

NEWSLETTER GEOBRASIL

(www.geobrasil.net)

• NATURE

Dislocation-driven surface dynamics on solids 49
S. KODAMBAKA et al.
doi: 10.1038/nature02495
First paragraph | Full Text

Polymerization within a molecular-scale stereoregular template 52
TAKESHI SERIZAWA, KEN-ICHI HAMADA & MITSURU AKASHI
doi: 10.1038/nature02525
First paragraph | Full Text

Contribution of stratospheric cooling to satellite-inferred tropospheric temperature trends 55
QIANG FU, CELESTE M. JOHANSON, STEPHEN G. WARREN & DIAN J. SEIDEL
doi: 10.1038/nature02524
First paragraph | Full Text

Partitioning of oxygen during core formation on the Earth and Mars 58
DAVID C. RUBIE, CHRISTINE K. GESSMANN & DANIEL J. FROST
doi: 10.1038/nature02473
First paragraph | Full Text

• SCIENCE

Space weathering on airless planetary bodies: Clues from the lunar mineral hapkeite
Mahesh Anand, Lawrence A. Taylor, Mikhail A. Nazarov, J. Shu, H.-K. Mao, and Russell J. Hemley
Proc. Natl. Acad. Sci. USA 4 May 2004; 101(18): p. 6847-6851
<http://www.pnas.org/cgi/content/abstract/101/18/6847?ct>

Spatial Distribution of Soil Carbon in Southern New England Hardwood Forest Landscapes
Aletta A. Davis, Mark H. Stolt, and Jana E. Compton
Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 895-903
<http://soil.scijournals.org/cgi/content/abstract/68/3/895?ct>

A Case-based Reasoning Approach to Fuzzy Soil Mapping
Xun Shi, A-Xing Zhu, James E. Burt, Feng Qi, and Duane Simonson
Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 885-894
<http://soil.scijournals.org/cgi/content/abstract/68/3/885?ct>

Element Redistribution along Hydraulic and Redox Gradients of Low-Centered Polygons, Lena Delta, Northern Siberia
S. Fiedler, D. Wagner, L. Kutzbach, and E.-M. Pfeiffer
Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 1002-1011
<http://soil.scijournals.org/cgi/content/abstract/68/3/1002?ct>

Organic Matter Oxidation Potential Determination in a Periodically Flooded Histosol under Sugarcane
D. R. Morris, B. Glaz, and S. H. Daroub
Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 994-1001
<http://soil.scijournals.org/cgi/content/abstract/68/3/994?ct>

Reforestation and Topography Affect Montane Soil Properties, Nitrogen Pools, and Nitrogen Transformations in Hawaii
Paul G. Scowcroft, Janis E. Haraguchi, and Nguyen V. Hue
Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 959-968
<http://soil.scijournals.org/cgi/content/abstract/68/3/959?ct>

Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils

Brian A. Needelman, William J. Gburek, Gary W. Petersen, Andrew N. Sharpley, and Peter J. A. Kleinman

Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 914-923

<http://soil.scijournals.org/cgi/content/abstract/68/3/914?ct>

Contributions of Edward Elway Free to American Soil Science in the Early 1900s

Eric C. Brevik

Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 904-906

<http://soil.scijournals.org/cgi/content/abstract/68/3/904?ct>

Forest Soil Productivity of Mined Land in the Midwestern and Eastern Coalfield Regions

J. A. Rodrigue and J. A. Burger

Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 833-844

<http://soil.scijournals.org/cgi/content/abstract/68/3/833?ct>

Oxidation Potentials of Soil Organic Matter in Histosols under Different Tillage Methods

D. R. Morris, R. A. Gilbert, D. C. Reicosky, and R. W. Gesch

Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 817-826

<http://soil.scijournals.org/cgi/content/abstract/68/3/817?ct>

Critical Coagulation Concentration of Paddy Soil Clays in Sodium-Ferrous Iron Electrolyte

Atinut Saejiew, Olivier Grunberger, Somsri Arunin, Fabienne Favre, Daniel Tessier, and Pascal Boivin

Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 789-794

<http://soil.scijournals.org/cgi/content/abstract/68/3/789?ct>

Your Science CiteTrack Alert has found 2 articles matching your criteria in Soil Sci. Soc. Am. J.. Below are results 1 to 2.

Alert Criteria

Anywhere in Article: geochemistry

Element Redistribution along Hydraulic and Redox Gradients of Low-Centered Polygons, Lena Delta, Northern Siberia

S. Fiedler, D. Wagner, L. Kutzbach, and E.-M. Pfeiffer

Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 1002-1011

<http://soil.scijournals.org/cgi/content/abstract/68/3/1002?ct>

Predicting Boron Adsorption Isotherms by Midwestern Soils using the Constant Capacitance Model

Sabine Goldberg, Donald L. Suarez, Nicholas T. Basta, and Scott M.

Lesch

Soil Sci. Soc. Am. J. 1 May 2004; 68(3): p. 795-801

<http://soil.scijournals.org/cgi/content/abstract/68/3/795?ct>

Isolation, Characterization, and U(VI)-Reducing Potential of a Facultatively Anaerobic, Acid-Resistant Bacterium from Low-pH, Nitrate- and U(VI)-Contaminated Subsurface Sediment and Description of *Salmonella subterranea* sp. nov.

Evgenya S. Shelobolina, Sara A. Sullivan, Kathleen R. O'Neill, Kelly P. Nevin, and Derek R. Lovley

Appl. Environ. Microbiol. 1 May 2004; 70(5): p. 2959-2965

<http://aem.asm.org/cgi/content/abstract/70/5/2959?ct>

Stable Isotope Fractionation Caused by Glycyl Radical Enzymes during Bacterial Degradation of Aromatic Compounds

Barbara Morasch, Hans H. Richnow, Andrea Vieth, Bernhard Schink, and

Rainer U. Meckenstock

Appl. Environ. Microbiol. 1 May 2004; 70(5): p. 2935-2940

<http://aem.asm.org/cgi/content/abstract/70/5/2935?ct>

Influence of Precipitation and Soil on Transport of Fecal Enterococci in Fractured Limestone Aquifers

Fulvio Celico, Mario Varcamonti, Marco Guida, and Gino Naclerio

Appl. Environ. Microbiol. 1 May 2004; 70(5): p. 2843-2847
<http://aem.asm.org/cgi/content/abstract/70/5/2843?ct>

Modification of Spatial Distribution of 2,4-Dichlorophenoxyacetic Acid Degradation Microhabitats during Growth in Soil Columns

C. Pallud, A. Dechesne, J. P. Gaudet, D. Debouzie, and G. L. Grundmann
Appl. Environ. Microbiol. 1 May 2004; 70(5): p. 2709-2716
<http://aem.asm.org/cgi/content/abstract/70/5/2709?ct>

Bacterial Spelunkers

Linda Rowan

Science 7 May 2004; 304(5672): p. 799a

<http://www.sciencemag.org/cgi/content/summary/304/5672/799a?ct>

Post-Perovskite Phase Transition in MgSiO₃

Motohiko Murakami, Kei Hirose, Katsuyuki Kawamura, Nagayoshi Sata, and Yasuo Ohishi

Science 7 May 2004; 304(5672): p. 855-858

<http://www.sciencemag.org/cgi/content/abstract/304/5672/855?ct>

Early Proterozoic Ultrahigh Pressure Metamorphism: Evidence from Microdiamonds

Pierre Cartigny, Ingrid Chinn, K. S. Viljoen, and Derek Robinson

Science 7 May 2004; 304(5672): p. 853-855

<http://www.sciencemag.org/cgi/content/abstract/304/5672/853?ct>

A New Paradigm for Earth's Core-Mantle Boundary

Edward J. Garnero

Science 7 May 2004; 304(5672): p. 834-836

<http://www.sciencemag.org/cgi/content/summary/304/5672/834?ct>

Here There Be Whorls

Science 7 May 2004; 304(5672): p. 820a

<http://www.sciencemag.org/cgi/content/summary/304/5672/820a?ct>

NSFSays Ocean Drilling Is #1

Science 7 May 2004; 304(5672): p. 807b

<http://www.sciencemag.org/cgi/content/summary/304/5672/807b?ct>

GLOBAL CHANGE: Getting Warmer, However You Measure It

Richard A. Kerr

Science 7 May 2004; 304(5672): p. 805a-807a

<http://www.sciencemag.org/cgi/content/summary/304/5672/805a?ct>

Deep Phase Transformation

Science 7 May 2004; 304(5672): p. 791g

<http://www.sciencemag.org/cgi/content/summary/304/5672/791g?ct>

The Low Down on Old Diamonds

Science 7 May 2004; 304(5672): p. 791d

<http://www.sciencemag.org/cgi/content/summary/304/5672/791d?ct>

The people interested in receiving our newsletter through mail, can write to acfonseca@geobrasil.net or revistadegeologia@yahoo.com.br

******Le persone interessate in ricevere la nostra newsletter tramite e-mail, possono scrivere ad acfonseca@geobrasil.net ou revistadegeologia@yahoo.com.br.***