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Generally, magnetic heterostructures are obtained by the growth of another component on the surface of seed nanoparticles. The direct electrical and magnetic interactions between the solid-state interfaces would endow the heterostructures with properties beyond the individual components. We have devoted the past few years to magnetic-optical, magnetic-catalytic, and exchange-coupled heterostructures, where the interface effects regulate and optimize the optical, catalytic, and

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## **Magnetic Heterostructures: Interface Control to Optimize ...**

The emergence of low-dimensional nanomaterials has brought revolutionized development of magnetism, as the size effect can significantly influence the spin arrangement. Since the first demonstration of truly two-dimensional magnetic materials (2DMMs) in 2017, a wide variety of magnetic phases and associated properties have been exhibited in these 2DMMs, which offer a new opportunity to ...

## **Recent Advances in Two- Dimensional Magnets: Physics and**

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Special attention will be given to the range of new van der Waals heterostructures that became possible with the appearance of 2D magnets, offering new perspectives in this rapidly expanding field.

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## **Magnetic 2D materials and heterostructures | Nature ...**

Since the resurgence of multiferroics research, significant advancement has been made in the theoretical and experimental investigation of the electric field control of magnetization, magnetic anisotropy, magnetic phase, magnetic domains, and Curie temperature in multiferroic heterostructures. As a result of these advances, multiferroic heterostructures are on a trajectory to impact spintronics applications through the significantly reduced energy consumption per unit area for magnetization ...

## **Perspective: Magnetoelectric switching in thin film ...**

Magnetic heterostructures have attracted considerable attention in the field of condensed matter physics for new spintronics and emerging topotronics (1-15). Research interest in magnetic...



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## **Natural van der Waals heterostructural ... - Science Advances**

Abstract Multiferroic heterostructures of Fe<sub>3</sub>O<sub>4</sub>/PZT (lead zirconium titanate), ...  
Nanoscale Advances, ... M. Liu,  
Perspectives of voltage control for  
magnetic exchange bias in multiferroic  
heterostructures, Physics Letters A,  
10.1016/j.physleta.2017.01.065, 381,  
14, ...

## **Giant Electric Field Tuning of Magnetic Properties in ...**

This perspective focuses on such voltage control of magnetization in multiferroic heterostructures (see their different architectures in Fig. 1a-d). It briefly discusses its mechanisms, current trends, and future directions. Other topics of multiferroics are available in recent reviews [ 1, 3-5] or other articles in this special issue.

## **Perspective: voltage control of**

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## And Perspectives In **magnetization in ...**

Zabel and S. D. Bader, Magnetic Heterostructures: Advances and Perspectives in Spinstructures and Spintransport (Springer Verlag, Berlin, Heidelberg, New York, 2008).

## **Interface effects of the magnetic properties in Nd ...**

Exchange coupling in magnetic heterostructures can be modified via introduction of additional magnetic spacer layers at the interfaces. The magnetic characteristics and the spacer layer thickness determine the functional properties of the whole system. We show that the hysteresis loop area of trilayer spring magnets with two different soft magnetic layers ( $s_1$ ,  $s_2$ ) and one hard magnetic layer ...

## **Manipulation by exchange coupling in layered magnetic ...**

The study revealed that the interface dependent magnetic structure in Gd/Co multilayers strongly contributes to

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different macroscopic magnetic and magnetotransport properties and especially the graded layers can be used to engineer heterostructures with desired properties for promising applications in the device technology.

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