

Read Free Degenerate N
Doping Of Few Layer
Transition Metal

Degenerate N Doping Of Few Layer Transition Metal

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~~Degenerate N Doping Of Few~~

We report here the first degenerate n-doping of few-layer MoS₂ and WSe₂ semiconductors by surface charge transfer using potassium. High-electron sheet densities of $1.0 \times 10^{13} \text{ cm}^{-2}$ and $2.5 \times 10^{12} \text{ cm}^{-2}$ for MoS₂ and WSe₂ are obtained, respectively.

~~Degenerate n-Doping of Few-Layer~~

~~Transition Metal ...~~

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~~Degenerate n-Doping of Few-Layer Transition Metal ...~~

Degenerate n-Doping of Few-Layer
Transition Metal Dichalcogenides by
Potassium

~~Degenerate n-Doping of Few-Layer Transition Metal ...~~

Abstract We report here the first degenerate n-doping of few-layer MoS₂ and WSe₂ semiconductors by surface charge transfer using potassium. High electron sheet densities of $\sim 1.0 \times 10^{13}$ (13) cm⁻² and...

~~Degenerate n-Doping of Few-Layer Transition Metal ...~~

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~~Degenerate n-doping of few-layer transition metal ...~~

The potassium doping was achieved by physical vapor deposition onto pre-patterned devices so that electrical measurements could be taken without exposing the devices to air. As one might expect, potassium deposition engenders strong n-type doping and yields massive 2D electron concentrations of $\sim 1.0 \times 10^{13} \text{ cm}^{-2}$ for K-doped MoS₂ and $2.5 \times 10^{12} \text{ cm}^{-2}$ for K-doped WSe₂.

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~~Literature Review: Degenerate n-Doping of Few Layer ...~~

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~~Degenerate n-doping of few-layer transition metal ...~~

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obtained, respectively.

~~Figure 2 from Degenerate n-doping of few-layer transition ...~~

Literature Review: Degenerate n-Doping
of Few-Layer Transition Metal

Dichalcogenides by Potassium July 29,
2015 July 29, 2015 / druffeldan / Leave a
comment The article I am reviewing is
called “Degenerate n-Doping of Few-
Layer Transition Metal Dichalcogenides
by Potassium” (full citation below).

~~Degenerate doping | 2D materials~~

A degenerate semiconductor is a
semiconductor with such a high level of
doping that the material starts to act more
like a metal than as a semiconductor.

Unlike non-degenerate semiconductors,
these kind of semiconductor do not obey
law of mass action, which relates intrinsic
carrier concentration with temperature and

Read Free Degenerate N Doping Of Few Layer Transition Metal bandgap.

~~Degenerate semiconductor—Wikipedia~~
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CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda):
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In this work, we fabricated few-layer WSe₂ FETs with different contact metals (Ti, Co, and Pt) with significant differences in work function and investigated the chemical doping effect by hydrazine solution. Our n-doping process by the dipping method in solution is facile and simple compared to other methods [8–11]. The results show that for Ti- and Co-contacted FETs, hydrazine treatment makes them strongly n-type, and for Pt-contacted FETs, the pristine p-type was converted to n-type.

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[d78e23f16c9bd9b33b33c243e34a2527](https://doi.org/10.1002/anie.202311111)