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Controlled magnon spin transport in insulating magnets

Liu, Jing

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List of publications

Publications described in this thesis

1. **Microwave control of thermal magnon spin transport [Chapter 6]**
J. Liu, F. Feringa, B. Flebus, L. J. Cornelissen, J. C. Leutenantsmeyer, R. A. Duine & B. J. van Wees
Phys. Rev. B **99**, 054420 (2019).
2. **Nonlocal magnon transport in yttrium iron garnet with tantalum and platinum spin injection/detection electrodes [Chapter 5]**
J. Liu, L. J. Cornelissen, J. Shan, B. J. van Wees & T. Kuschel
J. Phys. D: Appl. Phys. **51**, 224005 (2018).
3. **Magnon planar Hall effect and anisotropic magnetoresistance in a magnetic insulator [Chapter 4]**
J. Liu, L.J. Cornelissen, J. Shan, T. Kuschel & B. J. van Wees
Phys. Rev. B **95**, 140402(R) (2017).

Other publications

4. **Efficient injection and detection of out-of-plane spins via the anomalous spin Hall effect in permalloy nanowires**
K. S. Das, J. Liu, B. J. van Wees & I. J. Vera-Marun
Nano Lett. **18**, 5633-5639 (2018)
5. **Spin-current-controlled modulation of the magnon spin conductance in a three-terminal magnon transistor**
L. J. Cornelissen, J. Liu, B. J. van Wees & R. A. Duine
Phys. Rev. Lett. **120**, 097702 (2018).

6. **Criteria for accurate determination of the magnon relaxation length from the nonlocal spin Seebeck effect**
J. Shan, L. J. Cornelissen, J. Liu, J. Ben Youssef, L. Liang & B. J. van Wees
Phys. Rev. B **96**, 184427 (2017).
7. **Long-distance transport of magnon spin information in a magnetic insulator at room temperature**
L. J. Cornelissen, J. Liu, R. A. Duine, J. Ben Youssef & B. J. van Wees
Nature Phys. **11**, 1022 (2015).