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## Spin transport in graphene - hexagonal boron nitride van der Waals heterostructures

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## Publications

1. "Electrical spin injection, transport, and detection in graphene-hexagonal boron nitride van der Waals heterostructures: Progress and perspectives",  
**M. Gurram**, S. Omar, B.J. van Wees,  
Submitted to *2D Materials* (2017). ArXiv:1712.07828. (Review article)
2. "Spin transport in two-layer-CVDhBN/graphene/hBN heterostructures",  
**M. Gurram**, S. Omar, S. Zihlmann, P. Makk, Q.C. Li, Y.F. Zhang, C. Schönenberger,  
B.J. van Wees,  
*Physical Review B* **97**, 045411 (2018).
3. "Bias induced up to 100% spin-injection and detection polarizations in ferromagnet/bilayer-hBN/graphene/hBN heterostructure",  
**M. Gurram**, S. Omar, B.J. van Wees,  
*Nature Communications* **8**, 248 (2017).
4. "Spin transport in fully hexagonal boron nitride encapsulated graphene",  
**M. Gurram**, S. Omar, S. Zihlmann, P. Makk, C. Schönenberger, B.J. van Wees,  
*Physical Review B* **93**, 115441 (2016).
5. "Spin relaxation in graphene with self-assembled cobalt porphyrin molecules",  
S. Omar, **M. Gurram**, I.J. Vera-Marun, X. Zhang, E.H. Huisman, A. Kaverzin,  
B.L. Feringa, B.J. van Wees,  
*Physical Review B* **92**, 115442 (2015).
6. "Supramolecular Chemistry on Graphene Field-Effect Transistors",  
X. Zhang, E.H. Huisman, **M. Gurram**, W.R. Browne, B.J. van Wees, B.L. Feringa,  
*Small* **10**, 1735, (2014).
7. "Enhanced soft magnetic properties and magnetocaloric effect in Boron substituted amorphous Fe-Zr alloy ribbons",  
D. Mishra, **M. Gurram**, A. Reddy, A. Perumal, P. Saravanan, A. Srinivasan,  
*Materials Science and Engineering: B* **175**, 253 (2010).

