

Selected Publications

1. **T. Maniv** and V. Zhuravlev, "Field-induced boson insulating states in a 2D superconducting electron gas with strong spin-orbit scatterings", *J. Phys.: Condensed Matter* **35** 055001 (2023).
2. **T. Maniv** and V. Zhuravlev, "Superconducting fluctuations and giant negative magnetoresistance in a gate-voltage tuned two-dimensional electron system with strong spin-orbit impurity scattering", *Phys. Rev. B* **104** 054503 (2021).
3. H. Chadwick, Y. Alkoby, J. T. Cantin, D. Lindebaum, O. Godsi, **T. Maniv**, and G. Alexandrowicz, "Molecular spin echoes; multiple magnetic coherences in molecule surface scattering experiments", *Physical Chemistry Chemical Physics* **23** 7673 (2021).
4. Y. Alkoby, H. Chadwick, O. Godsi, H. Labiad, M. Bergin, J. T. Cantin, I. Litvin, **T. Maniv** and G. Alexandrowicz, "Setting benchmarks for modelling gas-surface interactions using coherent control of rotational orientation states", *Nature Communications* **11** 3110 (2020).
5. I. Litvin, Y. Alkoby, O. Godsi, G. Alexandrowicz and **T. Maniv**, "Parallel and anti-parallel echoes in beam spin echo experiments", *Results in Physics* **12** 381 (2019).
6. O. Godsi, G. Corem, Y. Alkoby, J. T. Cantin, R. V. Krems, M. F. Somers, J. Meyer, G.-Jan Kroes, **T. Maniv**, and G. Alexandrowicz, "A general method for controlling and resolving rotational orientation of molecules in molecule-surface collisions", *Nature Communications* **8** 15357 (2017).
7. V. Zhuravlev, W. Duan and **T. Maniv**, "2D massless Dirac Fermi gas model of superconductivity in the surface state of a topological insulator at high magnetic fields", *Europhysics Letters* **120** 27004 (2017).
8. V. Zhuravlev, Wenye Duan, and **T. Maniv**, "Self-consistent Bogoliubov de Gennes theory of the vortex lattice state in a two-dimensional strongly type-II superconductor at high magnetic fields", *Physical Review B* **95** 024502 (2017).
9. R. Walther, S. Fritz, E. Muller, R. Schneider, D. Gerthsen, W. Sigle, **T. Maniv**, H. Cohen, C. Matyssek, and K. Busch, "Coupling of Surface-Plasmon-Polariton-Hybridized Cavity Modes between Submicron Slits in a Thin Gold Film", *ACS Photonics*, **3** (5) 836 (2016).
10. R. Walther, I. Carmeli, R. Schneider, D. Gerthsen, K. Busch, C. Matyssek, Y. Kauffmann, A. Shvarzman, **T. Maniv**, S. Richter, H. Cohen, "Inter-Slit Coupling via Ultrafast Dynamics across Gold-Film Hole Arrays", *Journal of physical Chemistry C* **118** 20, 11043 (2014).
11. B. Rosenstein, M. Lewkowicz and **T. Maniv**, "Chiral anomaly and strength of the electron-electron interaction in graphene", *Physical Review Letters* **110** 066602 (2013).