. Rev. Lett.** 91, (2003) 077203
- [3] "Magnetic domain wall propagation unto the percolation threshold across a pseudorectangular disordered lattice"  
[J.P. Attané](#), Y. Samson, A. Marty, J.C. Toussaint, G. Sors, A. Mougin  
**Phys. Rev. Lett.** 93, (2004) 257203
- [4] "Thermally Activated Depinning of a Narrow Domain Wall from a Single Defect"  
[J. P. Attané](#), D. Ravelosona, A. Marty, Y. Samson, C. Chappert  
**Phys. Rev. Lett.** 96, (2006) 147204
- [5] "Electron-magnon diffusion and magnetization reversal detection in FePt thin films"  
P. Mihai, [J. P. Attané](#), A. Marty, P. Warin, Y. Samson  
**Phys. Rev. B** 77, 060401(R) (2008)
- [6] "Magnetic domain wall pinning and coercivity in FePt/MgO and FePt/Pt thin films"  
T. Jourdan, [J.P. Attané](#), F. Lançon, C. Beigné, L. Vila, A. Marty  
**J. Mag. Mag. Mater.**, 321 (2009), 2187
- [7] "Magnetization reversal dominated by domain wall pinning in FePt based spin valves"  
A. Mihai, [J.P. Attané](#), L. Vila, C. Beigné, J.C. Pillet, A. Marty  
**Appl. Phys. Lett.** 94, 122509 (2009);
- [8] "Non adiabatic spin-torques in narrow magnetic domain walls"  
C. Burrowes, A.P. Mihai, D. Ravelosona, J.V. Kim, C. Chappert, L. Vila, A. Marty, Y. Samson, F. Garcia-Sanchez, L.D. Buda-Prejbeanu, I. Tudosa, E.E. Fullerton, [J.P. Attané](#),  
**Nature Physics** 6, 17 (2010).
- [9] "Invasion percolation universality class and fractal geometry of magnetic domains"  
[J.P. Attané](#), M. Tissier, A. Marty, L. Vila  
**Phys. Rev. B** 82, 024408 (2010)
- [10] "Stochastic domain-wall depinning under current in FePt spin valves and single layers"  
A.P. Mihai, F. Garcia Sanchez, L. Vila, A. Marty, L.D. Buda-Prejbeanu, J.C. Pillet, C. Beigné, D. Ravelosona, C. Mannequin, J.C. Toussaint, [J.P. Attané](#)

- Phys. Rev. B** 84, 014411 (2011)
- [11] "Detection of Domain Wall position and magnetization reversal in nanostructures using the magnon contribution to resistivity"  
V. D. Nguyen, L. Vila, P. Lascowski, A. Marty, T. Faivre, [J.P. Attané](#)  
**Phys. Rev. Lett.** 107, 136605 (2011)
- [12] "Spin signal in metallic lateral spin valves made by a multiple angle evaporation technique"  
P. Laczowski, L. Vila, S. Ferry, A. Marty, J.-M. George, H. Jaffrès, A. Fert, T. Kimura, T. Yang, Y. Otani, [J.P. Attané](#)  
**Applied Physics Express** 4 (2011) 063007
- [13] "Coercivity enhancement in FePt nanowires due to the suppression of available paths for domain wall propagation"  
[J. P. Attané](#), D. Ravelosona, A. Marty, V. D. Nguyen, L. Vila  
**Phys. Rev. B** 84, 144418 (2011)
- [14] "Magnon magnetoresistance of NiFe nanowires: Size dependence and domain wall detection" V. D. Nguyen, C. Naylor, L. Vila, A. Marty, P. Laczowski, C. Beigne, L. Notin, Z. Ishaque, [J. P. Attané](#)  
**Appl. Phys. Lett.** 99, 262504 (2011)
- [15] "Dimensionality effects on the magnetization reversal in narrow FePt nanowires"  
V. D. Nguyen, L. Vila, A. Marty, J. C. Pillet, L. Notin, C. Beigné, S. Pizzini, [J. P. Attané](#)  
**Appl. Phys. Lett.** 100, 252403 (2012)
- [16] "In-plane and out-of-plane spin precession in lateral spin-valves"  
J.-C. Rojas Sánchez, P. Laczowski, W. F. Savero Torres, M. Cubukcu, V. D. Nguyen, L. Notin, C. Beigné, C. Vergnaud, A. Marty, M. Jamet, L. Vila, [J. P. Attané](#)  
**Appl. Phys. Lett.** 102, 132408 (2013)
- [17] "Asymmetric magnetoresistance of nanowires with perpendicular anisotropy seen as a contribution from the contacts"  
V. D. Nguyen, L. Vila, A. Marty, P. Warin, C. Vergnaud, M. Jamet, L. Notin, C. Beigné, [J. P. Attané](#)  
**J. Appl. Phys.** 113, 183906 (2013)
- [18] "Magnetization switching detection of a single permalloy nanomagnet using magneto-transport measurements"  
V. D. Nguyen, P. Laczowski, A. Marty, L. Notin, C. Beigné, L. Vila, [J. P. Attané](#)  
**J. Appl. Phys.** 115, 053912 (2014)
- [19] "Switchable spin-current source controlled by magnetic domain walls"  
W. Savero Torres, P. Laczowski, V. D. Nguyen, J. C. Rojas Sanchez, L. Vila, A. Marty, M. Jamet, [J. P. Attané](#)  
**Nano letters** 14(7), 4016 (2014)

- [20] "Elementary depinning processes of magnetic domain walls under fields and currents"  
V. D. Nguyen, W. Savero Torres, P. Laczkowski, A. Marty, M. Jamet, C. Beigné, L. Notin, L. Vila, [J. P. Attané](#)  
**Scientific Reports** 4, 6509 (2014)
- [21] "Comparison of the use of NiFe and CoFe as electrodes for metallic lateral spin-valves"  
G. Zahnd, L. Vila, V. T. Pham, A. Marty, P. Laczkowski, W. Savero Torres, C. Beigné, C. Vergnaud, M. Jamet, [J.P. Attané](#)  
**Nanotechnology** 27, 035201 (2016)
- [22] "Introduction and pinning of Domain Walls in 50nm NiFe constrictions using local and external magnetic fields"  
G. Zahnd, L. Vila, V. T. Pham, A. Marty, M. [Jamet](#), C. Beigné, L. Notin, C. Vergnaud, [J.P. Attané](#)  
**J. Magn. Magn. Mater.**, 406, 166 (2016)
- [23] "Using domain walls to perform non-local measurements with high spin signal amplitudes"  
W.S. Torres, V.T., Pham, G. Zahnd, P. Laczkowski, V. D. Nguyen, C. Beigné, L. Notin, M. Jamet, A. Marty, [J.P. Attané](#)  
**Appl. Phys. Lett.**, 109(4), 042405 (2016)
- [24] "Ferromagnetic/nonmagnetic nanostructures for the electrical measurement of the Spin Hall effect"  
V. T. Pham, L. Vila, G. Zahnd, A. Marty, W. Savero Torres, M. Jamet, and [J. P. Attané](#)  
**Nano Letters** 16(11), 6755 (2016)
- [25] "Electrical detection of magnetic domain walls by inverse and direct spin Hall effect"  
Pham, V.T., Zahnd, G., Marty, A., Savero Torres, W., Jamet, M., Noël, P., Vila, L. and [J. P. Attané](#)  
**Appl. Phys. Lett.**, 109(19), 192401 (2016)
- [26] "Giant magnetoresistance in lateral metallic nanostructures for spintronic applications"  
G. Zahnd, L. Vila, V.T. Pham, A. Marty, C. Beigné, C. and [J. P. Attané](#)  
**Scientific Reports** 7, 9553 (2017)
- [27] "Calculation method of spin accumulations and spin signals in nanostructures using spin resistors"  
W. Savero Torres, A. Marty, P. Laczkowski, L. Vila, M. Jamet and [J. P. Attané](#)  
**Eur. Phys. Jour. B** 91, 37 (2018)
- [28] "Highly efficient spin-to-charge current conversion at room temperature in strained HgTe surface states"  
P. Noël, C. Thomas, Y. Fu, L. Vila, B. Haas, P.H. Jouneau, S. Gambarelli, T. Meunier, P. Ballet, [J. P. Attané](#)

**Phys. Rev. Lett.**, accepted, (2018)

## 28 ARTICLES EN TANT QUE COLLABORATEUR A UNE ETUDE

- [29] “Individual domain wall resistance in submicron ferromagnetic structures”  
R. Danneau, P. Warin, [J.P. Attané](#), I. Petej, C. Beigne, C. Fermon, O. Klein, A. Marty, F. Ott, Y. Samson, M. Viret  
**Phys. Rev. Lett.** 88, (2002) 57201
- [30] “Soft x-ray magnetic speckles from a nanostructured FePd wire”  
K. Chesnel, M. Belakhovsky, F. Livet, S.P. Collins, G. van der Laan, S.S. Dhesi, [J.P. Attané](#), A. Marty  
**Phys. Rev. B**, 66 (2002) 172404
- [31] “Magnetic anisotropy of aligned magnetic stripe domains in FePd studied by soft x-ray resonant magnetic scattering, magnetic force microscopy and micromagnetic modelling”  
G. van der Laan, K. Chesnel, M. Belakhovsky, A. Marty, F. Livet, S.P. Collins, E. Dudzik, A. Haznara, [J.P. Attané](#)  
**Superlattices and Microstructures** 34 (2003) 107–126
- [32] “Chemical order and selection of a mechanism for strain relaxation in epitaxial FePd(Pt) thin layers”  
D. Halley, A. Marty, P. Bayle-Guillemaud, B. Gilles, [J.P. Attané](#), Y. Samson  
**Phys. Rev. B** 70, (2004) 174438
- [33] “Effect of crystalline defects on domain wall motion under field and current in nanowires with perpendicular magnetization”  
F. Garcia-Sanchez, H. Szabolcs, A.P. Mihai, L. Vila, A. Marty, [J.P. Attané](#), J.-Ch. Toussaint, L.D. Buda-Prejbeanu  
**Phys. Rev. B** 81, 134408 (2010)
- [34] “Electrical and thermal spin accumulation in germanium”  
A. Jain, C. Vergnaud, J. Peiro, J. C. Le Breton, E. Prestat, L. Louahadj, C. Portemont, C. Ducruet, V. Baltz, A. Marty, A. Barski, P. Bayle-Guillemaud, L. Vila, [J.-P. Attané](#), E. Augendre, H. Jaffrès, J.-M. George, M. Jamet  
**Appl. Phys. Lett.** 101, 022402 (2012)
- [35] “Enhancement of the spin signal in permalloy/gold multiterminal nanodevices by lateral confinement”  
P. Laczkowski, L. Vila, V.-D. Nguyen, A. Marty, [J.-P. Attané](#), H. Jaffrès, J.-M. George, A. Fert  
**Phys. Rev. B** 85, 220404(R) (2012)
- [36] “Crossover from Spin Accumulation into Interface States to Spin Injection in the Germanium Conduction Band”

- A. Jain, J.-C. Rojas-Sanchez, M. Cubukcu, J. Peiro, J. C. Le Breton, E. Prestat, C. Vergnaud, L. Louahadj, C. Portemont, C. Ducruet, V. Baltz, A. Barski, P. Bayle-Guillemaud, L. Vila, [J.-P. Attané](#), E. Augendre, G. Desfonds, S. Gambarelli, H. Jaffrès, J.-M. George, M. Jamet  
**Phys. Rev. Lett.** 109, 106603 (2012)
- [37] "Transition from spin accumulation into interface states to spin injection in silicon and germanium conduction bands",  
A. Jain, J.-C. Rojas-Sanchez, M. Cubukcu, J. Peiro, J. C. Le Breton, C. Vergnaud, E. Augendre, L. Vila, [J. P. Attané](#), S. Gambarelli, H. Jaffres, J. M. George, M. Jamet,  
**Eur. Phys. J. B** 86, 140 (2013)
- [38] "Spin Pumping and Inverse Spin Hall Effect in Germanium"  
J.-C. Rojas-Sanchez, M. Cubukcu, A. Jain, C. Vergnaud, C. Portemont, C. Ducruet, A. Barski, A. Marty, L. Vila, [J. P. Attané](#), E. Augendre, G. Desfonds, S. Gambarelli, H. Jaffrès, J.-M. George, M. Jamet  
**Phys. Rev. B** 88, 064403 (2013)
- [39] "Spin to charge conversion using Rashba coupling at the interface between non-magnetic materials"  
J. C. Rojas Sánchez, L. Vila, G. Desfonds, S. Gambarelli, [J.P. Attané](#), J. M. De Teresa, C. Magén, A. Fert  
**Nature communications**, 4 (2013)
- [40] "Pure spin current-induced domain wall motion probed by localized spin signal detection."  
N. Motzko, B. Burkhardt, N. Richter, R. Reeve, P. Laczowski, W. S. Torres, L. Vila, [J. P. Attané](#), M. Kläui  
**Phys. Rev. B**, 88, 214405 (2013)
- [41] "Spin relaxation in Cu and Al spin conduits"  
N. Motzko, N. Richter, B. Burkhardt, R. Reeve, P. Laczowski, L. Vila, [J. P. Attané](#), M. Kläui  
**Physica Status Solidi (a)** 211.5, 965 (2014)
- [42] "Spin pumping and inverse spin Hall effect in platinum: the essential role of spin-memory loss at metallic interfaces"  
J. C. Rojas-Sanchez, N. Reyren, P. Laczowski, W. Savero, [J. P. Attané](#), C. Deranlot, M. Jamet, J. M. George, L. Vila, H. Jaffres  
**Phys. Rev. Lett.** 112, 106602 (2014)
- [43] "Experimental evidences of a large extrinsic spin Hall effect in AuW alloy"  
P. Laczowski, J. C. Rojas-Sánchez, W. Savero-Torres, H. Jaffrès, N. Reyren, C. Deranlot, L. Notin, C. Beigné, A. Marty, [J.-P. Attané](#), L. Vila, J.-M. George and A. Fert  
**Appl. Phys. Lett.** 104, 142403 (2014)
- [44] "Ferromagnetic tunnel contacts to graphene: Contact resistance and spin signal"  
M. Cubukcu, M.-B. Martin, P. Laczowski, C. Vergnaud, A. Marty, [J.P. Attané](#), P. Seneor, A. Anane, C. Deranlot, A. Fert, S. Auffret, C. Ducruet, L. Notin, L. Vila, M. Jamet

- J. Appl. Phys.** 117, 083909 (2015)
- [45] "Evaluation of spin diffusion length of AuW alloys using spin absorption experiments in the limit of large spin-orbit interactions»  
P. Laczkowski, H. Jaffrès, W. Savero-Torres, J.-C. Rojas-Sánchez, Y. Fu, N. Reyren, C. Deranlot, L. Notin, C. Beigné, [J.-P. Attané](#), L. Vila, J.-M. George, A. Marty  
**Phys. Rev. B** 92, 214405 (2015)
- [46] "Spin transport in p-type germanium"  
F Rortais, S Oyarzún, F Bottegoni, J-C Rojas-Sánchez, P Laczkowski, A Ferrari, C Vergnaud, C Ducruet, C Beigné, N Reyren, A Marty, [J-P Attané](#), L Vila, S Gambarelli, J Widiez, F Ciccacci, H Jaffrès, J-M George, M Jamet  
**J. Phys.: Condens. Matter** 28, 165801 (2016)
- [47] "Evaluation of spin diffusion length of AuW alloys using spin absorption experiments in the limit of large spin-orbit interactions"  
P. Laczkowski, H. Jaffrès, W. Savero-Torres, J.-C. Rojas-Sánchez, Y. Fu, N. Reyren, C. Deranlot, L. Notin, C. Beigné, J.-P. Attané, L. Vila, J.-M. George, A. Marty  
**Phys. Rev. B** 92, 214405 (2015)
- [48] "Spin transport in p-type germanium"  
F Rortais, S Oyarzún, F Bottegoni, J-C Rojas-Sánchez, P Laczkowski, A Ferrari, C Vergnaud, C Ducruet, C Beigné, N Reyren, A Marty, [J-P Attané](#), L Vila, S Gambarelli, J Widiez, F Ciccacci, H Jaffrès, J-M George, M Jamet  
**J. Phys.: Condens. Matter** 28, 165801 (2016)
- [49] "Highly efficient and tunable spin-to-charge conversion through Rashba coupling at oxide interfaces"  
E. Lesne, Y. Fu, S. Oyarzun, J. C. Rojas-Sánchez, D. C. Vaz, H. Naganuma, G. Sicoli, [J. P. Attané](#), M. Jamet, E. Jacquet, J. M. George, A. Barthélémy, H. Jaffrès, A. Fert, M. Bibes, L. Vila  
**Nature Materials** (2016)
- [50] "Electrical spin injection in silicon and the role of defects"  
Rortais, F., C. Vergnaud, C. Ducruet, C. Beigné, A. Marty, [J.-P. Attané](#), J. Widiez, H. Jaffrès, J.-M. George, M. Jamet  
**Physical Review B** 94, 174426 (2016)
- [51] "Evidence for spin-to-charge conversion by Rashba coupling in metallic states at the Fe/Ge (111) interface."  
Oyarzún, S., Nandy, A.K., Rortais, F., Rojas-Sánchez, J.C., Dau, M.T., Noël, P., Laczkowski, P.,..., [Attane, J.P.](#),..., Jamet, M.  
**Nature communications**, 7, 13857 (2016)
- [52] " Spin–Charge Conversion Phenomena in Germanium "  
Oyarzún, S., Rortais, F., Rojas-Sánchez, J.C., Bottegoni, F., Laczkowski, P., Vergnaud, C., Pouget, S., Okuno, H., Vila, L., [Attané, J.P.](#) and Beigné, C., ..., Jamet, M.

**J. Phys. Soc. of Japan**, 86(1), 011002 (2017)

- [53] "Geometrical control of pure spin current induced domain wall depinning"  
Pfeiffer, A., Reeve, R.M., Voto, M., Savero-Torres, W., Richter, N., Vila, L., [Attane, J.P.](#), Lopez-Diaz, L. and Kläui, M  
**Journal of Physics: Condensed Matter**, 29, 085802 (2017)
- [54] "Spin conductance of YIG thin films driven from thermal to subthermal magnons regime by large spin-orbit torque"  
Thiery, N., Draveny, A., Naletov, V.V., Vila, L., [Attané, J.P.](#), de Loubens, G., Viret, M., Beaulieu, N., Youssef, J.B., Demidov, V.E. and Demokritov, S.O.  
**arXiv preprint arXiv:1702.05226**. (2017)
- [55] "Non-local opto-electrical spin injection and detection in germanium at room temperature"  
F. Rortrais, C. Vergnaud, A. Marty, L. Vila, [J.-P. Attané](#), J. Widiez, C. Zucchetti, F. Bottegoni, H. Jaffrès, J.-M. George, and M. Jamet  
**Appl. Phys. Lett.** 111, 182401 (2017)
- [56] "Large enhancement of the spin Hall effect in Au by side-jump scattering on Ta impurities"  
P. Laczkowski, Y. Fu, H. Yang, J.-C. Rojas-Sánchez, P. Noel, V. T. Pham, G. Zahnd, C. Deranlot, S. Collin, C. Bouard, P. Warin, V. Maurel, M. Chshiev, A. Marty, [J.-P. Attané](#), A. Fert, H. Jaffrès, L. Vila, and J.-M. George  
**Phys. Rev. B Rapid. Com.**, 140405 (2017)

## CHAPITRE DE LIVRE

- [L1] "FePt thin films: magnetic properties and domain wall propagation"  
[J.P. Attané](#)  
"Magnetic Thin Films: Properties, Performance and Applications", Nova Science Publishers, éd. : John P. Volkerts (2011)

## PROCEEDINGS

- [1] "Spin pumping and inverse spin Hall effect in platinum and other 5d metals: the essential role of spin-memory loss and spin-current discontinuities at interfaces."  
J.C. Rojas-Sánchez, N. Reyren, P. Laczkowski, W. Savero, [J. P. Attané](#), C. Deranlot, ... & H. Jaffrès  
SPIE NanoScience+ Engineering (pp. 916729). International Society for Optics and Photonics, (August 2014)
- [2] "Spin pumping and spin-orbit effects in Ge"

S. Oyarzún, A. Kumar Nandy, F. Rortais, J. C. Rojas-Sánchez, P. Laczkowski, S. Pouget, H. Okuno, L. Vila, C. Vergnaud, C. Beigne, A. Marty, [J. P. Attané](#), S. Gambarelli, J. M. George, H. Jaffres, S. Blügel, M. Jamet  
Proc. SPIE 9931, Spintronics IX, 993112 (November 4, 2016)

- [3] “Spin Hall effect in 5d Au: W transition metal alloys”  
P. Laczkowski, J. C. Rojas-Sánchez, W. Savero-Torres, N. Reyren, C. Deranlot ; J.-M. George ; H. Jaffrès ; Y. Fu ; A. Marty ; P. Warin ; [J. P. Attané](#) ; L. Vila ; A. Fert  
Proc. SPIE 9931, Spintronics IX, 993108 (November 4, 2016)

## BREVETS

« Dispositif et procédé de détection d’une inhomogénéité magnétique dans un matériau ferromagnétique. »

(21864 FR, 2016)

[J. P. Attané](#), W. Savero-Torres, L. Vila, A. Marty



## CONFERENCES: ORAL COMMUNICATIONS

The name of the speaker is underlined

- [1] "Magnetization reversal and microstructure in thin FePt(001) layers with perpendicular anisotropy"  
**J.P. Attané**, Y. Samson, A. Marty, D. Halley, P. Bayle-Guillemaud, C. Beigne, J.C. Toussaint  
45th Conference on Magnetism and Magnetic Materials, San Jose (USA), 07-11 janvier 2001
  
- [2] "Domain wall propagation and microstructure in thin FePt layers with perpendicular anisotropy"  
**J.P. Attané**, Y. Samson, A. Marty, D. Halley, P. Bayle, S. Auffret, C. Beigné, D. Ravelosona, C. Chappert, J.C. Toussaint  
Eastmag 2001, "Trends in Magnetism ", Ekaterinbourg (Russie), 27 février-2 Mars 2001
  
- [3] *Invited*  
"Domain wall resistance as a quantitative probe of magnetisation reversal"  
**J.P. Attané**, C. Beigné, R. Danneau, C. Fermon, O. Klein, A. Marty, F. Ott, Y. Petej, Y. Samson, M. Viret, P. Warin  
1<sup>st</sup> Joint European Magnetic Symposia, Grenoble (France), 28 août – 1 septembre 2001
  
- [4] "Microstructure and magnetization reversal in thin FePt layers with perpendicular anisotropy"  
**J.P. Attané**, Y. Samson, A. Marty, D. Halley, C. Beigné, J.C. Toussaint  
1st Joint European Magnetic Symposia, Grenoble (France), 28 août – 1 septembre 2001
  
- [5] "Influence de la microstructure sur la propagation de parois magnétiques dans des couches minces de FePt à anisotropie perpendiculaire"  
**J.P. Attané**, Y. Samson, A. Marty, D. Halley, S. Auffret, C. Beigné, J.C. Toussaint  
Colloque Louis Néel, Dourdan (France), 8-9 mars 2001
  
- [6] "Influence de la microstructure sur la propagation de parois magnétiques dans des couches minces de FePt à anisotropie perpendiculaire"  
**J.P. Attané**, Y. Samson, A. Marty, D. Halley, J.C. Toussaint, C. Beigné  
GDR Pommes, Gif-sur-Yvette (France), 5-6 avril 2001
  
- [7] "Influence de défauts de relaxation sur la propagation de parois magnétiques dans des couches minces de FePt à anisotropie perpendiculaire"  
**J.P. Attané**, A. Marty, Y. Samson, D. Halley  
Colloque RELAX, Paris, 19-21 mars 2002
  
- [8] "Magnetization reversal and microstructure in thin FePt(001) layers with perpendicular anisotropy"  
**J.P. Attané**, Y. Samson, A. Marty, D. Halley, P. Bayle, C. Beigne, J.C. Toussaint

46<sup>th</sup> Annual Conference on Magnetism and Magnetic Materials, Seattle (USA), 12-16 novembre 2001

- [9] *Invited*  
"FePt alloy thin films: chemical order, anisotropy and other magnetic properties"  
Y. Samson, **J.P. Attané**, D. Halley, A. Marty, D. Ravelosona, C. Chappert, H. Bernas  
Intermag 2002, Amsterdam (Hollande), 28 avril-2 mars 2002
- [10] *Invited*  
"Tailoring magnetic nanostructures by ion irradiation"  
H. Bernas, D. Halley, K-H. Heinig, **J. P. Attané**, A. Marty, P. Auric, D. Ravelosona, C. Chappert, Y. Samson  
International Workshop on Nanostructures for Electronics and Optics, Dresde (Allemagne), 5-6 octobre 2002
- [11] "Ordering of magnetic compounds by ion irradiation"  
D. Ravelosona, J.L. Menendez, C. Chappert, H. Bernas, **J.P. Attané**, Y. Samson, A. Marty  
47<sup>th</sup> Conference on Magnetism and Magnetic Materials, Tampa (USA), 11-14 novembre 2002
- [12] "Mise en ordre à basse température de films minces FePd et FePt par irradiation par des ions légers"  
**J.P. Attané**, D. Ravelosona, H. Bernas, D. Halley, A. Marty, C. Chappert, P. Auric, Y. Samson  
Colloque Louis Néel, Gerardmer (France), 24-26 septembre 2002
- [13] "Microstructure and magnetization reversal in thin FePt layers with perpendicular anisotropy"  
**J.P. Attané**, D. Ravelosona, F. Cayssol, Y. Samson, A. Marty, J.C. Toussaint, C. Chappert  
47<sup>th</sup> Conference on Magnetism and Magnetic Materials, Tampa (USA), 11-14 novembre 2002
- [14] "Post-growth ordering of magnetic intermetallic alloy nanostructures by ion irradiation"  
H. Bernas, D. Halley, K.-H. Heinig, **J.P. Attané**, D. Ravelosona, A. Marty, P. Auric, C. Chappert, Y. Samson  
MRS Spring Meeting, San Fransisco (USA), 21-25 avril 2003
- [15] "Relaxation of the elastic strain of FePd grown on Pd(001) and FePt grown on Pt(001) thin films"  
D. Halley, A. Marty, Y. Samson, **J.P. Attané**, P. Bayle, B. Gilles  
MRS Spring Meeting, San Fransisco (USA), 21-25 avril 2003
- [16] "Light ion irradiation to enhance chemical order and magnetic anisotropy in FePd(Pt) alloys"  
Y. Samson, H. Bernas, **J.P. Attané**, D. Ravelosona, K.H. Heinig, A. Marty, P. Auric, C. Chappert

Innovative Mass Storage Technologies (IMST 2003), Grenoble (France), 23-24 septembre 2003

- [17] "Ordering intermetallic alloys by ion irradiation : a new way to tailor magnetic media "  
D. Ravelosona, J.L. Menendez, **J.P. Attané**, H. Bernas, D. Halley, K.H. Heinig, A. Marty, P. Auric, C. Chappert, Y. Samson  
Conférence Intermag 2003, Boston (USA), 28 mars–3 avril 2003
- [18] "Inducing chemical ordering and enhancing magnetic anisotropy in FePt and FePd by ion irradiation - an atomistic computer simulation study"  
K.H. Heinig, H. Bernas, **J.P. Attané**, A. Marty, P. Auric, D. Halley, Y. Samson, D. Ravelosona, C. Chappert  
MRS Fall Meeting, Boston (USA), 1-5 décembre 2003
- [19] "Ion irradiation ordering of intermetallic alloys for magnetic media"  
H. Bernas, **J.P. Attané**, K.H. Heinig, D. Halley, A. Marty, P. Auric, Y. Samson, D. Ravelosona ; C. Chappert  
MRS Fall Meeting, Boston (USA), 1-5 décembre 2003
- [20] "Enhancing chemical order and anisotropy of intermetallic alloys for magnetic media by light ion irradiation"  
Y. Samson, H. Bernas, **J. P. Attané**, K-H. Heinig, D. Halley, A. Marty, P. Auric, D. Ravelosona, C. Chappert  
9th Joint MMM-Intermag Conference, Anaheim (USA), 5-9 janvier 2004
- [21] "Magnetization reversal in FePt/Pt(001) thin layers with perpendicular anisotropy : domain wall pinning on bidimensionnal defects and fractal domain configurations"  
**J.P. Attané**, Y. Samson, A. Marty, J.C. Toussaint  
9<sup>th</sup> Joint MMM-Intermag Conference, Anaheim (USA), 5-9 janvier 2004
- [22] "Propagation d'une paroi magnétique dans une nanostructure : observation de sauts de Barkhausen, et mesures de dynamique de propagation à travers une piste"  
**J.P. Attané**, D. Ravelosona, A. Marty, C. Chappert, Y.Samson  
Colloque Louis Néel, Autrans (France), 17-19 mars 2004
- [23] "Propagation d'une paroi magnétique dans une nanostructure : observation de sauts de Barkhausen, et mesures de dynamique de propagation à travers une piste"  
**J.P. Attané**, D. Ravelosona, A. Marty, C. Chappert, Y.Samson  
Colloque Louis Néel, Autrans (France), 17-19 mars 2004
- [24] "Propagation d'une paroi magnétique dans une nanostructure : observation de sauts de Barkhausen, et mesures de dynamique de propagation à travers une piste"  
**J.P. Attané**, D. Ravelosona, A. Marty, C. Chappert, Y.Samson  
Colloque Louis Néel, Autrans (France), 17-19 mars 2004

- [25] “Géométrie fractale, percolation et universalité : exemple des domaines magnétiques dans des couches minces FePt/MgO et FePt/Pt”  
H. Durand, **J.P. Attané**, A. Marty, Y. Samson, M. Tissier, A. Mougin, J.P. Jamet  
Colloque Louis Néel, Dourdan (France), 21-23 Septembre 2005
- [26] “Percolation et universalité : géométrie fractale des domaines magnétiques dans des couches minces FePt/MgO et FePt/Pt”  
**J.P. Attané**, H. Durand, M. Tissier, A. Mihai, A. Marty, Y. Samson, P. Metaxas, A. Mougin and J. P. Jamet  
Journées de la Matière Condensée, JMC10, Toulouse (France), 28 aout -1 septembre 2006
- [27] “Observation du piégeage d'une paroi magnétique sur un défaut unique”  
**J.P. Attané**, D. Ravelosona, A. Marty, C. Chappert and Y. Samson  
Journées de la Matière Condensée, JMC10, Toulouse (France), 28 aout -1 septembre 2006
- [28] “Néel-Brown depinning probability law of a nanometric magnetic domain wall”  
**J.P. Attané**, D. Ravelosona, Y. Samson, A. Marty, C. Chappert  
JEMS'06. III Joint European Magnetic Symposia“, San Sebastian, Spain, 26-30 Juin 2006
- [29] *Invited*  
“Electric field activation of metal magnetism”  
**J.P. Attané**, D. Givord, M. Weisheit, A. Marty, Y. Souche, P. Warin  
52nd Magnetism and Magnetic Materials Conference , MMM Tampa 2007-10-25, USA
- [30] “Magnetic domain wall propagation in nanostructures of alloys with perpendicular magnetic anisotropy”  
A. Masseboeuf, JC Pillet, **J.P. Attané**, L. Vila, G. Gaudin, A. Marty and P. Bayle-Guillemaud  
European Microscopy Congress, Aachen, 1-5 Septembre 2008
- [31] “Electron-magnon scattering and magnetization switching detection in perpendicularly magnetized thin films and nanowires”  
A. Mihai, C. Beigné, A. Marty, L. Vila, P. Warin, Y. Samson, **J.P. Attané**  
Spinswitch workshop Krakow 3 – 5 Septembre 2008
- [32] “Thermally and spin-torque assisted domain wall depinning from a single defect in FePt monolayers and spinvalves”  
A. Mihai, **J.P. Attané**, L. Vila, A. Marty  
MMM Austin 11-14 Novembre 2008
- [33] “Diffusion électron-magnons dans les couches minces à aimantation perpendiculaire et détection du renversement d'aimantation”  
A. Mihai, **J.P. Attané**, C. Beigné, A. Marty  
Colloque Louis Néel, La Grande Motte, 30 septembre- 4 Octobre 2008

- [34] “Electron-magnon scattering and magnetization switching detection in FePt thin films and nanostructures”  
A. Mihai, **J.P. Attané**, A. Marty, L. Vila, J. C. Pillet, C. Beigné, P. Warin, Y. Samson  
 MMM Austin 11-14 Novembre 2008
- [35] “Magnetization reversal dominated by domain wall pinning in FePt based spin-valves”  
A. Marty, A. Mihai, **J.-P. Attané**, L. Vila, J.C. Pillet, C. Beigné  
 The International Conference on Magnetism, Karlsruhe, Germany, 26-31 Juillet 2009
- [36] “Thermally and spin-torque assisted domain wall depinning from a single defect in FePt monolayers and spin-valves”  
A. Mihai, **J.-P. Attané**, A. Marty, L. Vila, J.C. Pillet, C. Beigné  
 EUROMAT 2009, 7-10 Septembre 2009: SECC, Glasgow, UK
- [37] “Electron-magnon scattering and magnetization reversal in FePt thin films and nanostructures”  
A. Mihai, **J.-P. Attané**, A. Marty, L. Vila, J.C. Pillet, C. Beigné, P. Warin  
 EUROMAT 2009, 7-10 Septembre 2009: SECC, Glasgow, UK
- [38] “Invasion percolation universality class and fractal geometry of magnetic domains”  
P. Warin, **J. P. Attané**, M. Tissier, L. Vila, A. Marty, J.-C. Pillet  
 EUROMAT 2009, 7-10 Septembre 2009: SECC, Glasgow, UK
- [39] “Thermal activated depinning under Field and current in wires with perpendicular anisotropy”  
F. Garcia-Sanchez, L.D. Buda-Prejbeanu, H. Szabolics, A.P. Mihai, **J.P. Attané**, L. Vila, A. Marty, J.C. Toussaint  
 Hysteresis Modeling and Micromagnetics 2009, NIST, Gaithersburg, Maryland, USA, 11-14 mai 2009
- [40] “Non-adiabatic spin-torques in narrow magnetic domain walls.”  
D. Ravelosona, C. Burrowes, A.P. Mihai, J.V. Kim, S. Park, C. Chappert, L. Vila, A. Marty, F. Garcia-Sanchez, L.D. Buda-Prejbeanu, I. Tudosa, E.E. Fullerton, **J.P. Attané**  
 2010 IEEE Joint Intermag-MMM, 18-22 Janvier 2010
- [41] “Non adiabatic spin-torques in narrow magnetic domain walls”  
 C.Burrowes, A.P. Mihai, D. Ravelosona, J.V. Kim, C. Chappert, L. Vila, A. Marty, Y. Samson, F. Garcia-Sanchez, L.D. Buda-Prejbeanu, I. Tudosa, E.E. Fullerton, **J.P. Attané**,  
 Fourth Seeheim Conference on Magnetism. 28 Mars-1 Avril 2010, Frankfurt, Germany
- [42] *Invited*

“Recent development in current induced domain wall motion in nanodevices with perpendicular anisotropy”

D. Ravelosona, S. Park, M. Ngoc, N. Lei, J. Kim, T. Devolder, N. Vernier, W. Zhao, J. Klein, C. Chappert, S. Mangin, **J.P. Attané**, L. Vila, A. Kent, D. Bedeau, E. Shipton and E. Fullerton.

55<sup>th</sup> Magnetism and Magnetic Materials Conference (MMM), 14-18 Novembre 2010, Atlanta, USA

[43] *Invited*

“Spin-transfer effects in FePt nanowires with narrow magnetic domain walls”

**J. P. Attané**, V. Nguyen, C. Burrowes, A.P. Mihai, A. Marty, J. Kim, D. Ravelosona, F. Garcia-Sanchez, L.D. Buda-Prejbeanu and L. Vila.

55<sup>th</sup> Magnetism and Magnetic Materials Conference (MMM), 14-18 Novembre 2010, Atlanta, USA

[44] “Spin signal in metallic lateral spin valves (LSV) made by a multiangle shadow evaporation technique”

P.Laczkowski, L. Vila, **J. P. Attané**, A. Marty, C. Beigné, L. Notin

Intermag, Taipei, Taiwan, 24-29 April 2011

[45] “Electron-magnon interaction as a new way to detect magnetization reversal and domain wall position in nanowires”

V. D. Nguyen, L. Vila, A. Marty, P. Laczkowski, J.C. Pillet, T. Faivre, C. Beigné, P. Warin, M. Jamet, **J. P. Attané**

Recent Trends in Nanomagnetism, Spintronics and their Applications (RTNSA), Pay Basque, Spain, 1– 4 June, 2011

[46] “Pure spin currents in multiterminal spintronics nanodevices.”

P. Laczkowski; L. Vila; M. Cubukcu, W. S. Torres, **J.-P. Attané**; A. Marty; C. Beigné;; L. Notin

Colloque Louis Néel (Brest), 20-23 septembre 2011

[47] “Détection du renversement d'aimantation dans une nanostructure utilisant la contribution des magnons à la résistivité”

V. D. Nguyen, C. Naylor, L. Vila, A. Marty, P. Laczkowski, J.C. Pillet, T. Faivre, C. Beigné, P.

Warin, M. Jamet, **J. P. Attané**

Colloque Louis Néel (Brest), 20-23 septembre 2011

[48] “Courants de spin dans des dispositifs multi-terminaux”

L. Vila, P. Laczkowski, **J.P. Attané**, A. Marty, W. Saverro Torres, J.C Rojas Sanchez, M. Cubukcu, V.D. Nguyen

GDR of mesoscopic physics (Aussois, France), 5 - 8 décembre 2011

- [49] *Invited*  
 “Spin injection in metal based lateral nanostructures”  
P.Laczkowski, L. Vila, M. Cubukcu, W. S. Torres, **J.-P. Attané**, A. Marty, C. Beigné, V-D.Nguyen, L. Notin  
 SPIE Optics and Photonics, 21-25 August 2011, San Diego, California, USA
- [50] “Hanle effect with in-plane magnetic fields in metallic lateral spin-valves  
J. C. Rojas Sánchez, P. Laczkowski, M. Cubukcu, W. Saverio Torres, L. Vila, A. Marty, M. Jamet, **J. P. Attané**  
 MSNOWS, les Houches, France, 5-10 February /2012, Magnetic Single Nano-Object Workshop&School
- [51] “Detection of domain wall position and magnetization reversal in nanostructures using the magnon contribution to the resistivity”  
V. D. Nguyen, L. Vila, A. Marty, C. Naylor, P. Laczkowski, C. Beigne, L. Notin, **J. P. Attané**  
 MSNOWS, les Houches, France, 5-10 February /2012, Magnetic Single Nano-Object Workshop&School
- [52] *Invited*  
 “Generation and enhancement of spin currents in metallic lateral nanostructures”  
L. Vila, P. Laczkowski, J.C. Rojas-Sanchez, W. Saverio-Torres, M. Cubukcu, C. Beigné, L. Notin, V.D. Nguyen, A. Marty, **J.P. Attané**  
 CIC nanoGUNE, San Sebastián (Spain), 22-24 of February, 2012
- [53] “Hanle effect with in-plane magnetic fields in metallic lateral spin valves”  
J. C. Rojas-Sanchez, P. Laczkowski, M. Cubukcu, W. Saverio Torres, L. Vila, A. Marty, M. Jamet, **J. P. Attané**  
 Intermag 2012, Vancouver (Canada), 7-11 May 2012
- [54] “Spin transfer effect in FePt nanowires: controlling the stochasticity of domain wall depinning using constrictions”  
V. D. Nguyen, L. Vila, A. Marty, L. Notin, C. Beigné, S. Pizzini, **J. P. Attané**  
 Intermag 2012, Vancouver (Canada), 7-11 May 2012
- [55] *Invited*  
 “Detection of domain wall position and magnetization reversal in nanostructure using the magnon contribution to the resistivity”  
V. D. Nguyen, L. Vila, C. Naylor, P. Laczkowski, A. Marty, T. Faivre, **J.P. Attané**  
 Intermag 2012, Vancouver (Canada), 7-11 May 2012
- [56] “Detection of domain wall position and magnetization reversal in nanostructures using the magnon contribution to the resistivity”  
**J. P. Attané**, V. D. Nguyen, A. Marty, P. Laczkowski, C. Beigne, L. Notin, M. Jamet, W. Saverio-torres, M. Cubukcu, L. Vila  
 19<sup>th</sup> International Conference on Magnetism, Busan, Korea, July 8-13, 2012

- [57] “Transition from spin injection into interface states to the channel in n-Ge”  
A. Jain, J. C. Rojas, M. Cubukcu, J. Peiro, J. C. Le Breton, E. Prestat, C. Vergnaud, L. Louahadj, C. Portemont, C. Ducruet, V. Baltz, A. Barski, P. Bayle-guillemaud, L. Vila, **J. P. Attané**, E. Augendre, S. Gambarelli, H. Jaffres, J. M. George, M. Jamet  
19<sup>th</sup> International Conference on Magnetism, Busan, Korea, July 8-13, 2012
- [58] *Invited*  
“Generation and enhancement of spin currents in metal based lateral nanostructures”  
P. Laczkowski, J. Rojas Sanchez, W.F. Savero Torres, M. Cubukcu, V.D. Nguyen, C. Beigné, L. Notin, C. Vergnaud, M. Jamet, A. Marty, **J. Attané**, L. Vila  
Joint European Magnetic Symposia JEMS2012, 9-14 septembre 2012, Parme, Italy
- [59] “Nanoscale investigation of domain wall pinning and its pinning site “  
A Masseboeuf, VD Nguyen, V Salvador, A. Béch , P Bayle, L Vila, A Marty, **J. P. Attané**  
The 15th European Microscopy Congress, Manchester Central, United Kingdom, 16-21 September 2012
- [60] *Invited*  
“Temperature dependence of the spin Hall Effect in thin films”  
P. Laczkowski, J. Rojas Sanchez, M. Cubukcu, W. Savero Torres, **J. P. Attané**, A. Marty, M. Jamet, S. Gambarelli, G. Desfonds, C. Deranlot, J.M George, H. Jaffr s, A. Fert, T. Kimura, Y. Niimi, Y. Otani, L. Vila  
14th WE-Heraeus Seminar, August 21 - 25, 2012, Bad Honnef, Germany
- [61] “Transition from spin accumulation into interface states to spin injection in the Ge conduction band”  
M. Jamet, A. Jain, C. Vergnaud, J. Peiro, J. Le Breton, E. Prestat, L. Louahadj, C. Portemont, C. Ducruet, V. Baltz, A. Marty, A. Barski, P. Bayle-Guillemaud, L. Vila, **J. P. Attané**, E. Augendre, H. Jaffr s, J. George  
12th Joint MMM/Intermag Conference, 14–18 January, 2013, Chicago, Illinois, USA
- [62] “Interfacial and inverse spin Hall effect: detection by spin pumping-ferromagnetic resonance”  
J. C. Rojas S nchez, N. Reygen, P. Laczkowski, W. Savero-Torres, M. Cubukcu, L. Notin, C. Beigné, C. Vergnaud, A. Marty, M. Jamet, G. Desfond, S. Giambarelli, C. Deranlot, J.-M. George, H. Jaffres, **J. P. Attané**, J.M. de Teresa, L. Vila, A. Fert  
Colloque Louis N el 2013, Tour, France, Mars 2013
- [63] “Lateral spin valves with graphene spin channels”  
M. Cubukcu, M-B. Martin, C. Vergnaud, P. Laczkowski, A. Marty, S. Auffret, C. Deranlot, P. Seneor, M. Anane, **J. P. Attané**, L. Vila, A. Fert, M. Jamet  
Colloque Louis N el 2013, Tour, France, Mars 2013
- [64] “Interplay between spin currents and magnetic domain walls in lateral spin valves”  
W. Savero Torres, P.  czkowski, V. D. Nguyen, J-C. Rojas Sanchez, M. Cubukcu, A. Marty, L. Notin, C. Beigné, C. Vergnaud, M. Jamet, L. Vila, **J. P. Attané**



Colloque Louis Néel 2013, Tour, France, Mars 2013

- [65] “Spin Transport in Graphene-Based Lateral Spin Valves”  
M. Cubukcu, M. Martin, P. Laczowski, C. Vergnaud, A. Marty, C. Beigné, L. Notin, **J. P. Attané**, L. Vila, P. Seneor, M. Anane, C. Deranlot, S. Auffret, A. Fert, M. Jamet  
12th Joint MMM/Intermag Conference, 14–18 January, 2013, Chicago, Illinois, USA
- [66] “Switchable spin-current source controlled by magnetic domain walls”  
W. Savero-Torres, P. Laczowski, V. Nguyen, J. Rojas Sanchez, L. Vila, A. Marty, C. Beigné, L. Notin, M. Jamet, **J. P. Attané**  
58<sup>th</sup> Annual Conference on Magnetism and Magnetic Materials (MMM), 4–8 November 2013, Denver, Colorado, USA
- [67] “Spin Signal in various Lateral Spin Valves”  
M. Cubukcu, J.-C. Rojas-Sanchez, P. Laczowski, C. Vergnaud, L. Vila, **J.-P. Attané**, A. Marty, M. Jamet  
International conference on Nanoscale Magnetism', 2-6 September 2013, Istanbul, Turquie
- [68] *Invited*  
“Spin-orbitronics”  
A. Fert, V. Cros, C. Deranlot, J.-M. George, J. Grollier, H. Jaffres, N. Reyren, J. Sampaio, Y. Kawanishi, Y. Niimi, Y. Otani, D.-H. Wei, M. Chshiev, H.-X. Yang, T. Valet, **J.P. Attané**, P. Laczowski, J.C. Rojas Sanchez, L. Vila, A.V. Khvalkovskiy, J.-M. De Teresa, P.M. Levy  
International Workshop on Spin-Orbit Torque, 24-26 February 2013, King Abdullah University of Science and Technology, Saudi Arabia
- [69] *Invited*  
“Spin-orbitronics with skyrmions, spin Hall and Rashba effects”  
A. Fert, V. Cros, C. Deranlot, J.-M. George, J. Grollier, H. Jaffrès, N. Reyren, J. Sampaio, Y. Kawanishi, Y. Niimi, Y. Otani, D.-H. Wei, M. Chshiev, S. Rohart, A. Thiaville, H.-X. Yang, **J.-P. Attané**, P. Laczowski, J.C. Rojas Sanchez, L. Vila, A.V. Khvalkovskiy, J.-M. de Teresa and P.M. Levy  
International French-US Workshop, 08-12 July 2013, CMRR, San Diego (USA)
- [70] *Invited*  
“Dimensionality effects on the magnetization reversal, magnetoresistance and domain wall depinning process in nanowires”  
V. D. Nguyen, P. Laczowski, W. F. Savero Torres, A. P. Mihai, L. Notin, C. Beigné, A. Marty, **J.P. Attané**, L. Vila  
International French-US Workshop, 08-12 July 2013, CMRR, San Diego (USA)
- [71] *Invited*  
“Charge to spin current conversion at interfaces”  
J.C. Rojas Sanchez, L. Vila, V. D. Nguyen, G. Desfonds, P. Laczowski, S. Gambarelli, **J.P. Attané**, J.M. De Teresa, C. Magen, A. Fert

French-Japan Workshop on spintronics, Orsay, November 2013

- [72] *Invited*  
"Charge to spin current conversion at interfaces"  
L. Vila, J.C. Rojas-Sanchez, W. Savero-Torres, P. Laczkowski, M. Cubuckcu, C. Beigne, L. Notin, V. D. Nguyen, A. Marty, C. Vergnaud, M. Jamet, **J. P. Attané**, J. M. de Teresa, A. Fert  
14th REIMEI Workshop on Spin Currents and Related Phenomena ILL, Grenoble, France, February 10-13, 2014
- [73] "Large extrinsic spin hall effect in AuW7%"  
P. Laczkowski, J.C. Rojas-Sánchez, W. Savero-Torres, N. Reyren, C. Deranlot, J. M. George, H. Jaffrès, C. Notin, C. Beigné, A. Marty, **J.P. Attané**, L. Vila, and A. Fert  
16ème édition du colloque Louis Néel, Septembre 2014 Autrans
- [74] "Efficient spin to charge current conversion using Spin Hall or Rashba effects"  
J.-C. Rojas-Sánchez, L. Vila, W. Savero-Torres, P. Laczkowski, **J.-P. Attane**, N. Reyren, C. Deranlot, J.-M. De Teresa, M. Jamet, H. Jaffres, J.-M. George, and A. Fert  
16ème édition du colloque Louis Néel, Septembre 2014 Autrans
- [75] "Current assisted domain wall depinning in CoFeB-MgO wires with perpendicular anisotropy"  
L. Herrera Diez, L. Vila, F. Garcia-Sanchez, J.-P. Tetienne, T. Hingant, V. Jacques, B. Ockert and D. Ravelosona  
16ème édition du colloque Louis Néel, Septembre 2014 Autrans
- [76] "Spin injection and dynamics in p-doped Germanium"  
F. Rortais, P. Laczkowski, S. Oyarzun, J.-C. Rojas-Sanchez, N. Reyren, C. Vergnaud, A. Marty, C. Beigné, **J.-P. Attané**, L. Vila, G. Desfonds, S. Gambarelli, H. Jaffrès, J.-M. George, M. Jamet  
Condensed Matter in Paris, CMD25-JMC14, August 24-29 2014.
- [77] "Spin pumping and inverse spin Hall effect in germanium"  
J.-C. Rojas Sánchez, C. Vergnaud, L. Vila, **J.P. Attané**, A. Marty, H. Jaffres, M. Jamet, and J.-M. George  
APS March Meeting 2014, Monday–Friday, March 3–7, 2014; Denver, Colorado
- [78] "Spin to charge conversion using Rashba coupling at the interface between non-magnetic materials"  
J.C. Rojas Sanchez, L. Vila, G. Desfonds, S. Gambarelli, **J. P. Attané**, J.M. De Teresa, C. Magen, A. Fert  
APS March Meeting 2014, Monday–Friday, March 3–7, 2014; Denver, Colorado

- [79] "Switchable spin-current source controlled by magnetic domain walls"  
W. S. Torres, L. Vila, A. Marty, P. Laczkowski, V. D. Nguyen, J. C. R. Sanchez, C. Vergnaud, C. Beigne, L. Notin, M. Jamet, **J. P. Attané**  
IEEE International Magnetism Conference, INTERMAG 2014, Dresden, Germany, May 4<sup>th</sup>- 8<sup>th</sup>, 2014
- [80] "Spin to charge conversion using the Rashba coupling at the interface between Silver and Bismuth"  
J.C. Rojas Sanchez, L. Vila, G. Desfonds, S. Gambarelli, **J. P. Attané**, J.M. De Teresa, C. Magen, A. Fert  
IEEE International Magnetism Conference, INTERMAG 2014, Dresden, Germany, May 4<sup>th</sup>- 8<sup>th</sup>, 2014
- [81] "Spin Pumping and Inverse Spin Hall Effect in Platinum: The Essential Role of Spin-Memory Loss at Metallic Interfaces"  
J.-C. Rojas-Sanchez, N. Reyren, P. Laczkowski, W. Savero, **J. P. Attané**, C. Deranlot, M. Jamet, J.-M. George, L. Vila, H. Jaffres  
IEEE International Magnetism Conference, INTERMAG 2014, Dresden, Germany, May 4<sup>th</sup>- 8<sup>th</sup>, 2014
- [82] "Detection of domain wall position and magnetization reversal in nanostructures using the magnon contribution to the resistivity"  
V. D. Nguyen, L. Vila, A. Marty, P. Laczkowski, W. Savero-Torres, C. Beigne, L. Notin, C. Vergnaud, M. Jamet, **J. P. Attané**  
IEEE International Magnetism Conference, INTERMAG 2014, Dresden, Germany, May 4<sup>th</sup>- 8<sup>th</sup>, 2014
- [83] *Invited*  
"Spin pumping and spin-orbit effects in Si and Ge"  
S. Oyarzun, F. Rortais, J.-C. Rojas-Sanchez, P. Laczkowski, N. Reyren, C. Vergnaud, L. Vila, **J. P. Attané**, C. Beigné, C. Ducruet, G. Desfonds, S. Gambarelli, A. Marty, H. Jaffrès, J.-M. George, M. Jamet  
SPIE San Diego, California, 17-21 August 2014
- [84] *Invited*  
"Charge to spin current conversion at interfaces"  
J. C. Rojas Sanchez, L. Vila, G. Desfonds, S. Gambarelli, **J.P. Attané**, J. M. De Teresa, C. Magén, A. Fert  
Reimei Workshop on spin currents, Grenoble, February 2014
- [85] *Invited*

- "Spin to charge current conversion using rashba coupling at the interface between nonmagnetic materials"  
J. C. Rojas Sanchez, L. Vila, G. Desfonds, S. Gambarelli, **J.P. Attané**, J. M. De Teresa, C. Magén, A. Fert  
Moscow International Symposium on Magnetism MISM-2014, Moscow, July 2014
- [86] *Invited*  
"Spin to charge current conversion using spin Hall and Rashba effects"  
J. C. Rojas Sanchez, L. Vila, G. Desfonds, S. Gambarelli, **J.P. Attané**, J. M. De Teresa, C. Magén, A. Fert  
59<sup>th</sup> Magnetism and magnetic materials conference, Honolulu, 3-7 november 2014
- [87] "Spin current sources and detectors based on magnetic domain walls"  
W. Savero Torres, L. Vila, P. Łaczkowski, A. Marty, V. D. Nguyen, J-C Rojas Sanchez, C. Vergnaud, C. Beigné, L. Notin, M. Jamet, V. Pham, and **J-P. Attané**  
59th Magnetism and magnetic materials conference, Honolulu, 3-7 november 2014
- [88] "Magnon contribution to the resistivity as a mean to detect domain wall position and magnetization reversal in nanostructures"  
V. D. Nguyen, L. Vila, W Savero Torres, A. Marty, P. Laczkowski, L. Notin, C. Beigné, C. Vergnaud, M. Jamet and **J. P. Attané**  
59th Magnetism and magnetic materials conference, Honolulu, 3-7 november 2014
- [89] "Spin to charge conversion using Rashba coupling at the interface between non-magnetic materials"  
J. C. Rojas Sanchez, L. Vila, G. Desfonds, S. Gambarelli, **J.P. Attané**, J. M. De Teresa, C. Magén, A. Fert  
APS March Meeting, Denver, 2014
- [90] "Spin pumping and inverse spin Hall effect in germanium"  
J.-C. Rojas Sanchez, C. Vergnaud, L. Vila, **J-P Attané**, A. Marty, H. Jaffrès, M. Jamet, J.-M. George  
APS March Meeting, Denver, 2014
- [91] "Spin to charge conversion using the Rashba coupling at the interface between Silver and Bismuth"  
J.C. Rojas Sanchez, L. Vila, G. Desfonds, S. Gambarelli, **J.P. Attane**, J.M. De Teresa, C. Magen, A. Fert  
Intermag Conference, Dresden, Germany, May 2014
- [92] "Detection of domain wall position and magnetization reversal in nanostructures using the magnon contribution to the resistivity"

- V. D. Nguyen, L. Vila, A. Marty, P. Laczkowski, W. Savero-Torres, C. Beigne, L. Notin, C. Vergnaud, M. Jamet, **J. P. Attane**  
Intermag Conference, Dresden, Germany, May 2014
- [93] "Switchable spin-current source controlled by magnetic domain walls"  
W. Savero Torres, L. Vila, A. Marty, P. Laczkowski, V. D. Nguyen, J. C. Rojas Sanchez, C. Vergnaud, C. Beigne, L. Notin, M. Jamet, **J. P. Attane**  
Intermag Conference, Dresden, Germany, May 2014
- [94] "Spin Pumping and Inverse Spin Hall Effect in Platinum: The Essential Role of Spin-Memory Loss at Metallic Interfaces"  
J.-C. Rojas-Sanchez, N. Reyren, P. Laczkowski, W. Savero, **J.-P. Attane**, C. Deranlot, M. Jamet, J.-M. George, L. Vila, H. Jaffres  
Intermag Conference, Dresden, Germany, May 2014
- [95] "Efficient spin to charge current conversion using Spin Hall or Rashba effects"  
J.-C. Rojas-Sanchez, L. Vila, W. Savero-Torres, P. Laczkowski, **J.-P. Attane**, N. Reyren, C. Deranlot, J. María De Teresa, M. Jamet, H. Jaffres, J. M. George, and A. Fert  
Conference on Physics and Applications of Spin Phenomena in Solids, PASPS VIII, Washington DC, July 2014
- [96] "Inverse spin Hall and Edelstein Rashba effects detected by ferromagnetic resonance technique"  
J.-C. Rojas-Sánchez, L. Vila, W. Savero-Torres, P. Laczkowski, **J.-P. Attane**, N. Reyren, C. Deranlot, J.-M. De Teresa, M. Jamet, H. Jaffres, J.-M. George, and A. Fert  
Magnetic single object workshop and school, Nancy, September 2014
- [97] *Invited*  
"Domain walls and pure spin currents in lateral nanostructures"  
W. Savero Torres, L. Vila, A. Marty, P. Łaczkowski, V. D. Nguyen, J. C. Rojas Sanchez, Y. Fu, G. Zahnd, P.V. Tuong, C. Vergnaud, C. Beigné, L. Notin, M. Jamet, **J. P. Attané**  
7th International Workshop on Advanced Materials Science and Nanotechnology, IWAMSN 2014, Hanoi Vietnam, November 2014 (Invited)
- [98] "Large Extrinsic Spin Hall Effect in AuW alloy"  
P. Laczkowski; J. Rojas-Sánchez; W. Savero-Torres; N. Reyren; H. Jaffrès; C. Deranlot; J. George; L. Notin; C. Beigné; A. Marty; **J.P. Attané**; L. Vila; A. Fert  
59th Magnetism and magnetic materials conference, Honolulu, 3-7 november 2014
- [99] *Invited*  
"Spin pumping and inverse spin Hall effect in Platinum and other 5d metals: the essential role of spin memory loss at metallic interfaces"

- N. Reyren, J. C. Rojas-Sánchez, P. Laczkowski, W. Savero, **J. P. Attané**, C. Deranlot, M. Jamet, J.-M. George, L. Vila, H. Jaffrès  
SPIE San Diego, California, 17-21 August 2014
- [100] "Spin-orbitronics: spin to charge current conversion probed by spin pumping ferromagnetic resonance"  
J.C. Rojas Sánchez, L. Vila, **J.P. Attané**, W. Savero Torres, M. Jamet, G. Desfond, S. Gambarelli, J.M. de Teresa, P. Laczkowski, C. Deranlot, N. Reyren, H. Jaffres, JM George, A. Fert  
NANOSECQO conference 2014, Paris, January 2014
- [101] *Invited*  
"Efficient Spin-to-Charge Conversion at LaAlO<sub>3</sub>/SrTiO<sub>3</sub> Interfaces"  
E. Lesne, J.C. Rojas-Sánchez, S. Oyarzun, F. Yu, N. Reyren, E. Jacquet, V. Cros, G. Desfonds, S. Gambarelli, **J.P. Attané**, M. Jamet, J.-M. George, A. Fert, A. Barthélémy, L. Vila, H. Jaffrès, M. Bibes  
SPIE Optics+Photonics, San Diego, 9–13 August 2015
- [102] *Invited*  
"The role of interface states in the electrical and dynamical spin injection in silicon and germanium"  
F. Rortais, S. Oyarzun, J.-C. Rojas-Sanchez, P. Laczkowski, C. Vergnaud, C. Ducruet, C. Beigné, N. Reyren, **J.-P. Attané**, L. Vila, G. Desfonds, S. Gambarelli, J. Widiez, H. Jaffrès, J.-M. George, M. Jamet  
SPIE Optics+Photonics, San Diego, 9–13 August 2015
- [103] "Pure spin currents"  
**J. P. Attané**  
Journée Spintronique à Grenoble, Lanef, 5 November 2015
- [104] "Spin-to-Charge conversion in 2d electron gas at LaAlO<sub>3</sub>/SrTiO<sub>3</sub> Interfaces"Y. Fu, E. Lesne, J.C. Rojas-Sánchez, S. Oyarzun, N. Reyren, E. Jacquet, V. Cros, G. Desfonds, S. Gambarelli, **J.P. Attané**, M. Jamet, J.M. George, A. Fert, A. Barthélémy, L. Vila, H. Hares, M. Bibes  
20<sup>th</sup> International Conference on Magnetism (ICM), Barcelona, 5<sup>th</sup>-10<sup>th</sup> July 2015
- [105] "Spin pumping and spin-orbit effects in Ge"  
S. Oyarzun, F. Rortais, J.-C. Rojas-Sanchez, P. Laczkowski, N. Reyren, C. Vergnaud, L. Vila, **J.-P. Attané**, C. Beigné, C. Ducruet, S. Gambarelli, J. Widiez, A. K. Nandy, S. Blügel, H. Jaffrès, J.-M. George, M. Jamet  
20<sup>th</sup> International Conference on Magnetism (ICM), Barcelona, 5<sup>th</sup>-10<sup>th</sup> July 2015
- [106] "Group-IV magnetic semiconductors and spin injection in silicon, germanium"  
F. Rortais, S. Oyarzun, J.-C. Rojas-Sanchez, P. Laczkowski, A. Barski, C. Vergnaud, C. Ducruet, C. Beigné, N. Reyren, **J.-P. Attané**, L. Vila, G. Desfonds, S. Gambarelli, J. Widiez, H. Jaffrès, J.-M. George, M. Jamet

Workshop "Advances in Modern Magnetic Materials", Diamond, Great Britain, June 2014

- [107] "Large extrinsic spin Hall effect in AuW7%"  
P. Laczkowski, J.C. Rojas-Sánchez, W. Savero-Torres, N. Reyren, C. Deranlot, J.M. George, H. Jaffrès, L. Notin, C. Beigné, A. Marty, **J.P. Attané**, L. Vila, A. Fert  
EMN conference, San Sebastian (Spain) 2015
- [108] "Switchable spin-current source controlled by magnetic domain walls"  
W. Savero-Torres, P. Laczkowski, V. Nguyen, J. Rojas Sanchez, L. Vila, A. Marty, C. Beigné, L. Notin, M. Jamet, **J.P. Attané**  
22nd Inter. Colloquium on Magnetic Films and Surfaces (ICMFS), Poland, Cracow, July 2015
- [109] *Invited*  
"Looking for efficient spin-charge current conversion using spin orbit coupling"  
L. Vila, J.C. Rojas Sánchez, L. Vila, W. Savero Torres, M. Jamet, **J.P. Attané**, G. Desfond, S. Gambarelli, J.M. de Teresa, P. Laczkowski, C. Deranlot, N. Reyren, H. Jaffres, JM George, A. Fert  
Safed Spintronics Workshop, Safed, Israel, 10<sup>th</sup> March 2015
- [110] *Invited*  
"Two dimensional spin-orbitronics with Rashba, topological insulator, oxide and DMI interfaces"  
A. Fert, A.Barthélémy, M. Bibes, K. Bouzouane, V. Cros, C. Deranlot, K. Garcia, J-M. George, H.Jaffres, E. Lesne, C Moreau-Luchaire, N. Reyren, J-C Rojas-Sánchez, N. Van Horne, **J.P. Attané**, G. Desfond, Y. Fu *et al.* Workshop on Topological Spintronics & Skyrmionics, October, 2015, Grenoble, Plenary talk
- [111] "Spin pumping and spin-orbit effects in Ge"  
S. Oyarzun, J. C. Sanchez, P. Laczkowski, A. Ferrari, C. Vergnaud, C. Ducruet, C. Beigné, N. Reyren, A. Marty, **J.P. Attané**, L. Vila, S. Gambarelli, J. Widiez, F. Ciccacci, H. Jaffrès, J. M. George, M. Jamet  
Latin American Symposium on solid state physics, November 30th-December 4th, Puerto Varas, Chile (2015)
- [112] *Invited*  
"Spin-memory loss effects in spin-pumping experiments"  
H. Jaffrès, J. C. Rojas-Sanchez, N. Reyren, P. Laczkowski, W. Savero, **J. P. Attané**, C. Deranlot, M. Jamet, J. M. George, L. Vila  
APS March Meeting, San Antonio Texas, 02-06 March 2015
- [113] *Invited*  
"Experiments of spin-to-charge current conversion in Rashba type or topological insulator interface"

- J. C. Rojas-Sánchez, Vila, **J.-P. Attané**, Y. Fu, S. Oyarzun, A. Marty, M. Jamet, Desfond, S. Gambarelli, J.M. De Teresa, P. Laczkowski, Ohtsubo, A. Taleb, N. Reyren, H. Jaffrès, J.-M. George and A. Fert  
Spin-orbit coupling in surface or interface states, 8-12 June 2015, Spetses, Greece.
- [114] "Spin pumping and spin-orbit effects in Ge »  
S. Oyarzun, J. C. Sanchez, P. Laczkowski, A. Ferrari, C. Vergnaud, C. Ducruet, C. Beigné, N. Reyren, A. Marty, **J.P. Attané**, L. Vila, S. Gambarelli, J. Widiez, F. Ciccacci, H. Jaffrès, J. M. George, M. Jamet  
20th International Conference on Magnetism, Barcelona, Spain, July 2015
- [115] "Spin-to-Charge Conversion in 2D Electron Gas at LaAlO<sub>3</sub>/SrTiO<sub>3</sub> Interfaces »  
Y. Fu et al.  
20th International Conference on Magnetism, Barcelona, Spain, July 2015
- [116] "Spin-orbitronics: Investigation of the spin- to-charge current conversion by a topological insulator"  
J.C. Rojas-Sánchez et al.  
20th International Conference on Magnetism, Barcelona, Spain, July 2015
- [117] "Switchable spin current source controlled by magnetic domain walls »  
W. Saverio-Torres, ..., J. P. Attané  
22nd Inter. Colloquium on Magnetic Films and Surfaces (ICMFS), Poland, Cracow, July 2015
- [118] *Invited*  
"The role of interface states in the electrical and dynamical spin injection in silicon and germanium"  
M. Jamet et al.  
SPIE NanoScience + Engineering, August 2015 San Diego
- [119] *Invited*  
"Efficient spin-to-charge conversion at LaAlO<sub>3</sub>/SrTiO<sub>3</sub> interfaces"  
Edouard Lesne et al.  
SPIE NanoScience + Engineering, August 2015 San Diego
- [120] "Spin pumping and spin-orbit effects in Ge"  
S. Oyarzun, J. C. Sanchez, P. Laczkowski, A. Ferrari, C. Vergnaud, C. Ducruet, C. Beigné, N. Reyren, A. Marty, **J.P. Attané**, L. Vila, S. Gambarelli, J. Widiez, F. Ciccacci, H. Jaffrès, J. M. George, M. Jamet  
Latin American Symposium on solid state physics (2015)



- [121] "Spin Hall effect in AuW alloys"  
P. Laczkowski, J. Rojas Sanchez, Y. Fu, W. Savero Torres, N. Reyren, C. Deranlot, J. George, H. Jaffrès, L. Notin, C. Beigné, A. Marty, **J. Attané**, L. Vila and A. Fert  
 MMM | INTERMAG 2016 JOINT CONFERENCE, January 2016, San Diego
- [122] "Spin-to-charge inter-conversion device and its application to the characterization of the spin Hall effect"  
V. T. Pham, L. Vila, G. Zhand, A. Marty, W. Savero-Torres, M. Jamet, L. Notin, C. Beigné, F. Rortais, C. Vergnaud, and **J.-P. Attané**  
 17<sup>ème</sup> colloque Louis Néel, Saint-Dié-des-Vosges, Mars 2016
- [123] "Electrical spin injection in semiconductors: beyond the controversy for Si and Ge"  
F. Rortais, P. Laczkowski, S. Oyarzun, A. Ferrari, J.-C. Rojas-Sanchez, N. Reyren, C. Vergnaud, A. Marty, C. Beigné, C. Ducruet, C. Portemont, J. Widiez, **J.-P. Attané**, L. Vila, S. Gambarelli, H. Jaffrès, J.-M. George, M. Jamet  
 17<sup>ème</sup> colloque Louis Néel, Saint-Dié-des-Vosges, Mars 2016
- [124] "Large spin signals in metallic lateral spin-valves made with Co<sub>60</sub>Fe<sub>40</sub> electrodes"  
G. Zahnd, L. Vila, V.T. Pham, A. Marty, P. Laczkowski, W. Savero Torres, C. Beigne, C. Vergnaud, M. Jamet et **J.-P. Attané**  
 17<sup>ème</sup> colloque Louis Néel, Saint-Dié-des-Vosges, Mars 2016
- [125] *Invited*  
 "Pure spin currents manipulation in lateral nanostructures »  
Gilles ZAHND; Van Tuong PHAM; Piotr Laczkowski; Williams Savero Torres; Alain Marty; Cyrille Beigne; Laurent Vila; **Jean-Philippe Attane**  
 EMN 2016 Croatia, May
- [126] « Ferromagnetic/nonmagnetic nanostructures for the electrical measurement of the Spin Hall effect"  
Van Tuong Pham; Laurent Vila; Gilles ZAHND; Alain Marty; Paul Noël; Williams Savero-Torres; **Jean-Philippe Attane**  
 61<sup>st</sup> Magnetism and Magnetic Materials conference, New Orleans, USA, November 2016
- [127] "Giant Magnetoresistance in excess of 10 % in metal based lateral spin valves"  
Gilles ZAHND; Van Tuong PHAM; Piotr Laczkowski; Williams Savero Torres; Alain Marty; Cyrille Beigne; Laurent Vila; **Jean-Philippe Attane**  
 61<sup>st</sup> Magnetism and Magnetic Materials conference, New Orleans, USA, November 2016
- [128] "Topological Insulator and Rashba interfaces for efficient conversion between spin and charge currents at room temperature: experiments, modeling and device perspectives"

Albert Fert, Alain Barthelemy, Manuel Bibes, Jean-Marie George, Eric Jacquet, Henri Jaffres, Erick Lesne, Nicolas Reyren, Juan-Carlos Rojas Sanchez, Diogo Vaz, **Jean-Philippe Attane**, Gérard Desfond, Yu Fu, *et al.*

International Workshop and School on Spin transfer IWST, September, Nancy 2016

- [129] “Large and tunable spin Hall angles in gold based alloys”  
Juan-Carlos Rojas-Sanchez; Piotr Laczkowski; Yu Fu; Paul Noël; Nicolas REYREN; Cyrille Deranlot; Sophie Collin; Alain Marty; Patrick Warin; **Jean-Philippe Attane**; henri JAFFRES; Jean-Marie George; Laurent Vila; Albert Fert  
61<sup>st</sup> Magnetism and Magnetic Materials conference, New Orleans, USA, November 2016
- [130] “High Efficiency Pure Spin Current Driven Domain Wall Depinning in Geometrically Tailored Non-Local Spin Valves”  
R.M. Reeve, A. Pfeiffer, M. Voto, S. Hu, W. Savero-Torres, N. Richter, A. Kronenberg, M. Jourdan, L. Vila, **J. Attané**, L. Lopez-Diaz, T. Kimura and M. Kläui  
Intermag 2017, April, Dublin (Ireland)
- [131] “Giant Magnetoresistance exceeding 10 % in metal based lateral devices”  
G. Zahnd, V. Pham, A. Marty, L. Vila and **J.P Attané**  
Intermag 2017, April, Dublin (Ireland)
- [132] “Efficient and tunable spin-to-charge conversion through Rashba coupling at LaAlO<sub>3</sub>/SrTiO<sub>3</sub> interfaces”  
E. Lesne, Y. Fu, P. Noel, S. Oyarzun, J. Rojas-Sanchez, D. Vaz, H. Naganuma, G. Sicoli, **J. Attané**, M. Jamet, E. Jacquet, J. George, H. Jaffres, A. Barthélémy, A. Fert, M. Bibès and L. Vila  
Intermag 2017, April, Dublin (Ireland)
- [133] “Effect of nanopatterning on magnetic texture in multilayers with lack of inversion symmetry”  
C. Bouard, P. Warin, V. Pham, **J. Attané**, L. Vila and A. Marty  
Intermag 2017, April, Dublin (Ireland)
- [134] *Invited*  
“Spin to charge current conversion at surfaces and interfaces of Rashba systems and 3D topological insulators studied by spin pumping ferromagnetic resonance”  
E. Lesne, Y. Fu, P. Noel, S. Oyarzun, C. Thomas, J. Rojas-Sanchez, D. Vaz, H. Naganuma, G. Sicoli, **J. Attané**, M. Jamet, E. Jacquet, J. George, H. Jaffres, A. Barthélémy, T. Meunier, P. Ballet, A. Fert, M. Bibès and L. Vila  
SPIE Nanoscience and Engineering, Spintronics Conference X, San Diego (USA), August, 2017.
- [135] *Invited*  
“Engineering spin accumulation and giant magnetoresistance in metallic nanostructures”

Gilles Zahnd, Laurent Vila, Van Tuong Pham, Paul Noël, Alain Marty, **Jean-Philippe Attané**  
SPIE Nanoscience and Engineering, Spintronics Conference X, San Diego (USA), August, 2017

- [136] *Invited*  
"Potential of topological materials for spintronic devices »  
A. Fert, ... , **J.P Attané**,... Magnetic frontiers: topological insulators, Nancy, France  
September 2017 (Plenary session)
- [137] "Highly efficient spin-to-charge current conversion at room temperature in strained HgTe surface states"  
P. Noel, C. Thomas, P. Ballet, L. Vila, T. Meunier, **J-P Attané**  
Magnetic frontiers: topological insulators, Nancy, France September 2017
- [138] "Spin conductance of YIG thin films driven from thermal to subthermal magnons regime by large spin-orbit torque."  
N. Thiery, A. Draveny, V. V. Naletov, L. Vila, **J.P. Attané**, C. Beigné, G. de Loubens, M. Viret, N. Beaulieu, J. Ben Youssef, V. E. Demidov, S. O. Demokritov, A. Anane, P. Bortolotti, V. Cros, O. Klein  
18ème colloque Louis Néel, Paris, September 2017
- [139] "Highly efficient spin-to-charge current conversion at room temperature in topological insulator strained HgTe"  
P. Noël, C. Thomas, T. Meunier, P. Ballet, L. Vila, **J.-P. Attané**  
18ème colloque Louis Néel, Paris, September 2017
- [140] "Spin-to-charge conversion by Rashba coupling in metallic states at the Fe/Ge(111) interface"  
S. Oyarzún, A.K. Nandy, F. Rortais, J.-C. Rojas-Sánchez, M.-T. Dau, P. Noël, P. Laczkowski, S. Pouget, H. Okuno, L. Vila, C. Vergnaud, C. Beigné, A. Marty, **J.-P. Attané**, S. Gambarelli, J.-M. George, H. Jaffrès, S. Blügel & M. Jamet  
SolSkymag conference 2017
- [141] *Invited*  
"Highly efficient spin-to-charge current conversion at room temperature in strained HgTe surface states"  
P. Noël, C. Thomas, T. Meunier, P. Ballet, L. Vila, **J.-P. Attané**  
ICM Singapour April 2018
- [142] *Invited*  
"Engineering lateral nanostructures for the study of spin accumulation phenomena, giant magnetoresistance, spin Hall effect, and sensors"  
Gilles Zahnd, Laurent Vila, Van Tuong Pham, Paul Noël, Alain Marty, **Jean-Philippe Attané**

ICM Singapour April 2018

## CONFERENCES: POSTERS

- [143] “Couches minces à faible anisotropie perpendiculaire en champ planaire, exemple de couches épitaxiales FePd”  
A. Marty, J. C. Toussaint, Y. Samson, **J.P. Attané**, B. Gilles, M. Belakhovsky, C. Chesnel, E. Dudzik, H. Dürr, G. van der Laan”  
Colloque Louis Néel, Dourdan (France), 8-9 mars 2001
- [144] “Domain wall resistance as a quantitative probe of magnetisation reversal”  
**J.P. Attané**, R. Danneau, Y. Petej, P. Warin, C. Beigne, C. Fermon, O. Klein, A. Marty, F. Ott, Y. Samson, M. Viret  
46th Conference on Magnetism and Magnetic Materials, Seattle (USA), 12-16 novembre 2001
- [145] Best Poster Award  
“Interaction de parois magnétiques avec des défauts bidimensionnels dans des couches minces de Fe<sub>50</sub>Pt<sub>50</sub>”  
**J.P. Attané**, D. Halley, A. Marty, Y. Samson, J.C. Toussaint, D. Ravelosona, F. Cayssol, C. Chappert  
Colloque Louis Néel, Gerardmer (France), 24-26 septembre 2002
- [146] “Géométrie fractale de domaines magnétiques, désordre et percolation dans un réseau de défauts : étude de couches minces de FePt/Pt”  
**J.P. Attané**, Y. Samson, A. Marty, A. Mougin, G. Dubois, J.C. Toussaint  
Colloque Louis Néel, Autrans (France), 17-19 mars 2004
- [147] “Quasi exponential law of the magnetic domain wall depinning from a natural defect”  
**J.P. Attané**, A. Marty, D. Ravelosona, Y. Samson, Claude Chappert  
10<sup>th</sup> Joint MMM / Intermag Conference, Baltimore (USA), 7-11 janvier 2007
- [148] “Diffusion électron-magnon et détection du renversement d’aimantation dans des couches à aimantation perpendiculaire”  
A. Mihai, **J.P. Attané**, A. Marty, C. Beigné, Y. Samson  
Colloque Louis Néel, Ecully (France), 14-16 mars 2007
- [149] “Elaboration et caractérisation de vannes de spin à aimantation perpendiculaire”  
A. Mihai, **J.P. Attané**, A. Marty, C. Beigné, Y. Samson  
Colloque Louis Néel, Ecully (France), 14-16 mars 2007
- [150] “Percolation, universality and fractal geometry of magnetic domains in thin FePt/MgO and FePt/Pt layers”  
**J.P. Attané**, A. Marty, M. Tissier, Y. Samson, H. Durand, A. Mougin, J.P. Jamet  
10<sup>th</sup> Joint MMM / Intermag Conference, Baltimore (USA), 7-11 janvier 2007

- [151] "Domain wall depinning over a single defect: the role of thermal activation"  
**J.P. Attané**, D. Ravelosona, Y. Samson, A. Marty, C. Chappert  
6<sup>th</sup> Innovative Mass Storage Technologies Conference, Enschede (Hollande), 18-20 juin 2007
- [152] "Fractal dimension of magnetic domains in FePt : Percolation and universality"  
**J.P. Attané**, Y. Samson, A. Marty, H. Durand, M. Tissier, P. Metaxas, A. Mougin and J. P. Jamet  
52nd annual conference on magnetism and magnetic materials, MMM Tampa 2007-10-25, USA
- [153] "Thermally and spin-torque assisted domain wall depinning from a single defect in FePt monolayers and spin-valves"  
A. Mihai, **J.-P. Attané**, L. Vila, A. Marty  
Magnetic Small Nano-Object Workshop and Workshop M-SNOWS 23-28 Novembre 2008, Nancy (France)
- [154] "Electron-magnon scattering and magnetization reversal in FePt thin films and nanostructures"  
A. Marty, A. Mihai, **J.P. Attané**, L. Vila, J.C. Pillet, C. Beigné  
The International Conference on Magnetism, Karlsruhe, Germany, July 26-31, 2009
- [155] "Magnetization reversal dominated by domain wall pinning in FePt based spin-valves"  
A. Mihai, **J.P. Attané**, L. Vila, C. Beigné, J.C. Pillet, A. Marty  
EUROMAT 2009, 7-10 Septembre 2009: SECC, Glasgow, UK
- [156] "Detection of magnetization reversal in fept nanostructures by magnon magnetoresistance measurements"  
V. D. Nguyen, L. Vila, T. Faivre, A. Marty, J.-C. Pillet, A. Mihai, C. Beigné, **J. P. Attané**  
Colloque Louis Néel (Albé, Alsace) 31 mars-2 avril 2010
- [157] "Spin current injection and detection in lateral spin valves" (prix meilleure affiche)  
P. Laczowski, L. Vila, **J.-P. Attané**, C. Beigné, J.-C. Pillet, A. Marty  
Colloque Louis Néel (Albé, Alsace) 31 mars-2 avril 2010
- [158] "Invasion percolation without trapping and magnetization reversal in FePt thin layers"  
**J. P. Attané**, M. Tissier, A. Marty and L. Vila.  
55<sup>th</sup> Magnetism and Magnetic Materials Conference (MMM), 14-18 Novembre 2010, Atlanta, USA

- [159] "Optimizing the spin signal of lateral spin valves"  
P. Laczkowski, **J.P. Attané**, A. Marty, C. Beigné, J. Pillet, S. Ferry, L. Notin, and L. Vila.  
55<sup>th</sup> Magnetism and Magnetic Materials Conference (MMM), 14-18 Novembre 2010,  
Atlanta, USA
- [160] "Precise detection of domain wall position in nanowires using magnon magnetoresistance measurements"  
P. Laczkowski, V. D. Nguyen, L. Vila, A. Marty, T. Faivre, J. C. Pillet, A. Mihai, Q. Riffard,  
L. Notin, J. F. Jacquot, C. Beigné and **J. P. Attané**  
Intermag, Taipei, Taiwan, 24-29 April 2011
- [161] Spin-transfer effects in FePt nanowires with narrow magnetic domain walls' (poster)  
P. Laczkowski, V. D. Nguyen, **J.P. Attané**, C. Burrowes, A. Mihai, D. Ravelosona, J. V.  
Kim, A. Marty, F. Garcia-Sanchez, L. Buda-Prejbeanu, L. Vila  
Intermag, Taipei, Taiwan, 24-29 April 2011
- [162] "Invasion percolation universality class and fractal geometry of magnetic domains"  
P. Laczkowski, M. Tissier, A. Marty, L. Vila, J. C. Pillet, C. Beigné, **J. P. Attané**  
Intermag, Taipei, Taiwan, 24-29 April 2011
- [163] "Detection of domain wall position in nanowires using magnon magnetoresistance measurements"  
V. Nguyen, L. Vila, A. Marty, T. Faivre, J. Pillet, A. Mihai, P. Laczkowski, Q. Riffard, L.  
Notin and **J. P. Attané**  
55<sup>th</sup> Magnetism and Magnetic Materials Conference (MMM), 14-18 Novembre 2010,  
Atlanta, USA
- [164] "Effets de transfert de spin dans des nanofils de FePt : stochasticité du piégeage des parois et constriction"  
V. D. Nguyen, L. Vila, A. Marty, C. Beigné, L. Notin, Pizzini, J. Vogel, **J. P. Attané**  
Colloque Louis Néel (Brest), 20-23 septembre 2011
- [165] "Effets de taille sur le renversement d'aimantation de nanofils de FePt à anisotropie perpendiculaire"  
V. D. Nguyen, L. Vila, A. Marty, J.C. Pillet, L. Notin, C. Beigné, S. Pizzini, J. Vogel, **J. P. Attané**  
Colloque Louis Néel (Brest), 20-23 septembre 2011
- [166] *Best Poster Award*

- “Switching magnetization of a ferromagnetic dot using non local spin injection by means of lateral spin valves structures”  
W. Saverio Torres, P.Laczkowski, M. Cubuku, J.C. Rojas sanchez, L. Vila, **J. P. Attané**, A. Marty, C. Beigné, L. Notin  
Colloque Louis Néel (Brest), 20-23 septembre 2011
- [167] “Thermally induced spin accumulation in silicon, germanium and diamond”  
C. Vergnaud, M. Jamet, O. Bourgeois, D. Tainof, J. Bousquet, E. Bustarret, **J. P. Attané**, L. Vila, C. Portemont, C. Ducruet, E. Augendre, H. Jaffrès, J.-M. George  
Colloque Louis Néel (Brest), 20-23 septembre 2011
- [168] “Dimensional effect on magnetization reversal process of FePt nanowires  
V. D. Nguyen, L. Vila, A. Marty, J.C. Pillet, L. Notin, C. Beigné, **J. P. Attané**, S. Pizzini and Jan Vogel “  
Recent Trends in Nanomagnetism, Spintronics and their Applications (RTNSA), Pay Basque, Spain, 1– 4 June, 2011
- [169] “Spin-transfer effects in FePt nanowires with narrow magnetic domain walls”  
V.D. Nguyen, **J. P. Attané**, C. Burrowes, A. Mihai, A. Marty, J. V. Kim, D. Ravelosona, F.S. Garcia, L. Buda-Prejbeanu, L. Vila  
Recent Trends in Nanomagnetism, Spintronics and their Applications (RTNSA), Pay Basque, Spain, 1– 4 June, 2011
- [170] “Spin signal in metallic lateral spin valves made by a multi-angle evaporation technique”  
P.Laczkowski, L. Vila, M. Cubukcu, W. S. Torres, **J.P. Attané**, A. Marty, C. Beigné, L. Notin  
Recent Trends in Nanomagnetism, Spintronics and their Applications (RTNSA), Pay Basque, Spain, 1– 4 June, 2011
- [171] “Precise detection of domain wall position in nanowires using magnon magnetoresistance measurements”  
P. Laczkowski, V. D. Nguyen, L. Vila, A. Marty, T. Faivre, J .C. Pillet, A. Mihai, Q. Riffard, L. Notin, J. F; Jacquot, C. Beigné and **J. P. Attané**  
IEEE International Magnetism Conference, Taipei, Taiwan, 24-29 April, 2011.
- [172] “Spin transfer effect in FePt nanowires: controlling the stochasticity of domain wall depinning using constrictions”  
**J. P. Attane**, V. D. Nguyen, A. Marty, J. C. Rojas Sánchez, C. Beigne, L. Notin, S. Pizzini, L. Vila  
MSNOWS, les Houches, France, 5-10 February /2012, Magnetic Single Nano-Object Workshop&School



- [173] "Spin signal in metallic lateral spin valves made by a multi-angle evaporation technique"  
L. Vila, P. Laczowski, M. Cubukcu, W. S. Torres, A. Marty, C. Beigné, L. Notin, **J. P. Attané**  
MSNOWS, les Houches, France, 5-10 February /2012, Magnetic Single Nano-Object Workshop&School
- [174] "Enhancement of a the spin signal in metallic lateral spin valves"  
P. Laczowski, J. C. Rojas Sánchez, L. Vila, Laurent, W. Savero Torres, A. Marty, M. Jamet, C. Beigné, L. Notin, **J. P. Attané**  
Intermag 2012, Vancouver (Canada), 7-11 May 2012
- [175] "Magnetization reversal modes in narrow FePt nanowires with high perpendicular anisotropy"  
V. D. Nguyen, L. Vila, A. Marty, J. C. Pillet, C. Beigné, L. Notin, S. Pizzini, **J. P. Attané**  
Intermag 2012, Vancouver (Canada), 7-11 May 2012
- [176] "Spin transfer effect in FePt nanowires: controlling the stochasticity of domain wall depinning using constrictions"  
**J. P. Attané**, V. D. Nguyen, A. Marty, L. Notin, C. Beigne, J. C. Rojas-sanchez, S. Pizzini, L. Vila  
19<sup>th</sup> International Conference on Magnetism, Busan, Korea, July 8-13, 2012
- [177] "Spin signal in metallic lateral spin valves made by a shadow evaporation technique"  
P. Laczowski, L. Vila, W. Savero-torres, V. D. Nguyen, J. C. Rojas-sanchez, M. Cubukcu, A. Marty, L. Notin, C. Beigne, **J. P. Attané**  
19<sup>th</sup> International Conference on Magnetism, Busan, Korea, July 8-13, 2012
- [178] "Magnetization reversal modes in narrow FePt nanowires with high perpendicular anisotropy"  
V. D. Nguyen, L. Vila, M. Tissier, A. Marty, M. Cubukcu, P. Laczowski, W. Savero-torres, J. C. Rojas Sanchez, **J. P. Attané**  
19<sup>th</sup> International Conference on Magnetism, Busan, Korea, July 8-13, 2012
- [179] "Hanle effect with in-plane magnetic fields in metallic lateral spin valves"  
J. C. Rojas Sanchez, L. Vila, M. Jamet, P. Laczowski, M. Cubukcu, W. Savero-torres, V. D. Nguyen, A. Marty, C. Beigné, **J. P. Attané**  
19<sup>th</sup> International Conference on Magnetism, Busan, Korea, July 8-13, 2012
- [180] "Detecting the magnetization switching of a ferromagnetic dot using non local spin injection by means of lateral spin valve structures"  
W. Savero-torres, L. Vila, A. Marty, P. Laczowski, V. D. Nguyen, M. Cubukcu, J. C. Rojas Sanchez, L. Notin, **J. P. Attané**  
19<sup>th</sup> International Conference on Magnetism, Busan, Korea, July 8-13, 2012

- [181] “Manipulation of spin precession in metallic lateral spin valves”  
J.C. Rojas Sánchez, P. Laczowski, W. Savero Torres, M. Cubukcu, **J.-P. Attané**, A. Marty, C. Beigné, L. Notin, M. Jamet, L. Vila  
 Joint European Magnetic Symposia JEMS2012, 9-14 septembre 2012, Parme, Italy
- [182] “Fabrication and Magnetotransport properties of Graphene-Based Lateral Spin-Valves”  
M. Cubukcu, M. B. Martin, P. Laczowski, C. Vergnaud, A. Marty, C. Beigné, L. Notin, **J.-P. Attané**, L. Vila, P. Seneor, M. Anane, C. Deranlot, S. Auffret, A. Fert, M. Jamet  
 Joint European Magnetic Symposia JEMS2012, 9-14 septembre 2012, Parme, Italy
- [183] “Switching magnetization of nanomagnets in lateral spin-valves”  
W. Savero Torres, L. Vila, P. Laczowski, J.C. Rojas Sanchez, V. D. Nguyen, A. Marty, M. Cubukcu, L. Notin, C. Beigné, M. Jamet, **J.-P. Attané**  
 Joint European Magnetic Symposia JEMS2012, 9-14 septembre 2012, Parme, Italy
- [184] “Enhancing the spin hall effect with gold based alloys”  
P. Laczowski, J. Rojas Sanchez, W. Savero Torres, L. Vila, **J.-P. Attané**, A. Marty, M. Cubukcu, M. Jamet, S. Gambarelli, G. Desfonds, C. Deranlot, J.M George, H. Jaffrès, A. Fert  
 JEMS2012 9-14 septembre 2012, Parme
- [185] “Controlling the stochasticity of domain wall depinning and spin transfer torque in ferromagnetic nanowires”  
V. D. Nguyen, L. Vila, A. Marty, C. Beigne, L. Notin, **J. P. Attané**  
 Joint European Magnetic Symposia JEMS2012, 9-14 septembre 2012, Parme, Italy
- [186] “Coercivity enhancement and magnetization reversal modes in narrow FePt nanowires”  
V.D. Nguyen, L. Vila, A. Marty, C. Beigné, L. Notin, J.C.Pillet, J.F. Jaquot, S. Pizzini, M. Tissier, **J.P. Attané**  
 Joint European Magnetic Symposia JEMS2012, 9-14 septembre 2012, Parme, Italy
- [187] “Stochasticity of domain wall depinning in NiFe and FePt nanowires under fields and currents”  
 V. Nguyen, W. Savero-Torres, P. Laczowski, L. Vila, A. Marty, L. Notin, C. Beigne, C. Vergnaud, M. Jamet, **J. P. Attane**  
 58<sup>th</sup> Annual Conference on Magnetism and Magnetic Materials (MMM), 4–8 November 2013, Denver, Colorado, USA
- [188] “Hanle effect with in-plane magnetic fields in metallic lateral spin valves”  
 J. Rojas Sanchez, P. Laczowski, W. SaveroTorres, M. Cubukcu, L. Vila, A. Marty, M. Jamet, **J. P. Attané**

58<sup>th</sup> Annual Conference on Magnetism and Magnetic Materials (MMM), 4–8 November 2013, Denver, Colorado, USA

- [189] "Detection of domain wall position and magnetization reversal in nanostructures using the magnon contribution to the resistivity"  
V. Nguyen, W. Savero Torres, P. Laczowski, L. Vila, C. Beigne, L. Notin, A. Marty, C. Vergnaud, M. Jamet, **J. P. Attané**  
58<sup>th</sup> Annual Conference on Magnetism and Magnetic Materials (MMM), 4–8 November 2013, Denver, Colorado, USA
- [190] "Detection of domain wall position and magnetization reversal in nanostructures using the magnon contribution to the resistivity"  
V. D. Nguyen, L. Vila, A. Marty, P. Laczowski, C. Beigne, L. Notin, M. Jamet, **J.P. Attane**, J. Vogel, S. Pizzini  
Comm. Orale: 3rd International Conference on Magnonics (Varberg, Sweden, August 4-8, 2013)
- [191] "Hanle effect with in-plane magnetic fields in metallic lateral spin valves"  
J.C. Rojas-Sanchez, L. Vila, P. Laczowski, W. Savero-Torres, C. Vergnaud, A. Marty, M. Jamet, **J. P. Attané**  
14th REIMEI Workshop on Spin Currents and Related Phenomena ILL, Grenoble, France, February 10-13, 2014
- [192] "Spin injection and dynamics in p-doped Germanium"  
F. Rortais, P. Laczowski, S. Oyarzun, J.-C. Rojas-Sanchez, N. Reyren, C. Vergnaud, A. Marty, C. Beigné, **J.-P. Attané**, L. Vila, G. Desfonds, S. Gambarelli, H. Jaffrès, J.-M. George, and M. Jamet  
16ème édition du colloque Louis Néel, Septembre 2014 Autrans
- [193] "Spin pumping and spin-orbit effects in semiconductors"  
S. Oyarzún, F. Rortais, J.-C. Rojas-Sanchez, P. Laczowski, N. Reyren, C. Vergnaud, L. Vila, **J.-P. Attané**, C. Beigné, C. Ducruet, G. Desfonds, S. Gambarelli, A. Marty, H. Jaffrès, J.-M. George, and M. Jamet  
16ème édition du colloque Louis Néel, Septembre 2014 Autrans
- [194] "Pure spin-current source based on magnetic domain walls"  
V. T. Pham, W. Savero Torres, P. Laczowski, V. D. Nguyen, J. C. Rojas Sanchez, L. Vila, A. Marty, C. Beigné, L. Notin, M. Jamet and **J. P. Attané**  
16ème édition du colloque Louis Néel, Septembre 2014 Autrans
- [195] "Spin to charge current conversion using Spin Hall or Rashba effects"  
J.C. Rojas-Sanchez, L. Vila, P. Laczowski, W. Savero-Torres, **J. P. Attané**, N. Reyren, C. Deranlot, J. M. de Teresa, M. Jamet, H. Jaffrès, J. M. George, A. Fert  
14th REIMEI Workshop on Spin Currents and Related Phenomena ILL, Grenoble, France, February 10-13, 2014

- [196] "Switchable spin-current source controlled by magnetic domain walls"  
W. Savero-Torres, L. Vila, P. Laczkowski, V. D. Nguyen, J.C. Rojas-Sanchez, A. Marty, C. Vergnaud, C. Beigné, L. Notin, M. Jamet, **J. P. Attané**  
14th REIMEI Workshop on Spin Currents and Related Phenomena ILL, Grenoble, France, February 10-13, 2014
- [197] "Spin signal enhancement by lateral confinement of the spin accumulation in multiterminal nanodevices"  
P. Laczkowski, V.D. Nguyen, L. Vila, A. Marty, **J.P. Attané**, H. Jaffres, J.M. George, A. Fert  
IEEE International Magnetism Conference, INTERMAG 2014, Dresden, Germany, May 4<sup>th</sup>- 8<sup>th</sup>, 2014
- [198] "Enhancement of the spin signal in metallic lateral spin-valves"  
P. Laczkowski, L. Vila, W. Savero-Torres, A. Marty, J. C. Rojas Sanchez, C. Beigne, L. Notin, M. Jamet, **J. P. Attané**  
IEEE International Magnetism Conference, INTERMAG 2014, Dresden, Germany, May 4<sup>th</sup>- 8<sup>th</sup>, 2014
- [199] "In-plane and out-of-plane spin precession in lateral spin-valves"  
J. C. Rojas-Sanchez, L. Vila, P. Laczkowski, M. Cubukcu, W. Savero-Torres, A. Marty, L. Notin, C. Beigne, C. Vergnaud, M. Jamet, **J. P. Attané**  
IEEE International Magnetism Conference, INTERMAG 2014, Dresden, Germany, May 4<sup>th</sup>- 8<sup>th</sup>, 2014
- [200] "Hanle effect with in-plane magnetic fields in metallic lateral spin valves"  
J. Rojas Sanchez, P. Laczkowski, W. SaveroTorres, M. Cubukcu, L. Vila, A. Marty, M. Jamet, J. P. Attané  
REIMEI workshop, Grenoble, February 2014
- [201] "Spin Hall effect studied by spin pumping technique"  
J. Rojas Sanchez, P. Laczkowski, N. Reyren, W. Savero Torres, M. Cubukcu, L. Vila, A. Marty, M. Jamet, **J. P. Attané**, J.M George, H. Jaffres, C. Deranlo, A. Fert  
REIMEI workshop, Grenoble, February 2014
- [202] "Switchable spin-current source controlled by magnetic domain walls"  
W. Savero-Torres, P. Laczkowski, V. Nguyen, J. Rojas Sanchez, L. Vila, A. Marty, C. Beigné, L. Notin, M. Jamet, **J. P. Attané**  
REIMEI workshop, Grenoble, February 2014
- [203] "In-plane and out-of-plane spin precession in lateral spin-valves"  
J. C. Rojas-Sanchez, L. Vila, P. Laczkowski, M. Cubukcu, W. Savero-Torres, A. Marty, L. Notin, C. Beigne, C. Vergnaud, M. Jamet, **J. P. Attané**  
Intermag Conference, Dresden, Germany, May 2014

- [204] "Enhancement of the spin signal in metallic lateral spin-valves"  
P. Laczkowski, L. Vila, W. Savero Torres, A. Marty, J. C. Rojas Sanchez, C. Beigne, L. Notin, M. Jamet, **J. P. Attane**  
Intermag Conference, Dresden, Germany, May 2014
- [205] "Spin signal enhancement by lateral confinement of the spin accumulation in multiterminal nanodevices"  
P. Laczkowski, V.D. Nguyen, L. Vila, A. Marty, **J.P. Attane**, H. Jaffres, J.M. George, A. Fert  
Intermag Conference, Dresden, Germany, May 2014
- [206] "Stochasticity of domain wall depinning under fields and currents in NiFe and FePt nanowires"  
W. Savero Torres, V. D. Nguyen, P. Laczkowski, A. Marty, L. Notin, C. Beigné, M. Jamet, L. Vila, et **J. P. Attané**  
16ème édition du colloque Louis Néel, Septembre 2014 Autrans
- [207] "Enhanced giant magnetoresistance signals in lateral spin valves"  
G. Zahnd, T. V. Pham, W. Savero Torres, P. Laczkowski, L. Vila, V. D. Nguyen, J. C. Rojas Sanchez, A. Marty, C. Vergnaud, C. Beigné, L. Notin, M. Jamet, **J. P. Attané**  
20<sup>th</sup> International Conference on Magnetism (ICM), Barcelona, 5<sup>th</sup>-10<sup>th</sup> July 2015
- [208] "Pure spin current injection and detection device based on magnetic domain wall"  
L. Vila, T. V. Pham, W. Savero Torres, G. Zahnd, P. Laczkowski, V. D. Nguyen, J. C. Rojas Sanchez, A. Marty, C. Vergnaud, C. Beigné, L. Notin, M. Jamet, **J.P. Attané**, Alain Marty  
20<sup>th</sup> International Conference on Magnetism (ICM), Barcelona, 5<sup>th</sup>-10<sup>th</sup> July 2015
- [209] "Large extrinsic spin hall effect in gold based alloys"  
P. Laczkowski, J. C. Rojas-Sánchez, W. Savero-Torres, N. Reyren, C. Deranlot, J. M. George, H. Jaffrès, A. Fert, L. Notin, C. Beigné, A. Marty, **J. P. Attané**, L. Vila  
20<sup>th</sup> International Conference on Magnetism (ICM), Barcelona, 5<sup>th</sup>-10<sup>th</sup> July 2015
- [210] "Spin injection in silicon and germanium: new elements for understanding"  
F. Rortais, S. Oyarzun, P. Laczkowski, J.-C. Rojas-Sanchez, C. Vergnaud, C. Ducruet, C. Beigné, A.Marty, N. Reyren, **J.-P. Attané**, L. Vila, G. Desfonds, S. Gambarelli, J. Widiez, H. Jaffrès, J.-M. George, M. Jamet  
20<sup>th</sup> International Conference on Magnetism (ICM), Barcelona, 5<sup>th</sup>-10<sup>th</sup> July 2015
- [211] "Temperature dependence of perpendicular magnetic anisotropy in CoFeB thin films"  
Y. Fu, I. Barsukov, A. Goncalves, M. Spasova, M. Farle, C. Kuo, **J.P. Attané**, L. Vila, I. Krivorotov  
20<sup>th</sup> International Conference on Magnetism (ICM), Barcelona, 5<sup>th</sup>-10<sup>th</sup> July 2015
- [212] "Hybrid optical generation and electrical detection of spin in Germanium using magnetic tunnel junctions and inverse spin hall effect"

- A. Ferrari, F. Bottegoni, C. Vergnaud, M. Celebrano, L. Ghirardini, E. Sakat, G. Isella, M. Bollani, P. Biagioni, F. Rortais, L. Vila, **J.P. Attané**, A. Marty, C. Beigné, C. Largeron, F. Henry, F. Ciccacci, M. Finazzi, M. Jamet  
20<sup>th</sup> International Conference on Magnetism (ICM), Barcelona, 5<sup>th</sup>-10<sup>th</sup> July 2015
- [213] “Spin-to-Charge Conversion in Spin Hall Effect Materials, Rashba Interfaces, and Topological Insulators”  
Y. Fu, J.C. Rojas-Sanchez, S. Oyarzun, P. Laczkowski, E. Lesne, N. Reyren, C. Deranlot, E. Jacquet, V. Cros, G. Desfonds, S. Gambarelli, C. Vergnaud, M. Jamet, C. Thomas, T. Meunier, J.-M. George, A. Barthélémy, H. Jaffrès, M. Bibes, A. Fert, L. Vila and **J.-P. Attané**  
17<sup>ème</sup> colloque Louis Néel, Saint-Dié-des-Vosges, Mars 2016
- [214] “Spin pumping and spin-orbit effects in Ge”  
S. Oyarzun, F. Rortais, J.-C. Rojas-Sanchez, P. Laczkowski, N. Reyren, C. Vergnaud, L. Vila, **J.-P. Attané**, C. Beigné, C. Ducruet, S. Gambarelli, J. Widiez, H. Jaffrès, J.-M. George, M. Jamet  
17<sup>ème</sup> colloque Louis Néel, Saint-Dié-des-Vosges, Mars 2016
- [215] “Efficient Domain Wall Manipulation via Pure Spin Currents in Non-Local Spin Valve Devices”  
R Reeve, A Pfeiffer, S Hu, A Kronenberg, M Jourdan, T Kimura, M Voto, L Lopez-Diaz, W Savero-Torres, L Vila, **J Attané**, M Kläui  
8<sup>th</sup> Joint European Magnetic Symposia, August 2016, Glasgow
- [216] “Large spin signals in metallic lateral spin-valves made with Co60Fe40 electrodes”  
Van Tuong Pham; Laurent Vila; Gilles Zahnd; Alain Marty; Williams Savero-Torres; Paul Noël; Fabien Rortais; Matthieu Jamet; Celine Vergnaud; **Jean-Philippe Attane**  
8<sup>th</sup> Joint European Magnetic Symposia, August 2016, Glasgow
- [217] “Spin current injection and detection controlled by magnetic domain walls”  
Pham, V.T., Zahnd, G., Marty, A., Savero Torres, W., Jamet, M., Noël, P., Vila, L. and **J. P. Attané**  
8<sup>th</sup> Joint European Magnetic Symposia, August 2016, Glasgow
- [218] “A spin resistor model for the calculation of spin accumulation and spin signal  
A. Marty, W. Savero Torres, P. Laczkowski, L. Vila, M. Jamet and **J. P. Attané**  
8th Joint European Magnetic Symposia, August 2016, Glasgow
- [219] “Spin-to-charge interconversion: a study on spin memory loss at metallic interfaces”  
Van Tuong PHAM; Laurent Vila; Gilles ZAHND; Alain Marty; Paul Noël; Piotr Laczkowski; Van Dai Nguyen; MATTHIEU JAMET; Williams Savero-Torres; **Jean-Philippe Attane**  
61<sup>st</sup> Magnetism and Magnetic Materials conference, New Orleans, USA, November 2016

- [220] “Domain walls as efficient spin current sources in lateral devices”  
Williams Saverio Torres; Gilles ZAHND; Van Tuong PHAM; Piotr Laczkowski; Alain Marty; Laurent Vila; **Jean-Philippe Attane**  
61<sup>st</sup> Magnetism and Magnetic Materials conference, New Orleans, USA, November 2016
- [221] Best poster prize award MMM 2016  
“Electrical detection of magnetic domain walls by inverse and direct spin Hall effect”  
Van Tuong Pham; Laurent Vila; Gilles Zahnd; Alain Marty; Williams Saverio-Torres; Paul Noël; Fabien Rortais; Matthieu Jamet; Celine Vergnaud; **Jean-Philippe Attane**  
61<sup>st</sup> Magnetism and Magnetic Materials conference, New Orleans, USA, November 2016,
- [222] “Spin-to-charge interconversion: a study on spin memory loss at metallic interfaces”  
Van Tuong PHAM; Laurent Vila; Gilles ZAHND; Alain Marty; Paul Noël; Piotr Laczkowski; Van Dai Nguyen; MATTHIEU JAMET; Williams Saverio-Torres; **Jean-Philippe Attane**  
IWAMSN, Han Long city, Vietnam, November 2016
- [223] Best Poster Prize Award Intermag 2017  
“Large and tunable spin Hall angles in gold based alloys: from intrinsic to side jump contributions”  
P. Laczkowski, P. Noel, Y. Fu, H. Yang, J. Rojas-Sanchez, V. Pham, G. Zahnd, C. Deranlot, S. Collin, C. Bouard, P. Warin, M. Chshiev, A. Marty, **J. Attané**, A. Fert, H. Jaffres, L. Vila and J.M. George  
Intermag 2017, April, Dublin (Ireland).
- [224] “Spin-to-charge interconversion in ferromagnetic/nonmagnetic nanostructures using direct and inverse spin Hall effects”  
V.T. Pham, P. Noel, G. Zahnd, A. Marty, C. Bouard, W. Saverio-Torres, L. Vila and **J.P. Attané**  
Intermag 2017, April, Dublin (Ireland)
- [225] “Domain walls as efficient pure spin current sources in lateral devices”  
W. Saverio Torres, G. Zahnd, V. Pham, A. Marty, L. Vila and **J.P. Attané**  
Intermag 2017, April, Dublin (Ireland)
- [226] “Electrical detection of magnetic domain wall by inverse and direct spin Hall effects”  
V. Pham, C. Bouard, P. Warin, G. Zahnd, A. Marty, P. Noel, W. Saverio-Torres, L. Vila and **J.P. Attané**  
Intermag 2017, April, Dublin (Ireland)
- [227] “Giant magnetoresistance variations due to the Hanle effect in lateral spin valves”  
G. Zahnd, V. Pham, F. Rortais, M. Jamet, C. Vergnaud, A. Marty, L. Vila and **J.P. Attané**  
Intermag 2017, April, Dublin (Ireland)

- [228] "Large spin signals in metallic lateral spin-valves made with CoFe electrodes"  
G. Zahnd, V. Pham, P. Laczkowski, A. Marty, L. Vila and **J.P. Attané**  
Intermag 2017, April, Dublin (Ireland)
- [229] "Large and tunable spin Hall angles in Gold based alloys: from intrinsic to side jump contributions"  
P. Laczkowski, Y. Fu, H. Yang, J.-C. Rojas-Sánchez, P. Noel, V.T. Pham, G. Zahnd, C. Deranlot, S. Colin, C. Bouard, P. Warin, M. Chshiev, A. Marty, **J.-P. Attané**, A. Fert, H. Jaffrès, L. Vila, and J.-M. George  
18ème colloque Louis Néel, Paris, September 2017
- [230] Best Poster prize  
"Spin Accumulation Magnetoresistance: toward a tunnel magnetoresistance effect based on a single ferromagnetic element"  
Zahnd Gilles, Savero-Torres Williams, Pham Van Tuong, Lavaitte Guillaume, Guelfucci Jude, Lamard Nathalie, Auffret Stéphane, Sousa Ricardo, Marty Alain, Vila Laurent, **Attané Jean-Philippe**  
18ème colloque Louis Néel, Paris, September 2017
- [231] "Potential of the LaAlO<sub>3</sub>/SrTiO<sub>3</sub> interface for spintronics"  
D. C. Vaz, P. Noël, E. Lesne, H. Naganuma, E. Jacquet, Y. Fu, S. Oyarzun, J.C. RojasSanchez, G. Sicoli, **J.-P. Attané**, M. Jamet, J.-M George, H. Jaffrès, A. Fert, J. Santamaria, L. Vila, A. Barthélémy and M. Bibes  
18ème colloque Louis Néel, Paris, September 2017
- [232] "Millimeter sized magnetic domains in perpendicularly magnetized ferrimagnetic Mn<sub>4</sub>N thin films"  
T. Gushj, L. Vila, A. Marty, O. Fruchart, F. Takata, A. Anzai, T. Suemasu and **J. P. Attané**  
18ème colloque Louis Néel, Paris, September 2017