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SCIENCE

IAPC

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## ÍNDICE DE NOTÍCIAS

### JORNAL DA CIENCIA

Edição 4386 - Notícias de C&T - Serviço da SBPC

1. Relatório do Código Florestal será lido na CMA na segunda e votado na quarta
2. Especialistas alertam para risco de escassez de água
3. Cientistas participam de diálogos sobre a biodiversidade em Brasília
4. Amazônia está longe de cumprir Objetivos de Desenvolvimento do Milênio, mostra relatório
5. Impactos de médio e longo prazo para a biodiversidade preocupam cientistas
6. Dilma intervém, e decisão de royalties fica para 2012
7. Engenharia de Sistemas Complexos para o Século XXI
8. Carta da Anpepp, Reneto e Abrapso
9. Lua de Júpiter tem lagos pouco abaixo de superfície gelada
10. A escassez de talentos, do Brasil à China
11. Dilma anuncia investimento de R\$ 150 milhões da Finep para tecnologias assistivas
12. Double Chooz produz primeiro resultado de uma nova geração de experimentos com neutrinos de reatores
13. A ética do uso de embriões humanos na experimentação científica
14. Parceria internacional em biotecnologia beneficia pequeno agricultor
15. Cooperação internacional pode auxiliar transferência de tecnologias em alimentos
16. Lançamentos de livro e site resgatam história da divulgação científica brasileira
17. Curso de Pós-graduação intensivo de Bioinformática Integrativa
18. Dependência tecnológica é tema do Colóquio de Engenharia Química 2011
19. Patrimônio Arqueológico da Bahia é tema de livro

Edição 4385 - Notícias de C&T - Serviço da SBPC

1. Moção contra a transferência das competências relativas ao ensino superior para o MCTI
2. Relatório do Código Florestal será lido amanhã na CMA
3. Ciência, tecnologia e inovação: e agora?
4. Dados do Censo 2010 confirmam redução do analfabetismo
5. Estados não cumprem lei do piso nacional para professor
6. Comissão do Trabalho aprova criação da Universidade Federal do Cariri
7. Microbiota do sistema digestivo
8. Brasil está pronto para aderir ao sistema internacional de registro de marcas, avalia INPI
9. Einstein realiza primeira cirurgia de ponte de safena por meio de um robô
10. UFRN aprova proposta de criação do Instituto de Medicina Tropical
11. Apresentação de resultados de pesquisas do Programa Primeiros Projetos no Amapá
12. Tributação indireta e injustiça fiscal
13. CNPq 60 anos: ganhador do Nobel em Física palestra em Brasília
14. Operação Brasil-Alemanha lança dois foguetes na Barreira do Inferno

15. Inpe sediará projeto internacional sobre o impacto do homem e das mudanças globais no ambiente terrestre
16. Capes e Inmetro divulgam edital para apoiar o segmento de metrologia e qualidade
17. Concurso para projeto gráfico da 27ª Reunião Anual da FeSBE
18. Duas vagas para professor na UVV
19. UFABC promove workshop internacional em modelagem matemática e computacional em neurociência

#### **Edição 4384 - Notícias de C&T - Serviço da SBPC**

1. Comissão discutirá vinculação de royalties do petróleo para Educação
2. Governo trabalha por ajustes em seis aspectos do novo Código Florestal
3. SBPC na Argentina: Estudos mostram necessidade de revisão de normas sobre a exposição de trabalhadores ao mercúrio
4. Relator defende criação de fundo para prevenir catástrofes
5. Novo sistema de monitoramento de organismos geneticamente modificados aprovado na CTNBio
6. Plano Brasil Maior injeta R\$ 4,2 bi em ações de fomento
7. Brasil começa a acordar para a inovação
8. Trabalho aprova criação de universidade do Sul e Sudeste do Pará
9. O ato de aprender e ensinar, questão ética
10. Pesquisa mostra que apenas 2% dos jovens querem ser professores
11. Aos 35 anos, Unesp quer visibilidade
12. Magistério, uma profissão em extinção?
13. Paraíso do Atlântico dará pistas para mudanças do clima na Terra
14. Do UCA às tabletas: onde está a banda larga?
15. Encontro discute Mídia e Ciência
16. O governo da poluição
17. UFMG abre cinco vagas para professor temporário
18. Uenf abre seleção para recém-doutor
19. Workshop aborda tecnologia de infravermelho

#### **SCIENCE**

Element diffusion rates in lunar granulitic breccias: Evidence for contact metamorphism on the Moon

Jillian A. Hudgins, John G. Spray, and Christopher D. Hawkes  
 American Mineralogist. 2011; 96(11-12): p. 1673-1685

<http://ammin.geoscienceworld.org/cgi/content/abstract/96/11-12/1673?ct=ct>

Tackling "Wicked Problems" in Planning Studio Courses

Katia Balassiano  
 Journal of Planning Education and Research. 2011; 31(4): p. 449-460

<http://jpe.sagepub.com/cgi/content/abstract/31/4/449?ct=ct>

Three-dimensional tomographic model of the crust beneath the Hong Kong region

Shaohong Xia, Xuelin Qiu, C.H. Tong, Huilong Xu, and Minghui Zhao  
 Geology. published 14 November 2011, 10.1130/G32537.1

<http://geology.gsapubs.org/cgi/content/abstract/G32537.1v1?ct=ct>

Nonlinear response of summer temperature to Holocene insolation forcing in Alaska

Benjamin F. Clegg, Ryan Kelly, Gina H. Clarke, Ian R. Walker, and Feng Sheng Hu

PNAS. published 14 November 2011, 10.1073/pnas.1110913108

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Replacement of pyrrhotite by pyrite and marcasite under hydrothermal conditions up to 220 {degrees}C: An experimental study of reaction textures and mechanisms

Gujie Qian, Fang Xia, Joel Brugger, William M. Skinner, Jiafang Bei, Guorong Chen, and Allan Pring

American Mineralogist. 2011; 96(11-12): p. 1878-1893

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Analysis of hydrogen in olivine by SIMS: Evaluation of standards and protocol

Jed L. Mosenfelder, Marion Le Voyer, George R. Rossman, Yunbin Guan, David R. Bell, Paul D. Asimow, and John M. Eiler

American Mineralogist. 2011; 96(11-12): p. 1725-1741

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In situ ion-microprobe determination of trace element partition coefficients for hornblende, plagioclase, orthopyroxene, and apatite in equilibrium with natural rhyolitic glass, Little Glass Mountain Rhyolite, California

- James G. Brophy, Tsutomu Ota, Tak Kunihro, Tatsuki Tsujimori, and Eizo Nakamura  
American Mineralogist. 2011; 96(11-12): p. 1838-1850  
<http://ammin.geoscienceworld.org/cgi/content/abstract/96/11-12/1838?ct=ct>
- Crystal chemistry of Ti-rich ferriallanite-(Ce) from Cape Ashizuri, Shikoku Island, Japan  
Mariko Nagashima, Teruyoshi Imaoka, and Kazuo Nakashima  
American Mineralogist. 2011; 96(11-12): p. 1870-1877  
<http://ammin.geoscienceworld.org/cgi/content/abstract/96/11-12/1870?ct=ct>
- Argandite,  $Mn_7(VO_4)_2(OH)_8$ , the V analogue of allactite from the metamorphosed Mn ores at Pipji, Turtmann Valley, Switzerland  
Joel Brugger, Peter Elliott, Nicolas Meisser, and Stefan Ansermet  
American Mineralogist. 2011; 96(11-12): p. 1894-1900  
<http://ammin.geoscienceworld.org/cgi/content/abstract/96/11-12/1894?ct=ct>
- A reinvestigation of smectite illitization in experimental hydrothermal conditions: Results from X-ray diffraction and transmission electron microscopy--Discussion  
Douglas M. Yates and Philip E. Rosenberg  
American Mineralogist. 2011; 96(11-12): p. 1901-1902  
<http://ammin.geoscienceworld.org/cgi/content/full/96/11-12/1901?ct=ct>
- Ammonium vermiculite in schists from the Betic Cordillera (Spain)  
M.D. Ruiz Cruz  
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<http://ammin.geoscienceworld.org/cgi/content/abstract/96/11-12/1703?ct=ct>
- Methods to analyze metastable and microparticulate hydrated and hydrous iron sulfate minerals  
Brendt C. Hyde, Penelope L. King, M. Darby Dyar, Michael N. Spilde, and Abdul-Mehdi S. Ali  
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- The crystal structure of franckeite,  $Pb_{21.7}Sn_9.3Fe_4.0Sb_8.1S_{56.9}$   
E. Makovicky, V. Petricek, M. Dusek, and D. Topa  
American Mineralogist. 2011; 96(11-12): p. 1686-1702  
<http://ammin.geoscienceworld.org/cgi/content/abstract/96/11-12/1686?ct=ct>
- An atomic force microscopy study of diamond dissolution features: The effect of H<sub>2</sub>O and CO<sub>2</sub> in the fluid on diamond morphology  
Yana Fedortchouk, Murli H. Manghnani, Anwar Hushur, Andrei Shiryayev, and Fabrizio Nestola  
American Mineralogist. 2011; 96(11-12): p. 1768-1775  
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- Electrical conductivity of albite at high temperatures and high pressures  
Haiying Hu, Heping Li, Lidong Dai, Shuangming Shan, and Chengming Zhu  
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<http://ammin.geoscienceworld.org/cgi/content/abstract/96/11-12/1821?ct=ct>
- Crystal-chemical and structural characterization of fluorapatites in ejecta from Somma-Vesuvius volcanic complex  
Manuela Rossi, Maria Rosaria Ghiara, Giuseppe Chita, and Francesco Capitelli  
American Mineralogist. 2011; 96(11-12): p. 1828-1837  
<http://ammin.geoscienceworld.org/cgi/content/abstract/96/11-12/1828?ct=ct>
- Unraveling the stacking structure in tubular halloysite using a new TEM with computer-assisted minimal-dose system  
Toshihiro Kogure, Kiyofumi Mori, Yoshihide Kimura, and Yoshizo Takai  
American Mineralogist. 2011; 96(11-12): p. 1776-1780  
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- To what extent is altitudinal variation of functional traits driven by genetic adaptation in European oak and beech?  
Caroline C. Bresson, Yann Vitasse, Antoine Kremer, and Sylvain Delzon  
Tree Physiol. 2011; 31(11): p. 1164-1174  
<http://treephys.oxfordjournals.org/cgi/content/abstract/31/11/1164?ct=ct>
- Identification of Fecal Input Sites in Spring Water by Selection and Genotyping of Multiresistant *Escherichia coli*

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Appl. Envir. Microbiol. 2011; 77(23): p. 8427-8433  
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N. N. Jibiri and I. C. Okeyode  
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Natural Selection in Gene-Dense Regions Shapes the Genomic Pattern of Polymorphism in Wild and Domesticated Rice  
Jonathan M. Flowers, Jeanmaire Molina, Samara Rubinstein, Pu Huang, Barbara A. Schaal, and Michael D. Purugganan  
Mol. Biol. Evol. published 16 November 2011, 10.1093/molbev/msr225  
<http://mbe.oxfordjournals.org/cgi/content/abstract/msr225v3?ct=ct>

Hierarchy, causation and explanation: ubiquity, locality and pluralism  
Alan C. Love  
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<http://rsfs.royalsocietypublishing.org/cgi/content/abstract/rsfs.2011.0064v1?ct=ct>

Geology of the Didipio Region and Genesis of the Dinkidi Alkalic Porphyry Cu-Au Deposit and Related Pegmatites, Northern Luzon, Philippines  
Rohan C. Wolfe and David R. Cooke  
Economic Geology. 2011; 106(8): p. 1279-1315  
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Philippine Porphyry and Epithermal Deposits: An Introduction  
David R. Cooke, Pete Hollings, and Zhaoshan Chang  
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Calculating anisotropic physical properties from texture data using the MTEX open-source package  
David Mainprice, Ralf Hielscher, and Helmut Schaeben  
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<http://sp.lyellcollection.org/cgi/content/abstract/360/1/175?ct=ct>

Geochemistry of Tertiary Igneous Rocks of Northern Luzon, Philippines: Evidence for a Back-Arc Setting for Alkalic Porphyry Copper-Gold Deposits and a Case for Slab Roll-Back?  
Pete Hollings, Rohan Wolfe, David R. Cooke, and Patrick J. Waters  
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<http://economicgeology.org/cgi/content/abstract/106/8/1257?ct=ct>

Evidence for Magmatic-Hydrothermal Fluids and Ore-Forming Processes in Epithermal and Porphyry Deposits of the Baguio District, Philippines  
David R. Cooke, Cari L. Deyell, Patrick J. Waters, Rene I. Gonzales, and Khin Zaw  
Economic Geology. 2011; 106(8): p. 1399-1424  
<http://economicgeology.org/cgi/content/abstract/106/8/1399?ct=ct>

Igneous Geochemistry of Mineralized Rocks of the Baguio District, Philippines: Implications for Tectonic Evolution and the Genesis of Porphyry-Style Mineralization  
Pete Hollings, David R. Cooke, Patrick J. Waters, and Brian Cousens  
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<http://economicgeology.org/cgi/content/abstract/106/8/1317?ct=ct>

Porphyry and Epithermal Deposits and <sup>40</sup>Ar/<sup>39</sup>Ar Geochronology of the Baguio

#### District, Philippines

Patrick J. Waters, David R. Cooke, Rene I. Gonzales, and David Phillips  
Economic Geology. 2011; 106(8): p. 1335-1363

<http://economicgeology.org/cgi/content/abstract/106/8/1335?ct=ct>

#### Exploration Tools for Linked Porphyry and Epithermal Deposits: Example from the Mankayan Intrusion-Centered Cu-Au District, Luzon, Philippines

Zhaoshan Chang, Jeffrey W. Hedenquist, Noel C. White, David R. Cooke, Michael Roach, Cari L. Deyell, Joey Garcia, Jr, J. Bruce Gemmill, Stafford McKnight, and Ana Liza Cuison  
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#### The Trace Metal Chemistry of Deep Geothermal Water, Palinpinon Geothermal Field, Negros Island, Philippines: Implications for Precious Metal Deposition in Epithermal Gold Deposits

Andrew J. Rae, David R. Cooke, and Kevin L. Brown  
Economic Geology. 2011; 106(8): p. 1425-1446

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#### Exploration Applications of Copper Isotopes in the Supergene Environment: A Case Study of the Bayugo Porphyry Copper-Gold Deposit, Southern Philippines

David Braxton and Ryan Mathur  
Economic Geology. 2011; 106(8): p. 1447-1463

<http://economicgeology.org/cgi/content/abstract/106/8/1447?ct=ct>

#### TRACE ELEMENT GEOCHEMISTRY OF ENARGITE IN THE MANKAYAN DISTRICT, PHILIPPINES

C. L. Deyell and J. W. Hedenquist  
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#### Diamonds in Nature: A Guide to Rough Diamonds

John Gurney  
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#### Geographical ecology of the palms (Arecaceae): determinants of diversity and distributions across spatial scales

Wolf L. Eiserhardt, Jens-Christian Svenning, W. Daniel Kissling, and Henrik Balslev

Ann. Bot. 2011; 108(8): p. 1391-1416

<http://aob.oxfordjournals.org/cgi/content/abstract/108/8/1391?ct=ct>

#### Biggest of Mass Extinctions Looking Even Worse

Science. 2011; 334(6058): p. 882-b

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#### An Unsung Carbon Sink

Christina Larson  
Science. 2011; 334(6058): p. 886-b-887-b

<http://www.sciencemag.org/cgi/content/summary/334/6058/886-b?ct=ct>

#### This Week's Section

Science. 2011; 334(6058): p. 880-a-881-a

<http://www.sciencemag.org/cgi/content/summary/334/6058/880-a?ct=ct>

#### Revolution Brings New Hopes for Libyan Archaeology

Martin Enserink  
Science. 2011; 334(6058): p. 885

<http://www.sciencemag.org/cgi/content/summary/334/6058/885?ct=ct>

#### Dreams of a Lithium Empire

Jean Friedman-Rudovsky  
Science. 2011; 334(6058): p. 896-897

<http://www.sciencemag.org/cgi/content/summary/334/6058/896?ct=ct>

China Looks to Balance Its Carbon Books

Li Jiao and Richard Stone

Science. 2011; 334(6058): p. 886-a-887-a

<http://www.sciencemag.org/cgi/content/summary/334/6058/886-a?ct=ct>

Calibrating the End-Permian Mass Extinction

Shu-zhong Shen, James L. Crowley, Yue Wang, Samuel A. Bowring, Douglas H. Erwin, Peter M. Sadler, Chang-qun Cao, Daniel H. Rothman, Charles M. Henderson, Jahandar Ramezani, Hua Zhang, Yanan Shen, Xiang-dong Wang, Wei Wang, Lin Mu, Wen-zhong Li, Yue-gang Tang, Xiao-lei Liu, Lu-jun Liu, Yong Zeng, Yao-fa Jiang, and Yu-gan Jin

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Biases in three-dimensional vorticity analysis using porphyroclast system: limits and application to natural examples

D. Iacopini, C. Frassi, R. Carosi, and C. Montomoli

Geological Society, London, Special Publications. 2011; 360(1): p. 301-318

<http://sp.lyellcollection.org/cgi/content/abstract/360/1/301?ct=ct>

Characterization of microstructures and interpretation of flow mechanisms in naturally deformed, fine-grained anhydrite by means of EBSD analysis

Rebecca C. Hildyard, David J. Prior, Elisabetta Mariani, and Daniel R. Faulkner

Geological Society, London, Special Publications. 2011; 360(1): p. 237-255

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The microstructural and rheological evolution of shear zones

Nicholas J. Austin

Geological Society, London, Special Publications. 2011; 360(1): p. 193-209

<http://sp.lyellcollection.org/cgi/content/abstract/360/1/193?ct=ct>

Crystal fabric development and slip systems in a quartz mylonite: an approach via transmission electron microscopy and viscoplastic self-consistent modelling

Luiz F. G. Morales, David Mainprice, Geoffrey E. Lloyd, and Richard D. Law

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## IAPC

### *Geology of Ore Deposits*

#### **Vol. 53, No. 5, 2011**

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Distributed worldwide by Springer. *Geology of Ore Deposits* ISSN 1075-7015.

Metal Sources of the Large Nezhdaninsky Orogenic Gold Deposit, Yakutia, Russia: Results of High-Precision MC-ICP-MS Analysis of Lead Isotopic Composition Supplemented by Data on Strontium Isotopes

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### *Geochemistry International*

#### **Vol. 49, No. 11, 2011**

A simultaneous English language translation of this journal is available from Pleiades Publishing, Ltd.

Distributed worldwide by Springer. *Geochemistry International* ISSN 0016-7029.

Estimation of the Composition of the Earth's Primary Aqueous Phase.

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