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Electric field modulation of spin and charge transport in two dimensional materials and complex oxide hybrids

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PUBLICATIONS

DESCRIBED IN THIS THESIS

1. R. Ruiter, S. Chen, V. Makthar, A.M. Kamerbeek, T. Banerjee, *Spin transport in graphene on SrTiO₃*, under consideration for Scientific Reports
2. A.M. Kamerbeek, R. Ruiter, T. Banerjee, *Inherent electric field driven inversion of spin accumulation in Nb:SrTiO₃*, in preparation
3. R. Ruiter, S. Chen, T. Banerjee, *Electrical characterisation of MoS₂ tunnel barriers in a metal/MoS₂/graphene configuration*, in preparation

OTHER PUBLICATIONS

1. O. V. Mikhnenko, R. Ruiter, P. W. M. Blom and M. A. Loi, *Direct Measurement of the Triplet Exciton Diffusion Length in Organic Semiconductors*, Physical Review Letters 108 (2012) 137401
2. S. Parui, R. Ruiter, P.J. Zomer, M. Wojtaszek, B.J. van Wees and T. Banerjee, *Temperature dependent transport characteristics of graphene/n-Si diodes*, Journal of Applied Physics 116 (2015) 244505
3. A. Sahoo, D. Nafday, R. Ruiter, A. Roy, M. Mostovoy, T. Banerjee, T. Saha-Dasgupta and A. Ghosh, *Field-tunable bistability of electrical noise and evidence of interface dipoles in graphene-SrTiO₃ hybrid*, in preparation
4. A.M. Kamerbeek, R. Ruiter and T. Banerjee *Coexistence of large room-temperature electroresistance and tunneling anisotropic magnetoresistance in ferromagnet/Nb-SrTiO₃ Schottky devices*, under review for Physical Review Applied

