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Magnon spintronics in non-collinear magnetic insulator/metal heterostructures

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List of publications

- 1. Surface sensitivity of the spin Seebeck effect [Chapter 3]**
A. Aqeel, I. J. Vera-Marun, B. J. van Wees & T. T. M. Palstra
J. Appl. Phys. **116**, 153705 (2014) [doi: 10.1063/1.4897933]
- 2. Self-Assembly of Ferromagnetic Organic-Inorganic Perovskite-Like Films**
N. Akhtar, A. O. Polyakov, A. Aqeel, P. Gordiichuk, G. R. Blake, J. Baas, H. Amenitsch, A. Herrmann, P. Rudolf & T. T. M. Palstra
Small **10**, 4912 (2014) [doi: 10.1002/sml.201400259]
- 3. Spin-Hall magnetoresistance and spin Seebeck effect in spin-spiral and paramagnetic phases of multiferroic CoCr_2O_4 films [Chapter 4]**
A. Aqeel, N. Vlietstra, J. A. Heuver, G. E. W. Bauer, B. Noheda, B. J. van Wees & T. T. M. Palstra
Phys. Rev. B **10**, 4912 (2015) [doi: 10.1103/PhysRevB.92.224410]
- 4. Phase diagram and magnetic relaxation phenomena in Cu_2OSeO_3**
F. Qian, H. Wilhelm, A. Aqeel, T.T.M. Palstra, A.J.E. Lefering, E. H. Brück & C. Pappas
Phys. Rev. B **94**, 064418 (2016) [doi: 10.1103/PhysRevB.94.064418]
- 5. Optically probing symmetry breaking in the chiral magnet Cu_2OSeO_3**
R. B. Versteeg, I. Vergara, S. D. Schäfer, D. Bischoff, A. Aqeel, T. T. M. Palstra, M. Grüninger & P. H. M van Loosdrecht
Phys. Rev. B **94**, 094409 (2016) [doi: 10.1103/PhysRevB.94.094409]

6. **Electrical detection of spiral spin structures in Pt|Cu₂OSeO₃ heterostructures [Chapter 5]**
A. Aqeel, N. Vlietstra, A. Roy, M. Mostovoy, B. J. van Wees & T. T. M. Palstra
Phys. Rev. B **94**, 134418 (2016) [doi: 10.1103/PhysRevB.94.134418]
7. **Dissipation phenomena and magnetic phase diagram of Cu₂OSeO₃ below 50 K**
F. Qian, H. Wilhelm, A. Aqeel, T. T. M. Palstra, A. J. E. Lefering, E. H. Brück, and C. Pappas
submitted in Phys. Rev. B (2016)
8. **Probing current-induced magnetic fields in Au|YIG heterostructure with low-energy muon spectroscopy [Chapter 6]**
A. Aqeel, I. J. Vera-Marun, Z. Salman, B. J. van Wees & T. T. M. Palstra
accepted in Appl. Phys. Lett. (2017)
9. **Magnetic functionality of thin film perovskite hybrids**
A. O. Polyakov, N. Akhtar, A. Aqeel, P. Rudolf & T. T. M. Palstra
to be submitted (2017)
10. **Growth and helicity of non-centrosymmetric Cu₂OSeO₃ crystals [Chapter 7]**
A. Aqeel, J. Baas, G. R. Blake, & T. T. M. Palstra
to be submitted in Crystal Growth & Design (2017)
11. **Spin-Hall magnetoresistance in multidomain helical spiral systems**
A. Aqeel, M. Mostovoy, B. J. van Wees & T. T. M. Palstra
accepted in J. Appl. Phys. D (2017)
12. **Experimental observation of quantized helimagnon resonances in the chiral magnetic insulator Cu₂OSeO₃**
M. Weiler, A. Aqeel, M. Mostovoy, A. O. Leonov, S. Geprägs, R. Gross, H. Huebl, T. T. M. Palstra, & S. T. B. Goennenwein
to be submitted (2017)