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A current flow through a hematite crystal couples dissolution and growth reactions at different surfaces, a finding likely relevant to a broad range of semiconducting minerals.
10.1126/science.1154833

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T. Rosenband et al.
Precise measurements of the frequency ratio of two optical clocks indicate that the fine-structure constant is fine and constant to an uncertainty of 10⁻¹⁷.
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Reef fish locate desirable feeding opportunities by recognizing dimethylsulfoniopropionate, which is released by coral reef algae in response to foraging by fish.

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R. D. Müller, M. Sdrolias, C. Gaina, B. Steinberger, C. Heine
Considering changes in the shape of the ocean basins implies that global sea level fell by ~250 meters since 140 to 80 million years ago, a larger drop than implied in a recent study.

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B. Herrmann, C. Thöni, S. Gächter
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Mutating a cell-surface virulence protein on strep bacteria stabilizes its structure, minimizing its inflammatory side effects and potentially making it a better vaccine.
Mechanical tension causes TGF-β release.

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**PERSPECTIVE: Matrix Elasticity, Cytoskeletal Tension, and TGF-β: The Insoluble and Soluble Meet**
R. G. Wells and D. E. Discher
Extracellular matrix stiffness regulates the equilibrium between storage and release of matrix-bound transforming growth factor–β.

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Find out what MVE, SFRP, and LCR mean in the world of cell signaling.

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C. Wald
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G. Bjorn
Measures of research impact are gaining popularity, but they have limitations with early-career faculty.

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J. Fernández
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