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Spintronics and thermoelectrics in exfoliated and epitaxial graphene

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List of publications

‡ **Large yield production of high mobility freely suspended graphene electronic devices on a polydimethylglutarimide based organic polymer.**

N. Tombros, A. Veligura, J. Junesch, J. J. van den Berg, P. J. Zomer, M. Wojtaszek, I. J. V. Marun, H. T. Jonkman, and B. J. van Wees.

Journal of Applied Physics 109, 093702 (2011).

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T. Maassen, J. J. van den Berg, N. Ijbema, F. Fromm, T. Seyller, R. Yakimova, and B. J. van Wees.

Nano Letters 12, 14981502 (2012).

‡ **Spins in epitaxiaal grafeen leven langer.**

J. J. van den Berg, T. Maassen, and B. J. van Wees.

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Localized States Influence Spin Transport in Epitaxial Graphene.

T. Maassen, J. J. van den Berg, E. H. Huisman, H. Dijkstra, F. Fromm, T. Seyller, and B. J. van Wees.

Physical Review Letters 110, 067209 (2013).

‡ **Spin transport in graphene nanostructures.**

M. H. D. Guimarães, J. J. van den Berg, I. J. Vera-Marun, P. J. Zomer, and B. J. van Wees.

Physical Review B 90, 235428 (2014).

‡Not in this thesis

Observation of anomalous Hanle spin precession line shapes resulting from interaction with localized states.

J. J. van den Berg, W. Strupinski, and B. J. van Wees.
Physical Review B: Rapid Communications 91, 081403 (2015).

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Spin transport in epitaxial graphene on the C-terminated (000-1)-face of silicon carbide.

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Applied Physics Letters 109 012402 (2016).

Hanle precession in the presence of energy dependent coupling between localized states and an epitaxial graphene spin channel.

J. J. van den Berg, A. Kaverzin, and B. J. van Wees.
submitted.