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Towards two-dimensional magnon spin transport in ultrathin magnetic insulator films

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List of publications

- 1. Giant magnon spin conductivity in ultrathin yttrium iron garnet films**
[Chapter 4]
X. -Y. Wei, O. A. Santos, C. H. S. Lusero, G. E. W. Bauer, J. Ben Youssef & B. J. van Wees
Nature Materials **21**, 1352 (2022) [doi: 10.1038/s41563-022-01369-0]
- 2. Electrically induced strong modulation of magnon transport in ultrathin magnetic insulator films**
[Chapter 5]
J. Liu, X.-Y. Wei, G. E. W. Bauer, J. Ben Youssef & B. J. van Wees
Phys. Rev. B **103**, 214425 (2021) [doi: 10.1103/PhysRevB.103.214425]
- 3. Strong perpendicular magnetic anisotropy in nanogranular unit-cell thin yttrium iron garnet films probed by spin current**
[Chapter 6]
X. -Y. Wei, S. Tirion, S. Geprägs & B. J. van Wees
to be submitted
- 4. The role of current-induced spin-related torques in non-linear magnon transport**
[Chapter 7]
X. -Y. Wei, M. H. D. Guimarães, J. Ben Youssef, & B. J. van Wees
in preparation

