

Publication List since 2012

Articles in Refereed Journals

16. B. Scharf, T. Frank, M. Gmitra, J. Fabian, I. Zutic, **V. Perebeinos** *Excitonic Stark effect in MoS₂ monolayers*, preprint arXiv:1606.03902
15. Y. Miyauchi, Z. Zhang, M. Takekoshi, Y. Tomio, H. Suzuura, **V Perebeinos**, ... *Tunable electronic correlation effects in nanotube-light interactions*
Phys. Rev. B **92** 205407 (2015)
14. **V. Perebeinos**
Metal dichalcogenides: Two dimensions and one photon
Nature Nano. **10**, 485 (2015)
13. **V. Perebeinos** and J. Tersoff
Wetting Transition for Carbon Nanotube Arrays under Metal Contacts
Phys. Rev. Lett. **114**, 085501 (2015)
12. **V. Perebeinos** and J. Tersoff
Carbon Nanotube Deformation and Collapse under Metal Contacts
Nano Lett. **14**, 4376 (2014)
11. **V. Perebeinos**, J. Tersoff, and W. Haensch
Schottky-to-Ohmic Crossover in Carbon Nanotube Transistor Contacts
Phys. Rev. Lett. **111**, 236802 (2013)
10. B. Scharf, **V. Perebeinos**, J. Fabian, and Ph. Avouris
Magneto-optical conductivity of graphene on polar substrates
Phys. Rev. B **88**, 125429 (2013)
9. A. Malapanis, **V. Perebeinos**, D.P. Sinha, E. Comfort, J.U. Lee
Quantum Efficiency and Capture Cross Section of First and Second Excitonic Transitions of Single-Walled Carbon Nanotubes Measured through Photoconductivity
Nano Lett. **13**, 3531 (2013)
8. B. Scharf, **V. Perebeinos**, J. Fabian, and Ph. Avouris
Effects of optical and surface polar phonons on the optical conductivity of doped graphene
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7. **V. Perebeinos**, J. Tersoff, and Ph. Avouris
Phonon-Mediated Interlayer Conductance in Twisted Graphene Bilayers
Phys. Rev. Lett. **109**, 236604 (2012)
6. W. Zhu, T. Low, **V. Perebeinos**, A.A. Bol, Y. Zhu, H. Yan, J. Tersoff, and Ph. Avouris
Structure and electronic transport in graphene wrinkles
Nano Lett. **12**, 3431 (2012)
5. T. Low, **V. Perebeinos**, R. Kim, M. Freitag, and Ph. Avouris
Cooling of photoexcited carriers in graphene by internal and substrate phonons
Phys Rev B **86**, 045413 (2012)
4. A. D. Franklin, S. J. Han, A. A. Bol, and **V. Perebeinos**
Double Contacts for Improved Performance of Graphene Transistors
Electron Device Letters, IEEE **33**, 17 (2012)

3. S. H. Ji, J. B. Hannon, R. M. Tromp, **V. Perebeinos**, J. Tersoff, and F. M. Ross
Atomic-scale transport in epitaxial graphene
Nature Materials **11**, 114 (2012)
2. Y. Wu¹, **V. Perebeinos**¹, Y. M. Lin, T. Low, F. Xia, and Ph. Avouris
Quantum behavior of graphene transistors near the scaling limit
Nano Lett. **12**, 1417 (2012)
¹equal contributions
1. T. Low, **V. Perebeinos**, J. Tersoff, and Ph. Avouris
Deformation and scattering in graphene over substrate steps
Phys. Rev. Lett. **108**, 096601 (2012)