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[Jun 2019] Philip Kim,

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The investigation of van der Waals (vdW) heterostructures has been becoming an attractive research topic due to their unique electrical, optical and magnetic properties. The vdW heterostructures are generally constructed from stacks of atomically thin two-dimensional (2D) materials and their performance is c Recent

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2D van der Waals

heterostructures:

processing, optical ...

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August 2016 Writing in

Science, leading 2D

materials researchers

estimate that research on

combining materials of

just a few atomic layers in

stacks called

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heterostructures is at the same stage that graphene was 10 years ago, and can expect the same rapid progress graphene has experienced.

2D materials and van der Waals heterostructures
Among them,
luminescence is one of the important
investigation aspects,
which is relevant to the

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unique structural, carrier transport, photonic, and optoelectronic properties of 2D materials. Herein, a general overview of recent advances of luminescence in 2D systems, including 2D materials and van der Waals heterostructures, is given.

Luminescence in 2D
Materials and van der

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K. S. Novoselov, 1,2* A.
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two-dimensional (2D)
materials and

heterostructures based
on such crystals has been
developing extremely
fast. With these new
materials, truly 2D

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By comprehensive
materials and device

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modeling at the atomic scale, it is reported that 2D van der Waals (vdW) MS interfaces, with their atomic sharpness and cleanness, can be considered as general ingredients for CS FETs. As test cases, InSe based n type FETs are studied.

A New Opportunity for
2D van der Waals

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Heterostructures ...
title = "2D materials and
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heterostructures",

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of two-dimensional (2D)
materials and
heterostructures based
on such crystals has been
developing extremely
fast. With these new
materials, truly 2D
physics has begun to
appear (for instance, the

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s Arxiv

absence of long-range
order, 2D excitons, com-
mensurate-
incommensurate
transition, etc.).

2D materials and van der
Waals heterostructures -
Citation ...

Interest in 2D materials
and van der Waals solids
is growing exponentially
across various scientific
and engineering

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disciplines owing to their fascinating electrical, optical, chemical, and thermal properties.

Beyond Graphene:
Progress in Novel Two-
Dimensional ...

Layered combinations of different 2D materials are generally called van der Waals heterostructures. Twistronics is the study of how the angle (the

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twist) between layers of two-dimensional materials can change their electrical properties. Characterization of 2D materials.

Two-dimensional materials - Wikipedia
2D and van der Waals materials exhibit radically new electrical and optical properties and are opening new research

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directions in the field of nanophotonics. Polaritons in these materials can be used to confine light to the nanoscale, while via gate-tunability it is possible to create reconfigurable optical devices.

Optics of 2D and van der
Waals materials |
Capasso Group
Abstract Designer

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Van Der Waals
Heterostructure
s Arxiv

heterostructures can now be assembled layer-by-layer with unmatched precision thanks to the recently developed deterministic placement methods to transfer two-dimensional (2D) materials. This possibility constitutes the birth of a very active research field on the so-called van der Waals heterostructures.

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Recent progress in the
assembly of nanodevices
and van der ...

Although the 2D
materials are interesting
in their own right, an
even larger potential lies
in the possibility of
reassembling different 2D
crystals into new layered
compounds . Such
designer materials have
been coined van der
Waals heterostructures

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(vdWHs) with reference
to the weak van der
Waals forces holding the
2D crystal planes
together.

Calculating excitons,
plasmons, and
quasiparticles in 2D ...

In recent years, physicists
and materials scientists
have explored ways of
using the weak (van der
Waals) coupling between

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stacked, atomically-thick layers of material to manipulate the material's properties.

The most famous example is graphene, a 2D sheet of carbon atoms.

Twisted spirals of 2D materials grow on curved surfaces ...

Two-dimensional materials from layered

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van der Waals (vdW)
crystals hold great
promise for electronic,
optoelectronic, and
quantum devices, but
technological
implementation will be
hampered by the...

Disassembling 2D van
der Waals crystals into
macroscopic ...

The 2D materials are
layered material with the

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thickness of one or more monolayers [66, 67] while atoms in the layer are covalently bonded and the layers are held together by van der Waals (vdW) forces [68]. Dimensional differences produce novel properties different from those of 3D materials.

Quasi van der Waals

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Van Der Waals
epitaxy nitride materials
and devices ...

Heterostructure
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In commonly used 2D
materials, researchers rely
on the interaction
between the thin layers,
known as van der Waals
interlayer coupling, to
create charge transfer that
is then used in devices.

However, this interlayer
coupling is limited
because the charges are
traditionally distributed

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evenly on the two sides of
each layer.

2D materials tailored to
improve optical and
electronic ...

The wide variety of
currently available two-
dimensional (2D)
materials has enabled the
stacking of different
atomic layers to yield
new electronic materials
held together by van der

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