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Supply and Demand for Scientists and Engineers: A National Crisis in the Making: R. C. Atkinson

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Atomistic Mechanisms and Dynamics of Adhesion, Nanoindentation, and Fracture: U. Landman, W. D. Luedtke, N. A. Burnham, R. J. Colton

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The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objectives are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to improve the effectiveness of science in the promotion of human welfare, to advance education in science, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.

Twining in MgSiO_3, Perovskite: Y. Wang, F. Gugey, A. Yeganeh-Haeri, R. C. Liebermann

GT-1 Binding Site Confers Light Responsive Expression in Transgenic Tobacco: E. Lam and N.-H. Chua


RNA Polymerase II Transcription Blocked by Escherichia coli Lac Repressor: U. Deuschle, R. A. Hipskind, H. Bujard


A Bacterial Enhancer Functions to Tether a Transcriptional Activator Near a Promoter: A. Wedel, D. S. Weiss, D. Popham, P. Dröge, S. Kustu

Primary Structure of the γ-Subunit of the DHP-Sensitive Calcium Channel from Skeletal Muscle: S. D. Jay, S. B. Ellis, A. F. McCue, M. E. Williams, T. S. Vedvick, M. M. HarPold, K. P. Campbell


Two Gap Genes Mediate Maternal Terminal Pattern Information in Drosophila: D. Weigel, G. Jürgens, M. Klingler, H. Jäckle

Oldest Pinniped: C. A. Repenning; A. Berta and A. R. Wyss

As We Forgive Our Debtors, reviewed by R. K. Z. Heck; Sickle Cell Disease, J. C. Parker and E. P. Orringer; Ecology and Evolution of Livebearing Fishes (Peciliidae), F. W. Allendorf; Some Other Books of Interest; Books Received

Photodiode Array Spectrometer; X-ray Microanalysis System; Hybridization Incubator; Ultraviolet Cross-Linker; RNA Extraction Kit; Coverglass Chambers for Cell Culture; DNA and RNA Linkers and Transilluminators; Literature

Cover Pseudocolor transmission electron micrograph of fibrous, lath-shaped, diagenetic illite (less than 0.1-micrometer-size fraction) from the Repetto Formation, Santa Barbara Channel, California. Analysis of the sizes of illites and other clay minerals indicates that they coarsen by a process known as Ostwald ripening. See page 474. [Photo by Reed Glasmann, Unocal Corporation]