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Proximity-induced spin-orbit and exchange coupling in graphene-based heterostructures

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List of publications

1. "Electrical and thermal generation of spin currents by magnetic bilayer graphene" [chapter 8]
TS Ghiasi, AA Kaverzin, AH Dismukes, DK de Wal, X Roy, BJ van Wees
Nature Nanotechnology, (2021): 1-7
2. "The role of device asymmetries and Schottky barriers on the helicity-dependent photoresponse of 2D phototransistors"
J Quereda, J Hidding, TS Ghiasi, BJ van Wees, CH van der Wal, MHD Guimarães
Npj 2D Materials and Applications, 5.1 (2021): 1-7
3. "Charge-to-spin conversion by the Rashba-Edelstein effect in 2D van der Waals heterostructures up to room temperature" [chapter 7]
TS Ghiasi, AA Kaverzin, PJ Blah, BJ van Wees
Nano Letters, 19.9 (2019): 5959-5966
4. "Semiconductor channel-mediated photodoping in h-BN encapsulated monolayer MoSe₂ phototransistors"
J Quereda, TS Ghiasi, CH van der Wal, BJ van Wees
2D Materials, 6.2 (2019): 025040
5. "Bilayer h-BN barriers for tunneling contacts in fully-encapsulated monolayer MoSe₂ field-effect transistors" [chapter 5]
TS Ghiasi, J Quereda, BJ van Wees
2D Materials, 6.1 (2018): 015002

6. "Symmetry regimes for circular photocurrents in monolayer MoSe₂"
J Quereda, TS Ghiasi, JS You, J van den Brink, BJ van Wees, CH van der Wal
Nature Communications, 9.1 (2018): 1-8

7. "Schakelen met elektronspin dankzij tweedimensionale materialen"
TS Ghiasi, BJ van Wees
Nederlands Tijdschrift voor Natuurkunde, 84.8 (2018): 14-18

8. "Large proximity-induced spin lifetime anisotropy in TMD/graphene heterostructures" [chapter 6]
TS Ghiasi, J Ingla-Aynés, AA Kaverzin, BJ van Wees
Nano Letters, 17.12 (2017): 7528-7532

9. "Observation of bright and dark exciton transitions in monolayer MoSe₂ by photocurrent spectroscopy"
J Quereda, TS Ghiasi, FA van Zwol, CH van der Wal, BJ van Wees
2D Materials, 5.1 (2017): 015004

10. "Organic solar cell based on photosystem I pigment-protein complex, fabrication and optimization"
A Zeynali, TS Ghiasi, G Riazi, R Ajeian
Organic Electronics, 51 (2017): 341-348

11. "Anisotropic and non-reciprocal charge transport in chiral van der Waals tellurium"
X Yang, TS Ghiasi, J Momand, PD Ye, BJ Kooi, CH van der Wal and BJ van Wees
in preparation

Curriculum Vitae

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