RESEARCH ARTICLES

827 Soft-Chemistry–Based Routes to Epitaxial \( \alpha \)-Quartz Thin Films with Tunable Textures
A. Carretero-Genevier et al.

Porous and dense piezoelectric films of \( \alpha \)-quartz crystals are epitaxially grown on silicon substrates.
>> Perspective p. 818

832 Rationally Designed Complex, Hierarchical Microarchitectures
W. L. Noorduin et al.

Complex solids are crafted through small changes to the solution conditions in a reaction-diffusion coupled system.
>> Perspective p. 822; Slideshow

837 Dual Molecular Signals Mediate the Bacterial Response to Outer-Membrane Stress
S. Lima et al.

Gram-negative bacteria monitor lipopolysaccharide and outer-membrane protein status to detect and respond to problems.

REPORTS

841 Phase Diagram of the Topological Superfluid \(^4\)He Confined in a Nanoscale Slab Geometry
L. V. Levitin et al.

Geometrical confinement affects the stability of the superfluid phases of helium-3.

844 3D Computational Imaging with Single-Pixel Detectors
B. Sun et al.

A computational imaging method is used to reconstruct a three-dimensional scene, without the need for lenses.
>> Perspective p. 821

847 Computationally Assisted Identification of Functional Inorganic Materials
M. S. Dyer et al.

A method using extended building blocks is developed for computationally viable predictions of stable crystal structures.

852 A Reconciled Estimate of Glacier Contributions to Sea Level Rise: 2003 to 2009
A. S. Gardner et al.

The contribution of glaciers to sea level rise is nearly as much as that of the Greenland and Antarctic Ice Sheets combined.
>> News story p. 798

857 Inhibition of PRC2 Activity by a Gain-of-Function H3 Mutation Found in Pediatric Glioblastoma
P. W. Lewis et al.

Mutations of histones in some cancers result in inhibition of enzymes that lay down epigenetic marks on chromatin.
>> Perspective p. 823

862 Invasive Harlequin Ladybird Carries Biological Weapons Against Native Competitors
A. Vilcinskas et al.

Invasive ladybirds harbor microsporidia that kill nonresistant beetles contributing to the original residents’ decline.
>> Perspective p. 816

864 Nuclear Actin Network Assembly by Formins Regulates the SRF Coactivator MAL
C. Baartlink et al.

A dynamic polymeric actin structure inside the nucleus is part of the serum response in mammalian tissue culture cells.

867 Wnt Stabilization of \( \beta \)-Catenin Reveals Principles for Morphogen Receptor-Scaffold Assemblies
S.-E. Kim et al.

The scaffold protein Axin has an active role in modulating signaling through the Wnt pathway.

871 Activation of the Yeast Hippo Pathway by Phosphorylation-Dependent Assembly of Signaling Complexes
J. M. Rock et al.

A scaffold protein provides a two-step regulatory mechanism to control the exit from mitosis in yeast.

875 ATAXIN-2 Activates PERIOD Translation to Sustain Circadian Rhythms in Drosophila
C. Lim and R. Allada

A role for Drosophila ATX2 in activation of PER Translation and Circadian Behavior
Y. Zhang et al.

Fruit fly circadian clock function requires protein translation regulated by a RNA-binding protein.
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