Surface And Interface Science

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Surface And Interface Science
1.H. Imada, K. Miwa, M. Imai-Imada, S. Kawahara, K. Kimura, and Y. Kim.: "Single molecule investigation of energy dynamics in a coupled plasmon-exciton system" Phys ...

Chief Scientist Laboratories Surface and Interface Science Laboratory
A research team from Brown University has made a major step toward improving the long-term reliability of perovskite solar cells, an emerging clean energy technology. In a study to be published on ...

'Molecular glue' makes perovskite solar cells dramatically more reliable over time
Combined DFT and experiment, the boron configurations which show different Lewis acidity on B-doped graphene are identified stabilizing effect to electrochemical interfaces and promoting the ...

Stabilizing electrochemical interfaces using boron Lewis acids
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Colloid & Interface Science Group
Transitioning to a hydrogen economy will require massive production of cheap, clean hydrogen gas for fuel and chemical feedstocks. New tools allow scientists to zoom in on a catalytic reaction that's ...

First nanoscale look at a reaction that limits the efficiency of generating hydrogen fuel
A model experimental approach, providing molecular scale insight into the build up mechanisms of a corrosion inhibiting interface, is reported. 2-mercaptobenzimidazole (2-MBI), a widely used organic ...

Molecular scale insights into interaction mechanisms between organic inhibitor film and copper
Preparation of concave magnetoplasmonic core-shell supraparticles of gold-coated iron oxide via ion-reducible layer-by-layer method for surface enhanced Raman scattering.

Journal of colloid and interface science
Researchers review the various properties and use of nanoparticles in targeting SARS-CoV-2 and how they could be used to develop new therapeutics and diagnostics for SARS-CoV-2.

Applications of nanoparticles in combating COVID-19
Scientists have long sought to invent materials that can respond to the external world in predictable, self-regulating ways. Now, new research conducted at the University of Massachusetts Amherst and ...

Nature provides inspiration for breakthrough in self-regulating materials
In particular, when a drop containing saturated sodium chloride is evaporated on a hydrophobic surface, “salt globes” form because of the propensity of crystals to nucleate at the air/water interface ...

Crystal critters: Self-ejection of crystals from heated, superhydrophobic surfaces
The Applied Science Department would like to officially congratulate Dr. Peiwen Liu on successfully defending his Ph.D. Dissertation. Peiwen Liu, originally from Chongqing, China, earned a B.S. in ...

Peiwen Liu Completes Ph.D. Dissertation Defense
Image Credit: Institute for Basic Science. Because of these properties ... Wettability is the potential of the interfacial water to retain contact with a solid surface, and it relies on the ...

Study Sheds New Light on Graphene Interface Properties at Microscopic Levels
Scientists identify the wettability of graphene layers and improve the understanding of graphene interface properties ... to maintain contact with a solid surface, and it depends on the ...

Identification of the wettability of graphene layers at the molecular level
Optical switching and basic neuromorphic functions can be stimulated at low operating voltages with femto- to pico-joule energies per spiking event, and detailed analysis demonstrates that PPC in this ...

Low-energy room-temperature optical switching in mixed-dimensionality nanoscale perovskite heterojunctions
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“Molecular Glue” Boosts Efficiency and Makes Perovskite Solar Cells Dramatically More Reliable Over Time
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Wettability is the ability of the interfacial water to maintain contact with a solid surface, and it depends ... properties at the graphene-water interface have little effect on the substrate ...