

List of publications (first 5 are the top)

1. **V. Enaldiev**, A. Weston, E.G. Castanon, F. Ferreira, S. Bhattacharjee, S. Xu, H. Corte-Leon, Z. Wu, N. Clark, A. Summerfield, T. Hashimoto, Y. Gao, W. Wang, M. Hamer, H. Read, L. Fumagalli, A.V. Kretinin, S.J. Haigh, O. Kazakova, A.K. Geim, V.I. Fal'ko, R. Gorbachev
Interfacial ferroelectricity in marginally twisted 2D semiconductors
Nature Nanotechnology **17**, 390 (2022)
2. A. Weston, Y. Zou, **V. Enaldiev**, A. Summerfield, N. Clark, V. Zólyomi, A. Graham, C. Yelgel, S. Magorrian, M. Zhou, J. Zultak, D. Hopkinson, A. Barinov, T. Bointon, A. Kretinin, N. R. Wilson, P. H. Beton, V.I. Fal'ko, S.J. Haigh, Roman Gorbachev
Atomic reconstruction in twisted bilayers of transition metal dichalcogenides
Nature Nanotechnology **15**, 592 (2020)
3. **V.V. Enaldiev**, V. Zólyomi, C. Yelgel, S.J. Magorrian, V.I. Fal'ko
Stacking domains and dislocation networks in marginally twisted bilayers of transition metal dichalcogenides
Phys. Rev. Lett. **124**, 206101 (2020)
4. **V. V. Enaldiev**, F. Ferreira, V.I. Fal'ko
A scalable network model for electrically tunable ferroelectric domain structure in twistrionic bilayers of two-dimensional semiconductors
Nano Letters **22**, 1534 (2022)
5. **V. V. Enaldiev**, F. Ferreira, S. J. Magorrian, V.I. Fal'ko
Piezoelectric networks and ferroelectric domains in twistrionic superlattices in WS_2/MoS_2 and $WSe_2/MoSe_2$ bilayers
2D Materials **8**, 025030 (2021)
6. A.A. Zabolotnykh, **V.V. Enaldiev**, V.A. Volkov
Quasistationary near-gate plasmons in van der Waals heterostructures
Physical Review B **104**, 195435 (2021)
7. A. Garcia-Ruiz, H.Y. Deng, **V.V. Enaldiev**, V.I. Fal'ko
Full Slonczewski-Weiss-McClure parametrization of few-layer twistrionic graphene
Physical Review B **104**, 085402 (2021)
8. F. Ferreira, **V.V. Enaldiev**, V.I. Fal'ko, S.J. Magorrian
Weak ferroelectric charge transfer in layer-asymmetric bilayers of 2D semiconductors
Scientific Reports **11**, 1 (2021)
9. F. Ferreira, S.J. Magorrian, **V.V. Enaldiev**, D.A. Ruiz-Tijerina, V.I. Fal'ko
Band energy landscapes in twisted homobilayers of transition metal dichalcogenides
Applied Physics Letters **118**, 241602 (2021)
10. S.J. Magorrian, **V.V. Enaldiev**, V. Z'olyomi, F. Ferreira, D.A. Ruiz-Tijerina, V.I. Fal'ko
Multifaceted moiré superlattice physics in twisted WSe bilayers
Physical Review B **104**, 125440 (2021)
11. **V.V. Enaldiev**
Collective excitations in a two-component one-dimensional massless Dirac plasma
Physical Review B **98**, 155417 (2018)
12. **V.V. Enaldiev**, V.A. Volkov
Quantum confinement and heavy surface states of Dirac fermions in bismuth (111) films: An analytical approach
Phys. Rev. B, **97**, 115305 (2018)
13. **V.V. Enaldiev**
Edge states and spin-valley edge photocurrent in transition metal dichalcogenide monolayers
Phys. Rev. B, **96**, 235429 (2017)
14. **V. Enaldiev**, A. Bylinkin, and D. Svintsov
Plasmon-assisted resonant tunneling in graphene-based heterostructures
Phys. Rev. B, **96**, 125437 (2017)
15. **V.V. Enaldiev**, V.A. Volkov
Resonance absorption of terahertz radiation in nanoporated graphene
JETP Letters **104**, 624 (2016)

16. **V.V. Enaldiev**, V.A. Volkov
Aharonov–Bohm oscillations caused by non-topological surface states in Dirac nanowires
JETP Letters **104**, 784 (2016)
17. V.A. Volkov and **V.V. Enaldiev**
Surface States of a System of Dirac Fermions: A Minimal Model
JETP, **122**, 608 (2016)
18. **V.V. Enaldiev**, I.V. Zagorodnev, and V.A. Volkov
Boundary conditions and surface state spectra in topological insulators
JETP Letters, **101**, 89 (2015)
19. I.V. Zagorodnev, Zh.A. Devizorova, and **V.V. Enaldiev**
Resonant electron scattering by a graphene antidot
Phys. Rev. B, **92**, 195413 (2015)
20. Yu.I. Latyshev, A.P. Orlov, V.A. Volkov, **V.V. Enaldiev**, I.V. Zagorodnev, O.F. Vyvenko, Yu.V. Petrov, P. Monceau
Transport of Massless Dirac Fermions in Non-topological Type Edge States
Scientific Reports, **4**, 7578 (2014)