

Liste de publications HALLEY David

Activités de Recherche, Travaux :

Physique de la matière condensée : étude de systèmes monocristallins épitaxiés, magnétisme, magnéto-transport, électronique de spin. Etude de métaux et d'oxydes magnétiques à l'échelle nanométrique. Effets magnéto-électriques.

Responsabilités :

- Elu CNU section 28
- Impliqué dans la filière « oui-si » et parcoursup.
- Conseil de perfectionnement de la Faculté.

Articles :

- Magnetic phase and magneto-resistive effects in VnO_{2n-1} Magnéli epitaxial nanoclusters, Brice Kengni Zanguim, Joseph Uzan, Loïc Joly, Fabrice Scheurer, Philippe Ohresser, Jean-François Dayen, Corinne Ulhaq-Bouillet, Anatolii Makhort, Bohdan Kundys, Hicham Majjad and David Halley (à paraître)
- Epitaxial ferromagnetic single clusters and smooth continuous layers on large area MgO/CVD graphene substrates Florian Godel, Christian Meny, Bernard Doudin, Hicham Majjad, Jean-François Dayen and David Halley Materials Research Express, 5, 025606 (2018)
- Spin-wave propagation and spin-polarized electron transport in single-crystal iron films O. Gladii, D. Halley, Y. Henry and M. Bailleul, Phys. Rev. B 96, 174420 (2017)
- Electrical control of the second harmonic generation intensity in highly stressed Cr₂O₃ clusters embedded in MgO M. Hamieh, H.Dorkenoo, G.Taupier, Y.Henry and D.Halley J. Phys. 29, 205301 (2017)
- Robust single-electron transport signatures in micrometers wide tunnel junctions on quantum-dot/graphene hybrid systems, F. Godel, D. M. Notemgnou, G. Fröhlicher, B. Doudin, S. Berciaud, Y. Henry, J.F. Dayen and D. Halley Advanced Materials, 29, 1604837 (2017)
- Writing on-demand permanent magnetic states by photostriction V. Iurchuk, D. Schick, J. Bran, D. Colson, A. Forget, D. Halley, A. Koc, M. Reinhardt, C. Kwamen, N.A. Morley, M. Bargheer, M. Viret, R. Gumeniuk, G. Schmerber, B. Doudin, and B. Kundys Phys. Rev. Lett, 117, 107403 (2016)
- Voltage-dependent magnetic phase transition in magneto-electric epitaxial Cr₂O₃ nanoclusters, D. Halley, M. Hamieh, N. Najjari, F.Godel, B. Doudin and Yves Henry Nanotechnology 27, 245706 (2016)

- Distance Dependence of the Energy Transfer Rate from a Single Semiconductor Nanostructure to Graphene F.Federspiel, G. Froehlicher, M. Nasilowski, S. Pedetti, A. Mahmood, B. Doudin, S. Park, J.-O Lee, D. Halley, B. Dubertret, P. Gilliot and S. Berciaud Nano Lett., 15, 1252 (2015)
- Controlling the magnetic anisotropy in epitaxial Cr₂O₃ clusters by an electric field D. Halley, N. Najjari, F. Godel, M. Hamieh, B. Doudin, and Y. Henry, Phys. Rev. B 91, 214408 (2015)