1896
The biology of learning disabilities

1906 & 1984
T cell receptor β chain

NEWS & COMMENT

Arguing Over Why Johnny Can't Read 1896
Patent Award Stirs a Controversy 1899
Commotion Over E. coli Project 1899
Agency Merger Plan Faces High Hurdles 1900
Swedish Science: Political Spat Threatens Funding for Basic Research 1901
Asian Network Seeks Data Sharing 1902

RESEARCH NEWS

Switching On a Brilliant Light 1904
Taking a First Look at a T Cell Receptor 1906
When It Comes to Evolution, Humans Are in the Slow Class 1907
The Earliest Art Becomes Older—and More Common 1908
Earth’s Solid Iron Core May Skew Its Magnetic Field 1910
Pacific Warming Unsettles Ecosystems 1911
Hubble Glimpses a Hazy Day on Mars 1912

POLICY FORUM

Science: Opening the Next Chapter of Conservation History 1954
B. Babbitt

PERSPECTIVE

Hostile Landscapes and the Decline of Migratory Songbirds 1956
R. A. Askins

RESEARCH ARTICLE

Architectures of Class-Defining and Specific Domains of Glutamyl-tRNA Synthetase 1958

DEPARTMENTS

THIS WEEK IN SCIENCE 1885
EDITORIAL 1887
Letters 1889
SCIENCE SCOPE 1895
RANDOM SAMPLES 1903
BOOK REVIEWS 2012
The Paleobiogeography of China, reviewed by D. H. Erwin • The Milky Way Galaxy and Statistical Cosmology, 1890–1924, D. DeVorkin • Marine Mammals and the Exxon Valdez, R. C. Helms • Vignettes
PRODUCTS & MATERIALS 2017
QUARTERLY AUTHOR INDEX 2023

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Zena Web
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Owen N. Witte
William A. Wulf
Molecular dynamics representations of two low-temperature amorphous states of water, which are characterized by different, incompatible short-range orderings of the molecules. The white spheres represent hydrogen and the red spheres oxygen. Polyamorphism, important in biopolymers, is one of the most recently recognized features of the glassy state. See page 1939. Amorphous materials and glasses are the focus of a special section on Materials Science, which begins on page 1918. [Images: P. H. Poole, Dalhousie University, Halifax, Nova Scotia]