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REVIEW
1289 Planar Photonics with Metasurfaces
A. V. Kildishev et al.
Review Summary; for full text:
http://dx.doi.org/10.1126/science.1232009

COVER
A woman in Beijing covers her face at the peak of the severe
acute respiratory syndrome (SARS) outbreak in April 2003.
Two News stories (pages 1264 and 1269) and a Perspective
(page 1287) describe what happened when the world was
confronted with this deadly new virus and ask whether we are
better prepared today.

Photo: Guang Niu/Reuters/Newscom

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1290 A Neural Circuit for Memory Specificity and Generalization
W. Xu and T. C. Südhof
Projections to and from the nucleus reunions in the thalamus regulate the specificity of contextual fear memory.

REPORTS
1295 Spin Torque–Generated Magnetic Droplet Solitons
S. M. Mahroorani et al.
Transport measurements reveal a self-reinforcing traveling wave in a magnetic system.

1298 Flexible Minerals: Self-Assembled Calcite Spicules with Extreme Bending Strength
F. Natalio et al.
Spicules from aligned calcite nanocrystals and silicate-in-α show enhanced bending strength linked to protein content. >> Perspective p. 1281

1302 Real-Time Observation of Surface Bond Breaking with an X-ray Laser
M. Dell’Angela et al.
Changes in x-ray absorption and emission features reveal a weakly interacting precursor state to the chemisorbed state.

1305 Evidence for Microbial Carbon and Sulfur Cycling in Deeply Buried Ridge Flank Basalt
M. A. Lever et al.
Active methane- and sulfur-cycling microbial communities exist in deep basaltic ocean crust.

1309 Hind Wings in Basal Birds and the Evolution of Leg Feathers
X. Zheng et al.
Fossils of basal birds have feathers on all four limbs, suggesting that the present two-winged condition is a derived state. >> News story p. 1261

1312 Adaptive Evolution of Multiple Traits Through Multiple Mutations at a Single Gene
C. R. Linnen et al.
The light color of mice living in the Nebraska Sand Hills is not the result of a single large-effect mutation.

1316 Circadian Control of Chloroplast Transcription by a Nuclear-Encoded Timing Signal
Z. B. Noordolly et al.
In plants, day/night information is communicated from a nuclear-encoded circadian oscillator to the chloroplast.

1320 Quantitative Phosphoproteomics Reveal mTORC1 Activates de Novo Pyrimidine Synthesis
A. M. Robitaille et al.
In addition to its role in stimulating protein and lipid synthesis, the kinase mammalian target of rapamycin stimulates nucleotide biosynthesis.

1323 Stimulation of de Novo Pyrimidine Synthesis by Growth Signaling Through mTOR and S6K1
I. Ben-Sahra et al.
Proteomic Mapping of Mitochondria in Living Cells via Spatially Restricted Enzymatic Tagging
H.-W. Rhee et al.
A modern update of a classic peroxidase-based anatomical methodology opens a window into mitochondria in live cells.

1328 The Genetic Basis for Bacterial Mercury Methylation
J. M. Parks et al.
A two-gene cluster encodes proteins required for the production of the neurotoxin methylmercury in bacteria. >> Perspective p. 1280

1332 The C9orf72 GGGGCC Repeat Is Translated into Aggregating Dipeptide-Repeat Proteins in FTLD/ALS
K. Mori et al.
A new class of proteins links a common genetic mutation to the predominant pathology in certain neurodegenerative diseases. >> Perspective p. 1282