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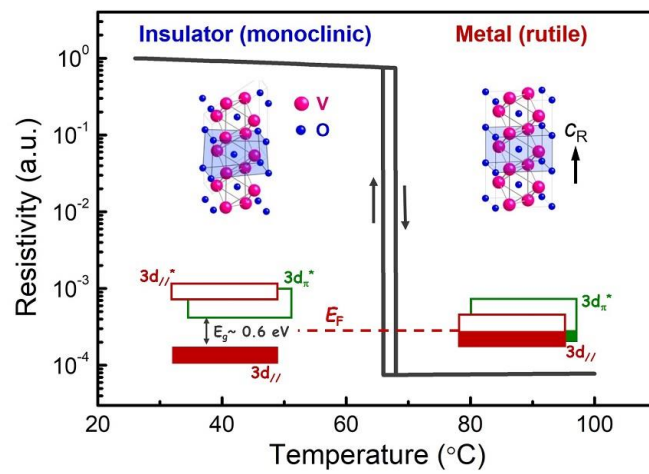
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Materials Today

Recent progresses on physics and applications of
vanadium dioxide VO_2

1959

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Olivier Delaire

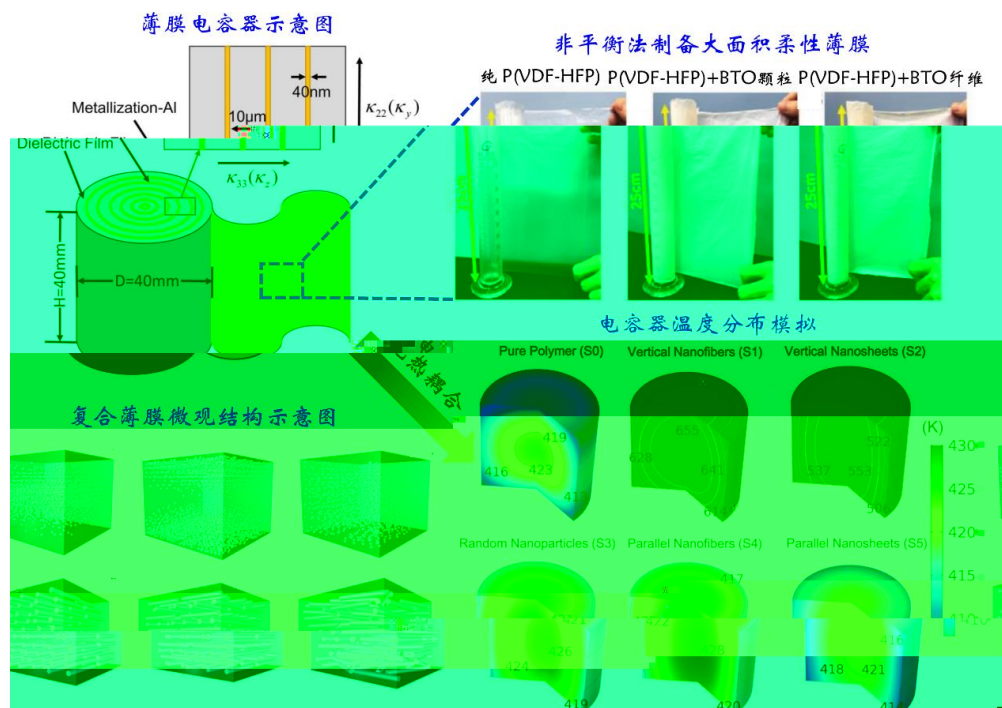
21.7

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<https://doi.org/10.1016/j.mattod.2018.03.029> ★

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973



BOPP

$\sim 1.2 \text{ MJ/m}^3$

$20 \sim 30 \text{ MJ/m}^3$

Adv. Mater. 2018, 1707269,

2017

10 kV

Adv. Mater. 2018, 1704380,

2014

Wiley

MaterialsViewsChina

<http://www.materialsvIEWSchina.com/2018/01/27617/>

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Adv. Energy Mater. 2018,

1800509

2014

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2018 5

Angewandte Chemie International Edition

Ice Melting to Release Reactants in Solution Syntheses

Iced photochemical reduction to synthesize atomically dispersed metals by suppressing nanocrystal growth. *Nature Communications*, 2017, 8, 1490

Chemistry Views Chemistry World

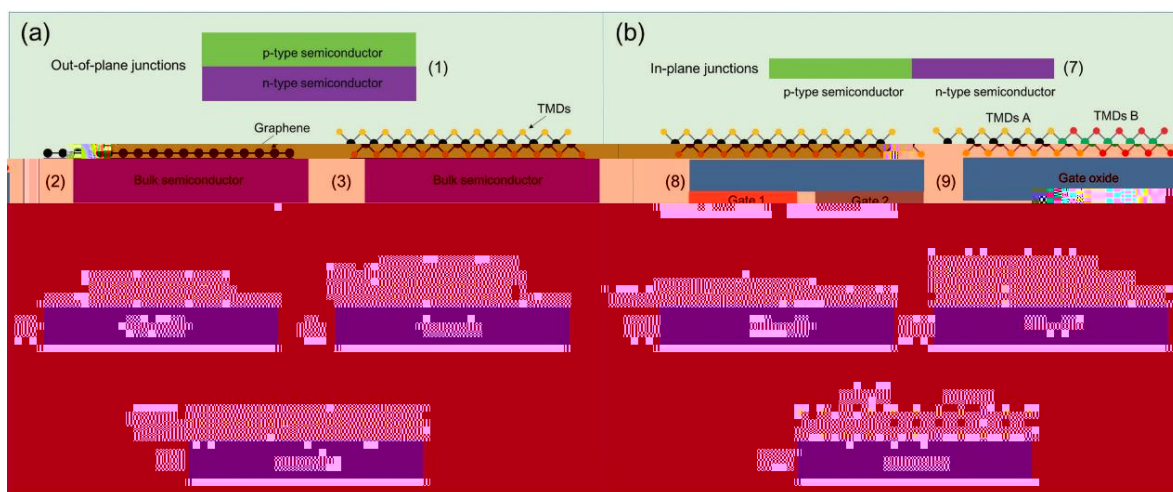
<https://onlinelibrary.wiley.com/doi/10.1002/anie.201711128> ★

Engineering graphene and TMDs based van der Waals heterostructures for photovoltaic and photoelectrochemical solar energy conversion

TMDs / 2D/2D
/ 2D/3D

TMDs
HfS₂ NbS₂ VSe₂ MoS₂ WS₂
WSe₂
TMDs 1~2 eV
Si 1.1 eV GaAs 1.4 eV CdTe
1.5 eV TMDs
2D TMDs
2D TMDs 2D/2D 2D/3D
TMDs

TMDs



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Jean-Jacques Delaunay

38.618

<http://pubs.rsc.org/en/Content/ArticleLanding/2018/CS/C8CS00067K> ★

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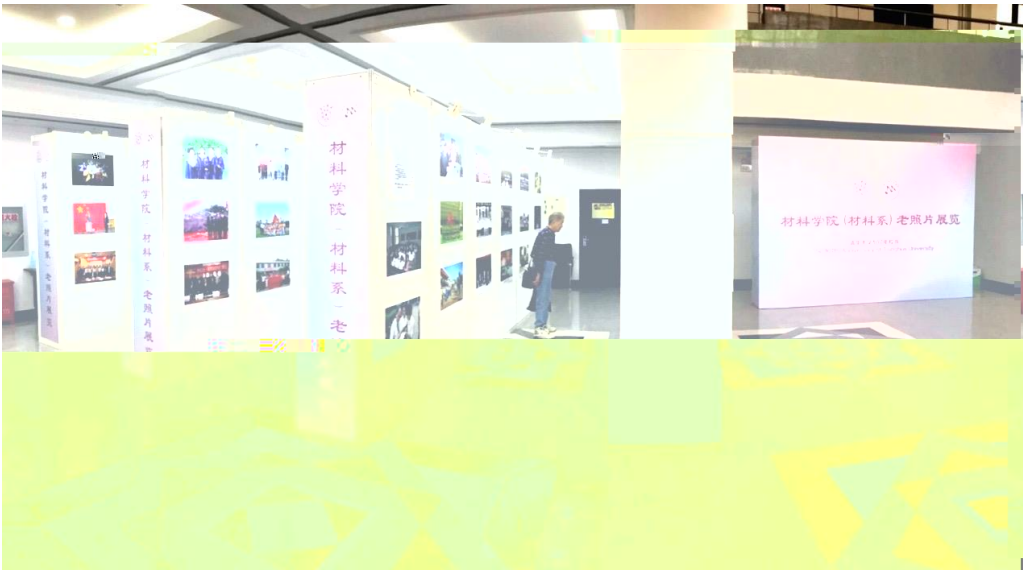
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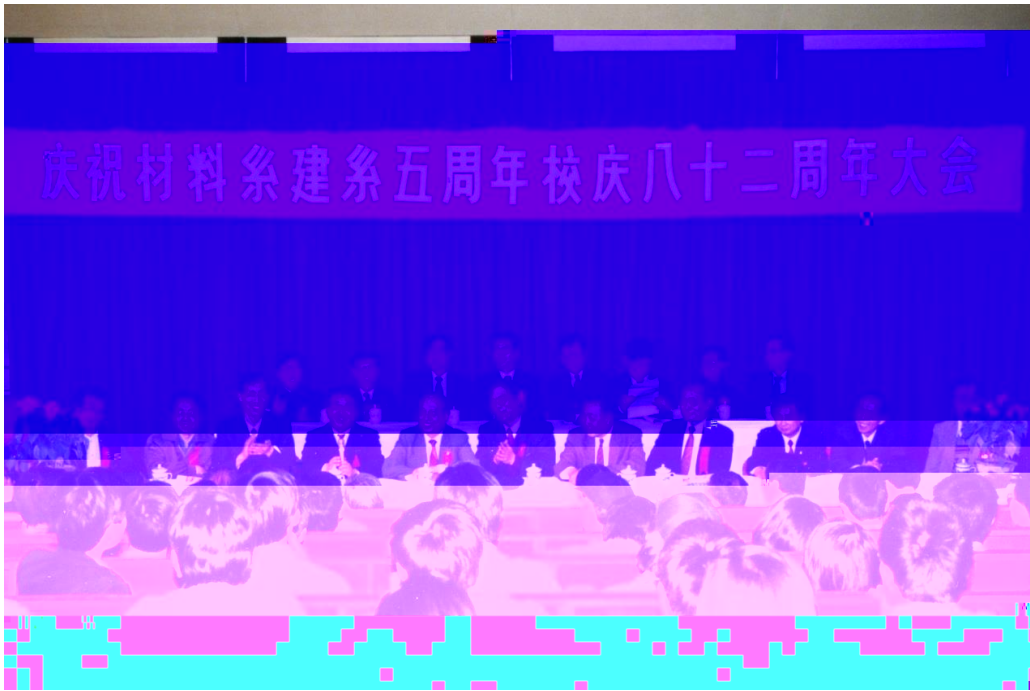
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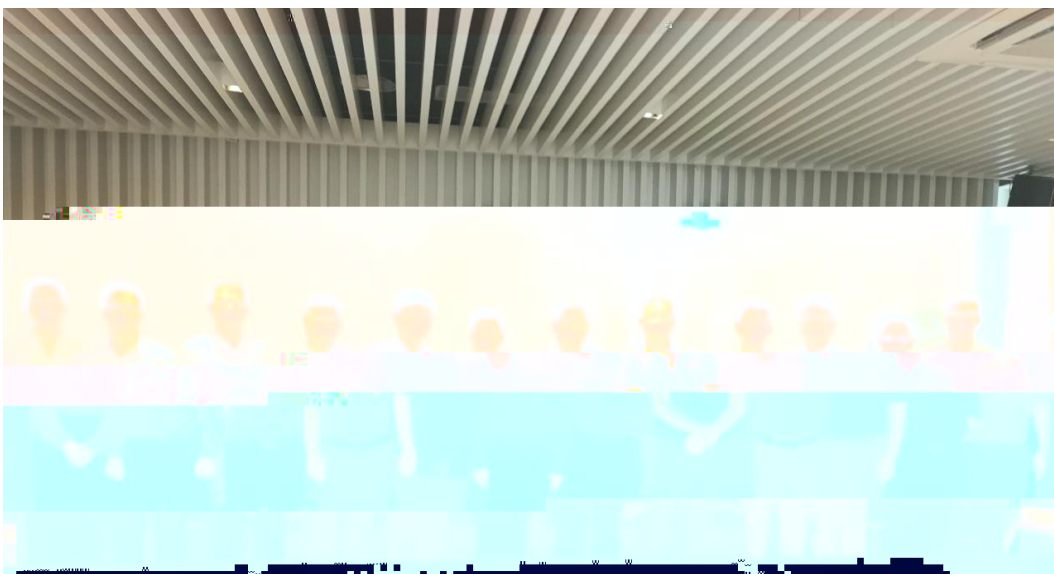
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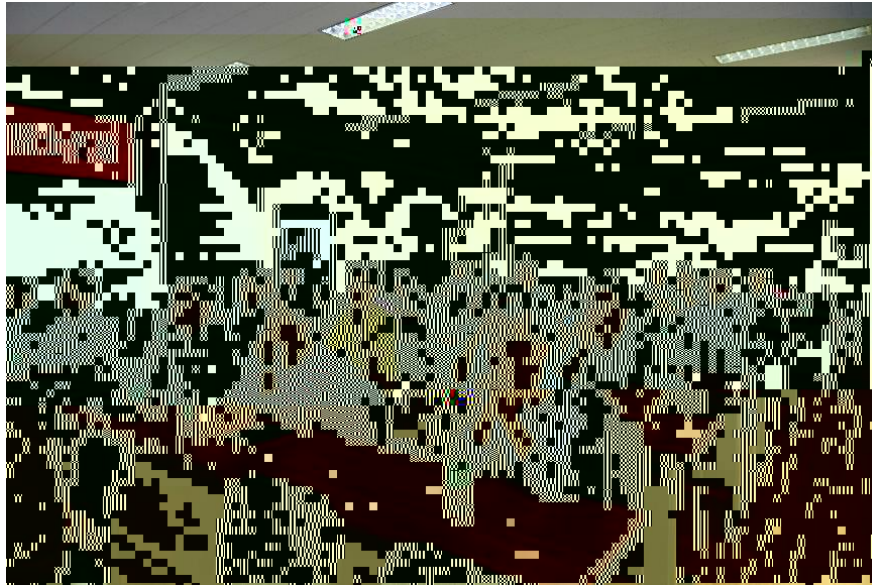


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Science and Technology of Advanced Materials

(STAM)

Fellow Fellow, School of Engineering, The

University of Tokyo

2017

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clx@tsinghua.edu.cn

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