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### Electrical phenomena at interfaces : fundamentals ...

From magnetism, ferroelectricity and superconductivity to electrical and thermal properties, oxides show a broad range of phenomena of fundamental as well as practical relevance. Reviewed here are ...

### Emergent phenomena at oxide interfaces | Nature Materials

It starts with fundamental electrostatics at interfaces and includes a detailed description of fundamental theories dealing with electrical double layers around a charged particle, electrokinetics, and electrical double layer interaction between charged particles. The stated fundamentals are provided as the underpinnings of sections two, three, and four, which address electrokinetic phenomena that occur in nanoscience, bioscience, and environmental science.

### Wiley: Electrical Phenomena at Interfaces and ...

With these fundamentals of correlated electrons at interfaces, we will describe below how to design and realize various novel functions and phenomena such as charge/orbital/spin reconstructions, magneto-electric coupling, superconductivity, and the quantized Hall effect.

### Emergent Phenomena at Oxide Interfaces

(1) Surfactant Science Series, Consulting Editor Martin J. Schick Consultant New York, Vol. 76 Electrical Phenomena at Interfaces Second Edition, Fundamentals, Measurements and Applications, Second Edition, Revised and Expanded. Ed by Hiroyuki Ohshima, Kunio Furusawa. 1998. K. Oka and K. Furusawa, Chapter 8 Electrophoresis, p. 152 - 223.

### Electrophoretic light scattering - Wikipedia

Abstract. The importance of surface charges in establishing electrical characteristics of interfaces, particularly of the solid/liquid, liquid/gas, and liquid/liquid ones, has already been stressed in the opening paragraphs of Chapter 1.

### Electrical Characteristics of Interfaces. Electrical ...

The second harmonic generation from charged monolayers at air/water interfaces is shown to be linearly related to the interface electric potential. This dependence is due to the polarization of water molecules in the electrostatic field of the charged monolayer.

### Polarization of water molecules at a charged interface ...

Contact bounce (also called chatter) is a common problem with mechanical switches and relays, which arises as the result of electrical contact resistance (ECR) phenomena at interfaces. Switch and relay contacts are usually made of springy metals.

**Switch - Wikipedia**

In the second step, if there are ions existing in the liquid, such as  $H^+$  and  $OH^-$ , the loosely distributed negative ions in the solution would be attracted to migrate toward the surface bonded ions due to electrostatic interactions, forming an EDL. Both electron transfer and ion transfer co-exist at liquid-solid interface.

**Double layer (surface science) - Wikipedia**

Scientists propose a new method to confine light in an atomically thin graphene layer by leveraging topological phenomena that occur at the interface of specially designed nanomaterials.

**Trapping and controlling light at the interface of ...**

Remarkable and unexpected phenomena have been discovered at oxide heterostructure interfaces 1,2,3,4,5, which have a fundamental and potentially technological impact on future oxide-based devices ...

**Tunable conductivity threshold at polar oxide interfaces ...**

2010 Electrical structures of interfaces: ... An analysis of electrochemical phenomena at interfaces as modelled by the Nernst-Planck system coupled with Poisson's equation for the electric field was undertaken by Bass ... 1997 The second Painlevé equation as a model for the electric field in a semiconductor. Phys. Lett.

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