Charge and spin transport across graphene and multifunctional oxide interfaces

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List of publications

1. **Magnetotransport in graphene on $BiFeO_3$ [Chapter 8]**
   S. Chen, O. Paull, N. Valanoor, D. Sando, B. J. van Wees & T. Banerjee
   in preparation

2. **Strain tunable magnetic properties of $BiFeO_3$ probed by spin Hall magnetoresistance and spin Seebeck effect [Chapter 7]**
   S. Chen, B. Xu, O. Paull, Y. Mostafa, P. Zhang, C. Xu, L. Bellaiche, N. Valanoor, D. Sando, B. J. van Wees & T. Banerjee
   to be submitted

3. **Spin Hall magnetoresistance in paramagnetic $NdGaO_3$**
   V. Eswara Phanindra, A. Das, J. J. L. van Rijn, S. Chen, B. J. van Wees, T. Banerjee
   arXiv: 2201.08685

4. **Unveiling Temperature-Induced Structural Domains and Movement of Oxygen Vacancies in $SrTiO_3$ with Graphene**
   [Chapter 6]
   S. Chen, X. Chen, E. A. Duijnstee, B. Sanyal & T. Banerjee
   ACS Appl. Mater. Interfaces, **12**, 52915–52921 (2020)
   [doi:10.1021/acsami.0c15458]

5. **Temperature and Electric Field Dependence of Spin Relaxation in Graphene on $SrTiO_3$**
   [Chapter 5]
   S. Chen, R. Ruiter, V. Mathkar, B. J. van Wees & T. Banerjee
   Phys. Status Solidi RRL, **12**: 1800216 (2018) [doi: 10.1002/pssr.201800216]

6. **On the impact of competing intra- and intermolecular triplet-state quenching on photobleaching and photoswitching kinetics of organic fluorophores**
   J. H. Smit, J. H. M. van der Velde, J. Huang, V. Trauschke, S. S. Henrikus, S. Chen, N. Eleftheriadis, E. M. Warszawik, A. Herrmann & T. Cordes
   Phys. Chem. Chem. Phys., **21**, 3721-3733 (2018) [doi:10.1039/c8cp05063e]