



2D Vertical Heterostructures with Covalent Interlayer Bonding

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Message from the Guest Editor

Innovative developments in the field of two-dimensional (2D) nanoelectromechanical, nanoelectronic and photovoltaic systems have led to the need to integrate two-dimensional materials with each other. "Splicing" of two-dimensional materials, apart from the trivial case of lateral contacts, is provided mainly by electrostatic dipole forces known as van der Waals (vdW) interaction. To date, several dozen types of such heterostructures have been created and investigated, and they have already shown a huge potential for the development of this direction of nanotechnology.

