

## F-Diamane (“single layer diamond”) and “perfect” (well, almost?) CVD single crystal graphene

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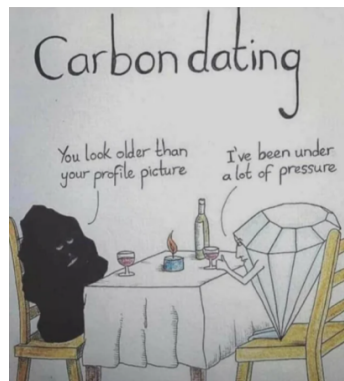
Ulsan, Republic of Korea



### Abstract

This talk will discuss some recent research focusing on F-diamane and single crystal, adlayer free, fold free, wrinkle free, graphene. For those that like to read ahead—please enjoy:

- ◇ <https://doi.org/10.1126/sciadv.abe3767>
- ◇ <https://doi.org/10.1126/science.aao3373>
- ◇ <https://doi.org/10.1002/adma.201903615>
- ◇ <https://doi.org/10.1038/s41565-019-0582-z>
- ◇ <https://doi.org/10.1002/adma.201706504>
- ◇ <https://doi.org/10.1021/acs.chemmater.9b01729>
- ◇ <https://doi.org/10.1002/adma.201800888>
- ◇ <https://doi.org/10.1002/adma.201707449>
- ◇ <https://doi.org/10.1038/s41586-021-03753-3>
- ◇ <https://doi.org/10.1038/s41565-019-0622-8>
- ◇ <https://doi.org/10.1021/acsnano.8b02444>



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### Bio

Prof. Rodney S. Ruoff is a UNIST Distinguished Professor (The Departments of Chemistry and Materials Science, and The School of Energy Science and Chemical Engineering) and directs the Center for Multidimensional Carbon Materials (CMCM), an Institute for Basic Science Center (IBS Center) located at the Ulsan National Institute of Science and Technology (UNIST) campus (Ulsan, Republic of Korea). Prior to joining the UNIST faculty in 2014, he was the Cockrell Family Regents Endowed Chair Professor at the University of Texas at Austin from September, 2007.

He earned his Ph.D. in Chemical Physics from the University of Illinois-Urbana in 1988 and then was a Fulbright Fellow in 1988-89 at the Max Planck Institute für Strömungsforschung in Göttingen, Germany. Next, he was a postdoctoral fellow at IBM TJ Watson Research Center and then did research at the Molecular Physical Laboratory, SRI International for 6 years. Later, from January 2000 to August 2007, he was the John Evans Professor of Nanoengineering at Northwestern University and director of NU's Biologically Inspired Materials Institute.

Further information about Prof. Ruoff is available <http://cmcm.ibs.re.kr/> and [https://en.wikipedia.org/wiki/Rodney\\_S.\\_Ruoff](https://en.wikipedia.org/wiki/Rodney_S._Ruoff)