Supplementary Materials

Electrostimulation and nanomanipulation of two-dimensional MoO_{3-x} layers grown on graphite

Aleksandra Nadolska [1], Dorota A. Kowalczyk [1], Iaroslav Lutsyk [1], Michał Piskorski [1], Paweł Krukowski [1], Paweł Dąbrowski [1], Maxime Le Ster [1], Witold Kozłowski [1], Rafał Dunal [1], Przemysław Przybysz [1], Wojciech Ryś [1], Klaudia Toczek [1], Paweł J. Kowalczyk [1] and Maciej Rogala [1,*]

[1] Department of Solid State Physics, Faculty of Physics and Applied Informatics, University of Lodz, Pomorska 149/153, 90-236 Lodz, Poland
* Correspondence: maciej.rogala@uni.lodz.pl

Voltage-current characteristic after material removal

The I-V curves were performed at the same locations as marked in Fig. 4. They were recorded after material removal. These plots show that in these spots, the conductivity is significantly higher than initially measured in these points (presented in Fig. 5 in the main text). Some of the curves are characterized with additional disturbances that result from the nature of the electrical measurement with the AFM probe. For curve #5, an additional curve has been added which indicates a significant decrease in conductivity, resulting from material shedded off the AFM probe (see Fig. 4c).

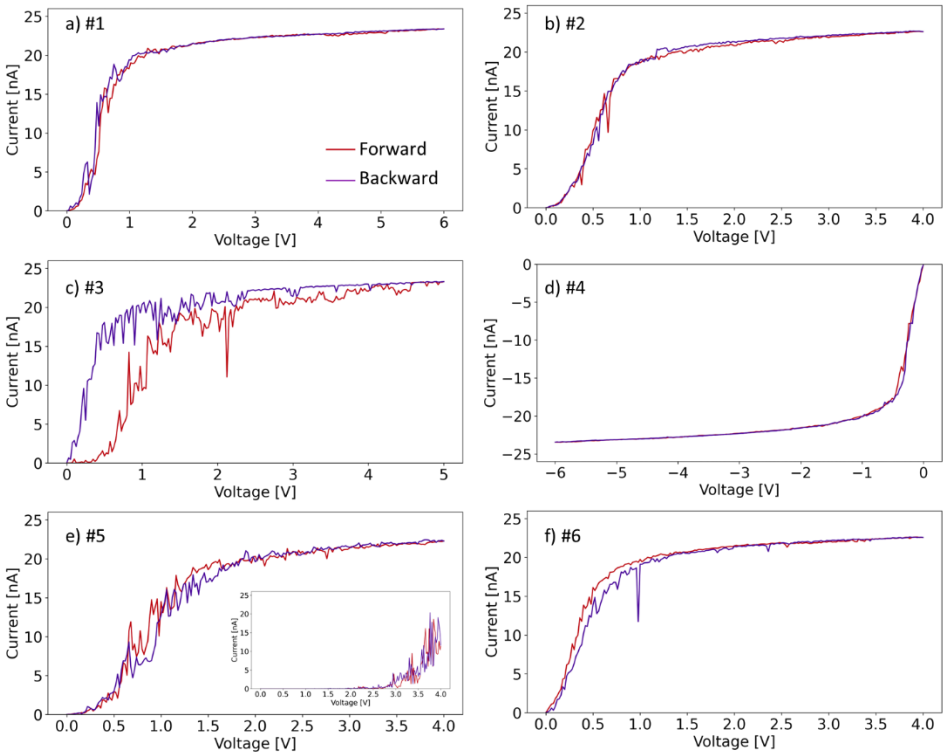

Figure S1. Subsequent I-V curves (acquired immediately after the curves shown in Fig. 4c) corresponding to the measurement of the same points with an applied voltage of: (**a**) 6 V; (**b**) 4 V; (**c**) 5 V; (**d**) -6 V; (**e**) 4 V; (**f**) 4V. The forward curves are shown in red, the backward curves in purple. All curves start or finish at 0 V.