

**Нові надходження зарубіжних періодичних видань, якими  
комплектуються бібліотеки науково-дослідних установ Національної  
академії наук України**

Шановні користувачі! З 14 листопада по 1 грудня 2014 року в Залі іноземних періодичних видань (кімн. 313) експонується виставка нових надходжень зарубіжних періодичних видань, які передаються бібліотекам науково-дослідних установ НАН України.

**Журнали представлені на виставці:**

**1. Journal of the London Mathematical Society. – London. –  
ISSN 0024 -6107  
Volume 90, Issue 2, October 2014**

Статті, опубліковані в номері:

On the rank of higher inclusion matrices     *Codruț Grosu, Yury Person, and Tibor Szabó*

Maximal lengths of exceptional collections of line bundles     *Alexander I. Efimov*

Regular circle actions on 2-connected 7-manifolds     *Yi Jiang*

Exact dimensionality and projections of random self-similar measures and sets     *Kenneth J. Falconer and Xiong Jin*

Open Gromov–Witten invariants and SYZ under local conifold transitions     *Siu-Cheong Lau*

Kobayashi pseudometric on hyperkähler manifolds     *Ljudmila Kamenova, Steven Lu, and Misha Verbitsky*

Principally polarized abelian surfaces with surjective Galois representations on  $l$ -torsion     *Erik Wallace*

On the normality of numbers to different bases     *Verónica Becher and Theodore A. Slaman*

Overconvergent cohomology and quaternionic Darmon points     *Xavier Guitart and Marc Masdeu*

One-dimensional Gagliardo–Nirenberg–Sobolev inequalities: remarks on duality and flows     *Jean Dolbeault, Maria J. Esteban, Ari Laptev, Michael Loss*

Front propagation in nonlinear parabolic equations     *Eduard Feireisl, Danielle Hilhorst, Hana Petzeltová, and Peter Takáč*

Verbal subgroups of hyperbolic groups have infinite width     *Alexei Myasnikov and Andrey Nikolaev*

The cohomological support locus of pluri-canonical sheaves and the Iitaka fibration     *Lei Zhang*

The Borel cardinality of Lascar strong types     *Itay Kaplan, Benjamin D. Miller, and Pierre Simon*

Corrigendum: Generalizations of graded Clifford algebras and of complete intersections      *Thomas Cassidy and Michaela Vancliff*

*Журнал надходить до Інституту математики міста Києва.*

**2. Nagoya Mathematical Journal. – Tokyo. – ISSN 0027 -7630  
Volume 215, September 2014**

Статті, опубліковані в номері:

Modular forms of half-integral weights on  $SL(2, \mathbb{Z})$       *Yifan Yang*

Global well-posedness for a system of KdV-type equations with coupled quadratic nonlinearities      *Jerry L. Bona, Jonathan Cohen, and Gang Wang*

On operator-valued monotone independence      *Takahiro Hasebe and Hayato Saigo*

Generalized Lyubeznik numbers      *Luis Núñez-Betancourt and Emily E. Witt*

Polarized pairs, log minimal models, and Zariski decompositions      *Caucher Birkar and Zhengyu Hu*

Two remarks on polynomially bounded reducts of the restricted analytic field with exponentiation      *Serge Randriambololona*

*Журнал надходить до Інституту математики міста Києва.*

**3. Bulletin of the Belgian Mathematical Society - Simon Stevin. – Brussels. – ISSN 1370 -1444**

**Volume 21, Number 3, Juli - August - September 2014**

Статті, опубліковані в номері:

Hypercyclic behaviour of multiples of composition operators on weighted Banach spaces of holomorphic functions      *Yu-Xia Liang and Ze-Hua Zhou*

Some restrictions on the Betti numbers of a nilpotent Lie algebra      *Peyman Niroomand and Francesco G. Russo*

Construction of exact travelling waves for the Benjamin-Bona-Mahony equation on networks      *Delio Mugnolo and Jean-François Rault*

Ricci curvature of integral submanifolds of an  $f.p.k.$ -space form      *Mahmood Jaafari Matehkolaee*

The problems of  $n$ -valence in some classes of analytic functions      *Magdalena Sobczak-Kneć and Katarzyna Trąbka-Więclaw*

A modified scaled conjugate gradient method with global convergence for nonconvex functions      *Saman Babaie-Kafaki and Reza Ghanbari*

Notes on Remainders of Paratopological Groups *Hanfeng Wang and Wei He*  
Rank one groups and division pairs *Ottmar Loos*  
Zero products preserving maps from the Fourier algebra of amenable groups  
*Jafar Soltani Farsani*  
Local well posedness of a 2D semilinear heat equation *Slim Ibrahim, Rym  
Jrad, Mohamed Majdoub, and Tarek Saanouni*  
Volume differences of mixed complex projection bodies *Chang-Jian  
Zhao*  
Some results on AM-compact operators *Abdelmonaim El Kaddouri and  
Mohammed Moussa*

***Журнал надходить до Інституту математики міста Києва.***

**4. Acta Mathematica. – Uppsala. – ISSN 0001 -5962  
Volume 213, Issue 1, September 2014**

Статті, опубліковані в номері:

*K*-homology and index theory on contact manifolds *Paul F. Baum, Erik  
van Erp*  
Every finite group is the group of self-homotopy equivalences of an elliptic  
space *Cristina Costoya, Antonio Viruel*  
Gromov–Hausdorff limits of Kähler manifolds and algebraic geometry  
*Simon Donaldson, Song Sun*  
Square-free values of  $f(p)$ ,  $f$  cubic *Harald Andrés Helfgott*  
Rigidity around Poisson submanifolds *Ioan Mărcuț*

***Журнал надходить до Інституту математики міста Києва.***

**5. Commentationes Mathematicae Universitatis Carolinae. – Praha. –  
ISSN: 0010-2628  
Volume 55, Issue 3, September 2014**

Статті, опубліковані в номері:

Dihedral-like constructions of automorphic loops *M. Aboras*  
A  $\mathbb{Z}_4^3$ -grading on a 56-dimensional simple structurable algebra and related  
fine gradings on the simple Lie algebras of type  $E D$ . *Aranda-Orna, A. Elduque,  
M. Kochetov*  
Towards a geometric theory for left loops *K. Baez*  
An overview of free nilpotent Lie algebras *P. Benito, D. de-la-Concepción*

Free associative algebras, noncommutative Gröbner bases, and universal associative envelopes for nonassociative structures *M. R. Bremner*  
Seeable matter; unseeable antimatter *G. Dixon*  
A symplectic representation of  $E_7$  *T. Dray, C.A. Manogue, R.A. Wilson*  
A class of latin squares derived from finite abelian groups *A.B. Evans*  
Moufang semidirect products of loops with groups and inverse property extensions *M. Greer, L. Raney*

*Журнал надходить до Інституту математики міста Києва.*

**6. Applicable Analysis and Discrete Mathematics. – Belgrade. –  
ISSN 1452 -8630  
Volume 8, Number 2, October 2014**

Статті, опубліковані в номері:

On the generation of bipartite grids in 2 and 3 dimensional regions  
*Morales Fernando A., Osorio Mauricio A.*  
Asymptotics of a renewal-like recursion and an integral equation  
*Backhausz Agnes, Móri Tamás F.*  
Dichotomy and positivity of neutral equations with nonautonomous past  
*Huy Nguyen Thieu, Bang Pham Van*  
Online local volatility calibration by convex regularization *Albani  
Vinicius, Zubelli Jorge P.*  
On a first-order semipositone boundary value problem on a time scale  
*Goodrich Christopher S.*  
Restricted ascent sequences and Catalan numbers *Callan David, Mansour  
Toufik, Shattuck Mark*  
Some results for Carlitz's q-Bernoulli numbers and polynomials *He  
Yuan*  
Asymptotically optimal induced decompositions *Halász Veronika, Tuza  
Zsolt*  
Laplacian coefficients of unicyclic graphs with the number of leaves and  
girth *Zhang Jie, Zhang Xiao-Dong*  
More on the normalized Laplacian Estrada index *Shang Yilun*

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**7. RADIOISOTOPES. – Tokyo. – ISSN: 0033-8303  
Volume 63, Number 8, August 2014**

Статті, опубліковані в номері:

### **Article**

Study of Decomposition Mechanism for Inorganic-Layered Saponite Nanoparticle *Kazuomi NUMATA, Kiminori SATO, Koichiro FUJIMOTO, Kazuhiko FUJIWARA*

### **Technical Report**

Direct Measurement of Radioactive Carbon in Vietnamese Vodkas by Liquid Scintillation Counter *Takamitsu HATTORI*

### **Serial Lecture**

Basics and Applications of Mössbauer Spectrometry

Basics and Application of Scattering Mössbauer Spectrometry to Analysis of Solid Surface *Kiyoshi NOMURA*

*Журнал надходить до Інституту експериментальної патології, онкології і радіобіології ім. Р. Є. Кавецького міста Києва.*

## **8. RADIOISOTOPES. – Tokyo. – ISSN: 0033-8303**

**Volume 63, Number 9, September 2014**

Статті, опубліковані в номері:

### **Article**

Evaluation of the Reactivity of L-tyrosine in the T-for-H Exchange Reaction at Low Temperature *Noriaki KATAOKA, Naoyuki KANDA, Hiroshi IMAIZUMI, Naoki KANO*

### **Materials (Data)**

Radiation Education to Medical Residents —Their Understanding and Risk Perception of Radiation— *Naoki MATSUDA, Miwa MIURA, Motohiro YAMAUCHI, Koji OKUNO*

### **Review Article**

Monte Carlo Transport Calculation of Photon and Electron—Its Contents and Application *Yoshihito NAMITO, Hideo HIRAYAMA*

### **Serial Lecture**

**Neutron Scattering Study on Dynamics of Atomic and Molecular Motions**

III-2 Neutron Spectroscopy for Molecules Adsorbed on Solid Surfaces *Osamu YAMAMURO, Maiko KOFU*

*Журнал надходить до Інституту експериментальної патології, онкології і радіобіології ім. Р. Є. Кавецького міста Києва.*

**9. International Journal of Earth Sciences. – Heidelberg. – ISSN 1437 - 3254**

**Volume 103, Issue 7, October 2014**

Статті, опубліковані в номері:

## **Volatiles and Fluids in Subduction Zones**

### **Editorial**

Introduction to the special issue on SFB 574 “Volatiles and fluids in subduction zones: climate feedback and trigger mechanisms for natural disasters”

*A. Freundt, R. Halama, E. Suess, D. Völker*

Moho structure of Central America based on three-dimensional lithospheric density modelling of satellite-derived gravity data *O.H. Lücke*

The seismogenic zone in the Central Costa Rican Pacific margin: high-quality hypocentres from an amphibious network *I.G. Arroyo, S. Husen, E.R. Flueh*

Morphology and geology of the continental shelf and upper slope of southern Central Chile (33°S–43°S) *D. Völker, J. Geersen, E. Contreras-Reyes, S. Pantoja, W. Rabbel, M. Thorwart, C. Reichert, M. Block, W.R. Weinrebe*

Seismic swarms, fluid flow and hydraulic conductivity in the forearc offshore North Costa Rica and Nicaragua *M. Thorwart, Y. Dzierma, W. Rabbel, C. Hensen*

Seepage of methane at Jaco Scar, a slide caused by seamount subduction offshore Costa Rica *S. Mau, G. Rehder, H. Sahling, T. Schleicher, P. Linke*

Quantification of methane emission from bacterial mat sites at Quepos Slide offshore Costa Rica *D. Karaca, T. Schleicher, C. Hensen, P. Linke, K. Wallmann*

Formation of carbonate concretions in surface sediments of two mud mounds, offshore Costa Rica: a stable isotope study *V. Mavromatis, R. Botz, M. Schmidt, V. Liebetrau, C. Hensen*

Cold-seep-driven carbonate deposits at the Central American forearc: contrasting evolution and timing in escarpment and mound settings *V. Liebetrau, N. Augustin, S. Kutterolf, M. Schmidt, A. Eisenhauer, D. Garbe-Schönberg, W. Weinrebe*

Past methane release events and environmental conditions at the upper continental slope of the South China Sea: constraints by seep carbonates *X. Han, E. Suess, V. Liebetrau, A. Eisenhauer, Y. Huang*

### **REVIEW ARTICLE**

Marine cold seeps and their manifestations: geological control, biogeochemical criteria and environmental conditions *E. Suess*

### **ORIGINAL PAPERS**

Element signatures of subduction-zone fluids. An experimental study of the element partitioning ( $D^{\text{fluid/rock}}$ ) of natural partly altered igneous rocks from the ODP drilling site 1,256 *A. Mutter, A. Holzheid, A. Klügel, M. Wilke, J. Berndt, D. Garbe-Schönberg*

Insights from trace element geochemistry as to the roles of subduction zone geometry and subduction input on the chemistry of arc magmas *H.*

Wehrmann, K. Hoernle, D. Garbe-Schönberg, G. Jacques, J. Mahkle, K. Schumann

Volatile (sulphur and chlorine), major, and trace element geochemistry of mafic to intermediate tephras from the Chilean Southern Volcanic Zone (33–43°S)

H. Wehrmann, K. Hoernle, G. Jacques, D. Garbe-Schönberg, K. Schumann, J. Mahkle, L.E. Lara

Contrasting compositional trends of rocks and olivine-hosted melt inclusions from Cerro Negro volcano (Central America): implications for decompression-driven fractionation of hydrous magmas

M.V. Portnyagin, K. Hoernle, N.L. Mironov

SO<sub>2</sub> degassing from Turrialba Volcano linked to seismic signatures during the period 2008–2012

V. Conde, S. Bredemeyer, E. Duarte, J.F. Pacheco, S. Miranda, B. Galle, T.H. Hansteen

Synchronous degassing patterns of the neighbouring volcanoes Llaima and Villarrica in south-central Chile: the influence of tidal forces

S. Bredemeyer, T.H. Hansteen

### **Erratum**

Comparison of seismic activity for Llaima and Villarrica volcanoes prior to and after the Maule 2010 earthquake

C. Mora-Stock, M. Thorwart, T. Wunderlich, S. Bredemeyer, T.H. Hansteen, W. Rabbel

Probabilities of future VEI  $\geq 2$  eruptions at the Central American Volcanic Arc: a statistical perspective based on the past centuries' eruption record

Y. Dzierma, H. Wehrmann, S. Kutterolf, C. Burkert

Post-glacial time series of explosive eruptions and associated changes in the magma plumbing system of Lonquimay volcano, south central Chile

D. Gilbert, A. Freundt, S. Kutterolf...

Radiative forcing and climate impact resulting from SO<sub>2</sub> injections based on a 200,000-year record of Plinian eruptions along the Central American Volcanic Arc

D. Metzner, S. Kutterolf, M. Toohey, C. Timmreck, U. Niemeier, A. Freundt, K. Krüger

Nitrogen recycling in subducted mantle rocks and implications for the global nitrogen cycle

R. Halama, G.E. Bebout, T. John, M. Scambelluri

Volatile (H<sub>2</sub>O, CO<sub>2</sub>, Cl, S) budget of the Central American subduction zone

A. Freundt, I. Grevemeyer, W. Rabbel, T.H. Hansteen, C. Hensen, H. Wehrmann, S. Kutterolf, R. Halama, M. Frische

Constraining input and output fluxes of the southern-central Chile subduction zone: water, chlorine and sulfur

D. Völker, H. Wehrmann, S. Kutterolf, K. Lyer, W. Rabbel, J. Geersen, K. Hoernle

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**10. Geophysics. – Tulsa. – ISSN 016 -8033  
Volume 79, Number 4, July-August 2014**

Статті, опубліковані в номері:

### **Geophysics Letters**

A computationally efficient tool for assessing the depth resolution in large-scale potential-field inversion *Valeria Paoletti, Per Christian Hansen, Mads Friis Hansen, Maurizio Fedi*

### **Case Histories**

Detailed topography of the Devonian Grosmont Formation surface from legacy high-resolution seismic profiles, northeast Alberta *Elahe P. Ardakani, Douglas R. Schmitt, Todd D. Bown*

An audio-magnetotelluric investigation of the Otjiwarongo and Katima Mulilo regions, Namibia *Pieter-Ewald Share, Alan G. Jones, Mark R. Muller, David T. Khoza, Marion P. Miensopust, Susan J. Webb*

Cooperative constrained inversion of multiple electromagnetic data sets *Michael S. McMillan, Douglas W. Oldenburg*

Assessment of near-surface mapping capabilities by airborne transient electromagnetic data — An extensive comparison to conventional borehole data *Cyril Schamper, Flemming Jørgensen, Esben Auken, Flemming Effersø*

### **Anisotropy**

Direction dependence of fracture compliance induced by slickensides *M. Ahmadi, A. Dahi Taleghani, C. M. Sayers*

Fast algorithms for elastic-wave-mode separation and vector decomposition using low-rank approximation for anisotropic media *Jiubing Cheng, Sergey Fomel*

### **Borehole Geophysics and Rock Properties**

Simulation of the effect of stress-induced anisotropy on borehole compressional wave propagation *Xinding Fang, Michael C. Fehler, Arthur Cheng*

Stable Q analysis on vertical seismic profiling data *Yanghua Wang*

Empirical estimation of uniaxial compressive strength of shale formations *Mohsen Farrokhrouz, Mohammad Reza Asef, Riyaz Kharrat*

Prediction of seismic-wave velocities in rock at various confining pressures based on unconfined data *Ali Reza Najibi, Mohammad Reza Asef*

Pore-pressure prediction in carbonate rock using wavelet transformation *Fu Yu, Yan Jin, Kang Ping Chen, Mian Chen*

Rapid forward modeling of multidetector logging-while-drilling Sigma measurements *Edwin Ortega, Carlos Torres-Verdín, William E. Preeg*

### **Electrical and Electromagnetic Methods**

3D finite-element forward modeling of electromagnetic data using vector and scalar potentials and unstructured grids *Seyedmasoud Ansari, Colin G. Farquharson*

Sensitivity functions of transient electromagnetic methods *Niels B. Christensen*

### **Engineering and Environmental Geophysics**



Joint inversion of Rayleigh-wave dispersion and P-wave refraction data for laterally varying layered models *Daniele Boiero, Laura Valentina Socco*

Integrated 2D modeling and interpretation of geophysical and geotechnical data to delineate quick clays at a landslide site in southwest Sweden *Chunling Shan, Mehrdad Bastani, Alireza Malehmir, Lena Persson, Mats Engdahl*

Detection of sharp lateral discontinuities through the analysis of surface-wave propagation *Paolo Bergamo, Laura Valentina Socco*

### **Gravity Exploration Methods**

3D inversion of airborne gravity-gradiometry data using cokriging *Meixia Geng, Danian Huang, Qingjie Yang, Yinping Liu*

### **Ground-penetrating Radar**

Vertical radar profiling: Combined analysis of traveltimes, amplitudes, and reflections *Jens Tronicke, Göran Hamann*

### **Magnetic Exploration Methods**

Reducing the dependence of the analytic signal amplitude of aeromagnetic data on the source vector direction *Gordon R. J. Cooper*

The structural index in gravity and magnetic interpretation: Errors, uses, and abuses *Alan B. Reid, Jeffrey B. Thurston*

### **Poroelasticity**

Krauklis wave in a trilayer *Valeri Korneev, Ludmila Danilovskaya, Seiji Nakagawa, George Moridis*

### **Seismic Inversion**

Fast acoustic velocity tomography of focusing operators *Hu Jin, George A. McMechan*

Nonlinear joint inversion of tomographic data using swarm intelligence *Hendrik Paasche, Jens Tronicke*

Value of information analysis and Bayesian inversion for closed skew-normal distributions: Applications to seismic amplitude variation with offset data *Javad Rezaie, Jo Eidsvik, Tapan Mukerji*

### **Seismic Migration**

Staining algorithm for seismic modeling and migration *Bo Chen, Xiaofeng Jia*

Analytical approximations of diving-wave imaging in constant-gradient medium *Alexey Stovas, Tariq Alkhalifah*

Reverse time migration from topography *Jeffrey Shragge*

Least-squares migration in the presence of velocity errors *Simon Luo, Dave Hale*

### **Seismic Modeling and Wave Propagation**

An accuracy analysis of a Hamiltonian particle method with the staggered particles for seismic-wave modeling including surface topography *Junichi Takekawa, Hitoshi Mikada, Tada-nori Goto*

Numerical modeling of elastic-wave scattering by near-surface heterogeneities *Abdulaziz M. Almuheidib, M. Nafi Toksöz*

Numerical study of the interface errors of finite-difference simulations of seismic waves *Dmitry Vishnevsky, Vadim Lisitsa, Vladimir Tcheverda, Galina Reshetova*

The effects of near-source heterogeneity on shear-wave evolution  
*Christopher S. Sherman, James Rector, Steven Glaser*

A method for correcting acoustic finite-difference amplitudes for elastic effects  
*James W. D. Hobro, Chris H. Chapman, Johan O. A. Robertsson*

### **Signal Processing**

Nonstretch normal moveout through iterative partial correction and deconvolution  
*Ettore Biondi, Eusebio Stucchi, Alfredo Mazzotti*

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## **11. European Journal of Mineralogy. – Stuttgart. – ISSN 0935 -1221 Volume 26, Number 5, September, October 2014**

Статті, опубліковані в номері:

Axial thermal expansion and related thermophysical parameters in the Mg,Fe olivine solid-solution series *H. Kroll, A. Kirfel, R. Heinemann*

Oriented inclusions in apatite in a post-UHP fluid-mediated regime (Tromsø Nappe, Norway) *I. Broska, E.J. K. Ravná, P. Vojtko, M. Janák, P. Konečný, M. Pentrák, P. Bačík, J. Luptáková, K. Kullerud*

Petrographic classification of unusual high-pressure metamorphic rocks  
*R. Giustetto, R. Compagnoni*

Impact of swelling clays on the spalling decay of building limestones: insights from X-ray diffraction profile modeling *J. Berthonneau, O. Grauby, E. Ferrage, J.-M. Vallet, P. Bromblet, D. Dessandier, D. Chaudanson, A. Baronnet*

Influence of thermal equilibrium and microstructure of dense zircon-doped dolomite refractories on rate of hydration and slag attack  
*A.M. Soltan, M. Serry*

Koksharovite,  $\text{CaMg}_2\text{Fe}^{3+}_4(\text{VO}_4)_6$ , and grigorievite,  $\text{Cu}_3\text{Fe}^{3+}_2\text{Al}_2(\text{VO}_4)_6$ , two new howardevansite-group minerals from volcanic exhalations  
*I.V. Pekov, N.V. Zubkova, V.O. Yapaskurt, P.M. Kartashov, Y.S. Polekhovsky, M.N. Murashko, D.Y. Pushcharovsky*

The arrojadite enigma III. The incorporation of volatiles: a polarised FTIR spectroscopy study  
*G. Della Ventura, F. Bellatreccia, F. Radica, C. Chopin, R. Oberti*

Nafertisite,  $\text{Na}_3\text{Fe}^{2+}_{10}\text{Ti}_2(\text{Si}_6\text{O}_{17})_2\text{O}_2(\text{OH})_6\text{F}(\text{H}_2\text{O})_2$ , from Mt. Kukisvumchorr, Khibiny alkaline massif, Kola peninsula, Russia: Refinement of the crystal structure and revision of the chemical formula  
*F. Cámara, E. Sokolova, Y. A. Abdu, F. C. Hawthorne*

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**12. Monthly Weather Review. – Boston. – ISSN 0027 -0644  
Volume 142, Issue 9, September 2014**

Статті, опубліковані в номері:

**PICTURE OF THE MONTH**

A Multiple-Vortex Tornado in Southeastern Brazil *Ernani de Lima Nascimento, Gerhard Held, Ana Maria Gomes*

**ARTICLES**

Analysis of a Destructive Wind Storm on 16 November 2008 in Brisbane, Australia *Harald Richter, Justin Peter, Scott Collis*

The Role of Convective Outflow in the Waldo Canyon Fire *Richard H. Johnson, Russ S. Schumacher, James H. Ruppert Jr., Daniel T. Lindsey, Julia E. Ruthford, Lisa Kriederman*

Precipitation Banding in Idealized Baroclinic Waves *Jesse Norris, Geraint Vaughan, David M. Schultz*

Diabatic Heating and Cooling Rates Derived from In Situ Microphysics Measurements: A Case Study of a Wintertime U.K. Cold Front *C. Dearden, P. J. Connolly, G. Lloyd, J. Crosier, K. N. Bower, T. W. Choularton, G. Vaughan*

Surface Microphysical Observations within East Coast Winter Storms on Long Island, New York *Brian A. Colle, David Stark, Sandra E. Yuter*

A 10-Year Survey of Extreme Rainfall Events in the Central and Eastern United States Using Gridded Multisensor Precipitation Analyses *Stephanie N. Stevenson, Russ S. Schumacher*

ISO-Modulating Effects on the East Asian Summer Monsoon Circulation Patterns Associated with Southern Taiwan's Monsoon Rainfall *Ken-Chung Ko, Po-Sheng Chiu*

Moisture Variability and Multiscale Interactions during Spring in West Africa *Roberto Mera, Arlene G. Laing, Frederick Semazzi*

An Airborne Study of an Atmospheric River over the Subtropical Pacific during WISPAR: Dropsonde Budget-Box Diagnostics and Precipitation Impacts in Hawaii *Paul J. Neiman, Gary A. Wick, Benjamin J. Moore, F. Martin Ralph, J. Ryan Spackman, Bill Ward*

Mesoscale Convective Systems in Relation to African and Tropical Easterly Jets *L. Besson, Y. Lemaître*

Ensemble Kalman Filter Analyses and Forecasts of a Severe Mesoscale Convective System Using Different Choices of Microphysics Schemes *Dustan M. Wheatley, Nusrat Yussouf, David J. Stensrud*

The Three-Dimensional Morphology of Simulated and Observed Convective Storms over Southern England *Thorwald H. M. Stein, Robin J. Hogan, Kirsty E.*

*Hanley, John C. Nicol, Humphrey W. Lean, Robert S. Plant, Peter A. Clark, Carol E. Halliwell*

Convectively Induced Secondary Circulations in Fine-Grid Mesoscale Numerical Weather Prediction Models *J. Ching, R. Rotunno, M. LeMone, A. Martilli, B. Kosovic, P. A. Jimenez, J. Dudhia*

GSI-Based Four-Dimensional Ensemble–Variational (4DEnsVar) Data Assimilation: Formulation and Single-Resolution Experiments with Real Data for NCEP Global Forecast System *Xuguang Wang, Ting Lei*

Some Observing System Simulation Experiments with a Hybrid 3DEnVAR System for Storm-Scale Radar Data Assimilation *Jidong Gao, David J. Stensrud*

Intercomparison and Coupling of Ensemble and Four-Dimensional Variational Data Assimilation Methods for the Analysis and Forecasting of Hurricane Karl (2010) *Jonathan Poterjoy, Fuqing Zhang*

Long-Lived Concentric Eyewalls in Typhoon Soulik (2013) *Yi-Ting Yang, Eric A. Hendricks, Hung-Chi Kuo, Melinda S. Peng*

Observations of the Eyewall Structure of Typhoon Sinlaku (2008) during the Transformation Stage of Extratropical Transition *Annette M. Foerster, Michael M. Bell, Patrick A. Harr, Sarah C. Jones*

Eye and Eyewall Traits as Determined with the NOAA WP-3D Lower-Fuselage Radar *Carl E. Barnes, Gary M. Barnes*

LES of a Spatially Developing Atmospheric Boundary Layer: Application of a Fringe Method for the Stratocumulus to Shallow Cumulus Cloud Transition *M. Inoue, G. Matheou, J. Teixeira*

On the Representation of High-Latitude Boundary Layer Mixed-Phase Cloud in the ECMWF Global Model *Richard M. Forbes, Maike Ahlgrimm*

The Impact of Horizontal Model Grid Resolution on the Boundary Layer Structure over an Idealized Valley *Johannes S. Wagner, Alexander Gohm, Mathias W. Rotach*

A Scale-Consistent Terrestrial Systems Modeling Platform Based on COSMO, CLM, and ParFlow *P. Shrestha, M. Sulis, M. Masbou, S. Kollet, C. Simmer*

Heteroscedastic Ensemble Postprocessing *Elizabeth A. Satterfield, Craig H. Bishop*

***Журнал надходить до Морського гідрофізичного інституту міста Севастополя.***

**13. Bulletin of the American Meteorological Society. – Boston. – ISSN 0003 -0007**

**Volume 95, Issue 8, August 2014**

Статті, опубліковані в номері:

**NOWCAST: OUTREACH**

The St. Louis Ozone Gardens: Visualizing the Impact of a Changing Atmosphere *Jack Fishman, Kelley M. Belina, Cindy H. Encarnación*

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Air–Sea Interactions from Westerly Wind Bursts During the November 2011 MJO in the Indian Ocean *J. N. Moum et al.*

Crossing the “Valley of Death”: Lessons Learned from Implementing an Operational Satellite-Based Flood Forecasting System *F. Hossain et al.*

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A Decade of Climate Scenarios: The Ouranos Consortium Modus Operandi *D. Huard et al.*

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Decadal Climate Variability and Cross-Scale Interactions: ICCL 2013 Expert Assessment Workshop *N. J. Holbrook et al.*

Climate Variability and Predictions: A NOAA–USAID Global Climate Training Workshop Series *W. M. Thiaw et al.*

The Atlantic Overturning Circulation: More Evidence of Variability and Links to Climate *J. A. Carton et al.*

***Журнал надходить до Інституту іоносфери міста Харкова.***

**14. Plant Ecology and Evolution. – Meise. – ISSN 2032 -3913  
Volume 147, Number 3, 6 November 2014**

Статті, опубліковані в номері:

**Homages**

Pierre Compère: a personal tribute *B. Van de Vijver*

The phycologist Pierre Compère: his contribution to cyanobacterial studies  
*S. Golubic, A. Wilmotte*

**Regular Papers**

A complete catalogue of algal taxa described by Pierre Compère *A. Bogaerts, M. de Haan, B. Van de Vijver, C. Cocquyt*

Diatom responses to zinc contamination along a Mediterranean river *S. Morin, N. Corcoll, B. Bonet, A. Tlili, H. Guasch*

Molecular evidence for the polyphyletic origin of low pH adaptation in the genus *Klebsormidium* (Klebsormidiophyceae, Streptophyta) P. Škaloud, A. Lukešová, V. Malavasi, D. Ryšánek, K. Hrkčková, F. Rindi

Frustular morphology and polyphyly in freshwater *Denticula* (Bacillariophyceae) species, and the description of *Tetralunata* gen. nov. (Epithemiaceae, Rhopalodiales) S.E. Hamsher, C.L. Graeff, J.G. Stepanek, J.P. Kociolek

What constitutes *Gomphonema parvulum*? Long-term culture studies show that some varieties of *G. parvulum* belong with other *Gomphonema* species

D.T. Rose, E.J. Cox

Revision of the genus *Halamphora* (Bacillariophyta) in the Antarctic Region

B. Van de Vijver, K. Kopalová, R. Zidarova, Z. Levkov

New or otherwise interesting desmid taxa from the Bangweulu region (Zambia). 1. Genera *Micrasterias* and *Allorgeia* (Desmidiaceae) P.F.M. Coesel, A. van Geest

Splitting of *Micrasterias fimbriata* (Desmidiaceae, Viridiplantae) into two monophyletic species and description of *Micrasterias compereana* sp. nov. J. Neustupa, J. Št'astný, P. Škaloud,

A re-investigation of Otto Müller's *Cymatopleura* taxa (Bacillariophyta) from East Africa C. Cocquyt, R. Jahn

Two closely-related species of *Cocconeis* (Bacillariophyta): comparative study and typification Romero, Oscar E.; Riaux-Gobin, Catherine

Type analysis of the South American diatom *Achnanthes haynaldii* (Bacillariophyta) and description of *Planothidium amphibium* sp. nov., from aerial and aquatic environments in Oregon (USA) C.E. Wetzel, B. Van de Vijver, K. Kopalová, L. Hoffmann, L. Pfister, L. Ector

### Short Communications

*Planothidium comperei* sp. nov. (Bacillariophyta), a new diatom species from Ivory Coast K.R. N'Guessan, C.E. Wetzel, L. Ector, M. Coste, C. Cocquyt, B. Van de Vijver, S.S. Yao, A. Ouattara, E.P. Kouamelan, J. Tison-Rosebery

*Navicula pierre-comperei* sp. nov. (Bacillariophyta), a small benthic diatom recently observed in several Central European rivers H. Lange-Bertalot, G.e Hofmann

### Note

*Eunotia australofrigida*, a new name for *Eunotia frigida* (Bacillariophyta) B. Van de Vijver, M. de Haan, H. Lange-Bertalot

**Журнал надходить до Інституту ботаніки ім. М. Г. Холодного міста Києва.**

**15. Kew Bulletin. – London. – ISSN 0075 -5974**

**Volume 69, Issue 3, September 2014**

Статті, опубліковані в номері:

Three new genera of arecoid palm (Arecaceae) from eastern Malesia *Charlie D. Heatubun, Scott Zona, William J. Baker*

*Daemonorops sedisspirituum*, a new species of *Daemonorops* Blume (Arecaceae: Calamoideae) from Java *Himmah Rustiami, John Dransfield, Edwino S. Fernando*

Lexicon of infrageneric names in *Rubus* (Rosaceae: Rubeae) *James L. Reveal*

A synopsis of the African genus *Lipotriche* (Compositae: Heliantheae: Ecliptinae) *D. J. Nicholas Hind*

*Neocuatrecasia epapposa* (Compositae: Eupatorieae: Gyptidinae), a new species from a shield inselberg in the Departamento de Santa Cruz, Eastern Bolivia *D. J. Nicholas Hind*

*Pectis harryi* (Compositae: Heliantheae: Pectidinae), a new species from a rock platform in the Departamento de Santa Cruz, Eastern Bolivia *D.J. Nicholas Hind, Sue Frisby*

Two new species of *Pleroma* (Melastomataceae: Melastomeae) from Brazil *F. S. Meyer, R. Goldenberg*

*Cantinoa nanuzae*, a new species of Lamiaceae from the Serra do Espinhaço, Minas Gerais, Brazil *R. M. Harley*

*Solanecio kangae* (Compositae, Senecioneae), a new species from Tanzania *Quentin Luke, Henk Beentje*

Lectotypification of *Musa livingstoniana* (Musaceae) *David Goyder*

A rare enigmatic sedge rediscovered: *Principina grandis* (Cyperaceae) newly recorded from São Tomé *A. Mesterházy, J. Browning*

*Rhynchospora panduranganii* (Cyperaceae), a new sedge species from the Western Ghats of the Nilgiri Biosphere Reserve, India *A. R. Viji, T. Shaju, M. P. Geethakumary*

Book Reviews

***Журнал надходить до Інституту зоології ім. І. І. Шмальгаузена міста Києва.***

**16. Journal of Plant Physiology. Biochemistry, Physiology, Molecular Biology and Functional Biotechnology of Plants. – Berlin. – ISSN 0176 -1617  
Volume 170, Issue 18, 15 December 2013**

Статті, опубліковані в номері:

### **Biochemistry**

Detoxification of cadmium (Cd) by a novel Cd-associated and Cd-induced molecule in the stem of common reed *K. Higuchi, M. Tsuchiya, S. Nakata, A. Tanabe, S. Fukawa, M. Kanai, E. Miwa*

### **Physiology**

Methionine elicits H<sub>2</sub>O<sub>2</sub> generation and defense gene expression in grapevine and reduces *Plasmopara viticola* infection H. Boubakri, M.A. Wahab, J. Chong, C. Gertz, S. Gandoura, A. Mliki, C. Bertsch, I. Soustre-Gacougnolle

Graft union formation in artichoke grafting onto wild and cultivated cardoon: An anatomical study A. Trinchera, G. Pandozy, S. Rinaldi, P. Crinò, O. Temperini, E. Rea

Assimilate translocation and expression of sucrose transporter, OsSUT1, contribute to high-performance ripening under heat stress in the heat-tolerant rice cultivar Genkitsukushi M. Miyazaki, M. Araki, K. Okamura, Y. Ishibashi, T. Yuasa, M. Iwaya-Inoue

Short term signaling responses in roots of young soybean seedlings exposed to cadmium stress J. Chmielowska-Bąk, I. Lefèvre, S. Lutts, J. Deckert

A novel substance with allelopathic activity in *Ginkgo biloba* H. Kato-Noguchi, S. Takeshita, F. Kimura, O. Ohno, K. Suenaga

Significant relationships among frost tolerance and net photosynthetic rate, water use efficiency and dehydrin accumulation in cold-treated winter oilseed rapeseeds M. O. Urban, M. Klíma, P. Vítámvás, J. Vašek, A.A. Hilgert-Delgado, V. Kučera

### **Molecular Biology**

Identification of duplicated and stress-inducible *Aox2b* gene co-expressed with *Aox1* in species of the *Medicago* genus reveals a regulation linked to gene rearrangement in leguminous genomes J.H.F. Cavalcanti, G.M. Oliveira, K. D. da Cruz Saraiva, J.P.P. Torquato, I.G. Maia, D. Fernandes de Melo, J.H. Costa

Lipid metabolism is differentially modulated by salicylic acid and heptanoyl salicylic acid during the induction of resistance in wheat against powdery mildew C. Tayeh, B. Randoux, N. Bourdon, P. Reignault

### **Short Communications**

Differential stress-response expression of two flavonol synthase genes and accumulation of flavonols in tartary buckwheat X. Li, Y.B. Kim, Y. Kim, S. Zhao, H.H. Kim, E. Chung, J.-H. Lee, S.U. Park

### **Book Reviews**

Book review on: The Evolution of Plant Form, B.A. Ambrose, M. Purugganan (Eds.). Wiley-Blackwell, Oxford (2013), ISBN: 978-1-4443-3001-4 C. Schulz

*Журнал надходить до Інституту фізіології рослин і генетики міста Києва.*

**17. Journal of Plant Physiology. Biochemistry, Physiology, Molecular Biology and Functional Biotechnology of Plants. – Berlin. – ISSN 0176 -1617  
Volume 171, Issue 1, 1 January 2014**

Статті, опубліковані в номері:



### **Special issue: Salt stress resistance**

Salt stress resistance – Multisite regulation in focus *Ch. Wilhelm*

Comparative transcriptome profiles of the *WRKY* gene family under control, hormone-treated, and drought conditions in near-isogenic rice lines reveal differential, tissue specific gene activation *M. Nuruzzaman, A.M. Sharoni, K. Satoh, A. Kumar, H. Leung, S. Kikuchi*

Germination of salt-stressed seeds as related to the ethylene biosynthesis ability in three *Stylosanthes* species *P.O. Silva, E.F. Medina, R.S. Barros, D.M. Ribeiro*

Dissipation of excess photosynthetic energy contributes to salinity tolerance: A comparative study of salt-tolerant *Ricinus communis* and salt-sensitive *Jatropha curcas* *M.C. Lima Neto, A.K.M. Lobo, M.O. Martins, A.V. Fontenele, J.A.G. Silveira*

Physiology and proteome responses of two contrasting rice mutants and their wild type parent under salt stress conditions at the vegetative stage *A. Ghaffari, J. Gharechahi, B. Nakhoda, G.H. Salekdeh*

Expression profiling of two stress-inducible genes encoding for miraculin-like proteins in citrus plants under insect infestation or salinity stress *A. Podda, M. Simili, R. Del Carratore, W. Mouhaya, R. Morillon, B.E. Maserti*

Osmotic stress alters the balance between organic and inorganic solutes in flax (*Linum usitatissimum*) *A. Quéro, R. Molinié, R. Elboutachfai, E. Petit, C. Pau-Roblot, X. Guillot, F. Mesnard, J. Courtois*

Strategies of ROS regulation and antioxidant defense during transition from C<sub>3</sub> to C<sub>4</sub> photosynthesis in the genus *Flaveria* under PEG-induced osmotic stress *B. Uzilday, I. Turkan, R. Ozgur, A.H. Sekmen*

Alleviation of salt stress in citrus seedlings inoculated with arbuscular mycorrhizal fungi depends on the rootstock salt tolerance *J.M. Navarro, O. Pérez-Tornero, A. Morte*

*Журнал надходить до Інституту фізіології рослин і генетики міста Києва.*

**18. Journal of Plant Physiology. Biochemistry, Physiology, Molecular Biology and Functional Biotechnology of Plants. – Berlin. – ISSN 0176 -1617  
Volume 171, Issue 10, 15 June 2014**

Статті, опубліковані в номері:

#### **Physiology**

Enhanced salt-induced antioxidative responses involve a contribution of polyamine biosynthesis in grapevine plants *F.E. Ikbal, J.A. Hernández, G. Barba-Espín, T. Koussa, A. Aziz, M. Faize, P. Diaz-Vivancos*

Salt tolerance and activity of antioxidative enzymes of transgenic finger millet overexpressing a vacuolar H<sup>+</sup>-pyrophosphatase gene (*SbVPPase*) from *Sorghum bicolor* E. Anjaneyulu, P.S. Reddy, M.S. Sunita, P.B. K. Kishor, B. Meriga

Electrophysiological assessment of water stress in fruit-bearing woody plants L. Ríos-Rojas, F. Tapia, L.A. Gurovich

Some synthetic cyclitol derivatives alleviate the effect of water deficit in cultivated and wild-type chickpea species S. Çevik, A. Yıldızlı, G. Yandım, H. Göksu, M.S. Gultekin, A. Güzel Değer, A. Çelik, N. Şimşek Kuş, S. Ünyayar

Abscisic acid metabolism and anthocyanin synthesis in grape skin are affected by light emitting diode (LED) irradiation at night S. Kondo, H. Tomiyama, A. Rodyoung, K. Okawa, H. Ohara, S. Sugaya, N. Terahara, N. Hirai

Rootstock alleviates PEG-induced water stress in grafted pepper seedlings: Physiological responses C. Penella, S.G. Nebauer, A.S. Bautista, S. López-Galarza, Á. Calatayud

Determination of abscisic acid and its glucosyl ester in embryogenic callus cultures of *Vitis vinifera* in relation to the maturation of somatic embryos using a new liquid chromatography-ELISA analysis method M.J. Prado, A. Largo, C. Domínguez, M. V. González, M. Rey, M.L. Centeno

### **Molecular Biology**

Identification of quantitative trait loci for abscisic acid responsiveness in the D-genome of hexaploid wheat J.C.M. Iehisa, T. Matsuura, I.C. Mori, H. Yokota, F. Kobayashi, S. Takumi

### **Short Communications**

Cucumber Pti1-L is a cytoplasmic protein kinase involved in defense responses and salt tolerance S.-K. Oh, H.A. Jang, S.S. Lee, H.S. Cho, D.-H. Lee, D. Choi, S.-Y. Kwon

The *Arabidopsis thaliana* At4g13040 gene, a unique member of the AP2/EREBP family, is a positive regulator for salicylic acid accumulation and basal defense against bacterial pathogens M.K. Giri, S. Swain, J.K. Gautam, S. Singh, N. Singh, L. Bhattacharjee, A. K. Nandi

Exogenous sodium sulfide improves morphological and physiological responses of a hybrid *Populus* species to nitrogen dioxide Y. Hu, N. Bellaloui, G. Sun, M. Tigabu, J. Wang

**Журнал надходить до Інституту фізіології рослин і генетики міста Києва.**

**19. Annals of the Missouri Botanical Garden. – St. Louis. – ISSN 0026 - 6493**

**Volume 99, Issue 4, October 2014**

A Taxonomic Revision of *Dombeya* Sect. *Decastemon* (Malvaceae) Wendy L. Applequist

New Subfamily Classification for the Rutaceae *Cynthia M. Morton and Cheryl Telmer*

Field Guide to the Cultivated Eucalypts (Myrtaceae) and How to Identify Them *Matt Ritter*

Updated Taxonomy of *Gaertnera* (Rubiaceae, Gaertnereae) in Madagascar, with Sixteen New Species *Charlotte M. Taylor, Simon Malcomber, and George E. Schatz*

**Журнал надходить до Інституту ботаніки ім. М. Г. Холодного міста Києва.**

**20. Mycological Progress. International Journal of the German Mycological Society. – Heidelberg. – ISSN 1617 -416X  
Volume 13, Issue 4, November 2014**

Статті, опубліковані в номері:

**Publisher's Note**

Mycological progress converts to continuous article publishing model and monthly publishing frequency

**Original Article**

A new holomorphic species of *Mariannaea* and epitypification of *M. samuelsii* *Z.-Q. Zeng, W.-Y. Zhuang*

A new species of *Backusella* (Mucorales) from a Cerrado reserve in Southeast Brazil *J.I. de Souza, A.V. Marano, C.L.A. Pires-Zoottarelli, F.S. Chambergo, R. Harakava*

Ultrastructure of the ascus apical apparatus of *Encoelia furfuracea* (Helotiales) *K. Pärtel*

Taxonomic study of Asian species of poroid Auriculariales *K. Sotome, N. Maekawa, A. Nakagiri, S. S. Lee, T. Hattori*

*Septoglomus jasnowskae* and *Septoglomus turnauae*, two new species of arbuscular mycorrhizal fungi (Glomeromycota) *J. Błaszowski, G. Chwat, A. Góralaska, P. Ryszka, M. Orfanoudakis*

Molecular cloning of  $\alpha$ -amanitin and characterization of its expression pattern in different parts and development stages of *Amanita exitialis* fruitbody *P. Li, W.-q. Deng, T.-h. Li*

The rusts on Goodeniaceae and Stylidiaceae *A.R. McTaggart, A.D.W. Geering, R.G. Shivas*

A reappraisal of orders and families within the subclass Chaetothyriomycetidae (Eurotiomycetes, Ascomycota) *C. Gueidan, A. Aptroot, M. E. da Silva Cáceres, H. Badali, S. Stenroos*

*Alternaria capsicicola* sp. nov., a new species causing leaf spot of pepper (*Capsicum annuum*) in Malaysia *A. Nasehi, J.B. Kadir, F. Abed Ashtiani, M.*

Nasr-Esfahani, M.Y. Wong, S.K. Rambe, H. Ghadirian, F. Mahmudi, E. Golkhandan

Several fungi from fire-prone forests of southern India can utilize furaldehydes M.B.G. Rajulu, L.B. Lai, T.S. Murali, V. Gopalan, T.S. Suryanarayanan

Five new species of the highly diverse genus *Plagiostoma* (Gnomoniaceae, Diaporthales) from Japan D.M. Walker, B.R. Lawrence, J.A. Wooten, A.Y. Rossman, L.A. Castlebury

New *Cercospora* species on *Jatropha curcas* in central Brazil A.C. Dianese, H.M.M. Vale, É.S.C. Souza, R.C. Pereira-Carvalho, Z.M. Chaves, P.E.A.S. Camara, J.C. Dianese

*Fomitiporia baccharidis* comb. nov., a little known species from high elevation Andean forests and its affinities within the neotropical *Fomitiporia* lineages M. Amalfi, G. Robledo, C. Decock

*Polycephalomyces lianzhouensis* sp. nov., a new species, co-occurs with *Ophiocordyceps crinalis* L. Wang, H.-H. Li, Y.-Q. Chen, W.-M. Zhang, L.-H. Qu

Morphology and phylogenetics of *Stomatisora*, including *Stomatisora psychotriicola* sp. nov. A.R. Wood, M. Lutz, R. Bauer, F. Oberwinkler

Three new *Laccaria* species from Southwest China (Yunnan) F. Popa, K.-H. Rexer, K. Donges, Z.L. Yang, G. Kost

A new *Alternaria* species from grapevine in China W.-C. Tao, W. Zhang, J.-Y. Yan, K.D. Hyde, E.H.C. McKenzie, X.-H. L, Y. Wangi

Molecular phylogeny of *Caloboletus* (Boletaceae) and a new species in East Asia K. Zhao, G. Wu, B. Feng, Z.L. Yang

A molecular phylogeny of *Basidiophora* reveals several apparently host-specific lineages on Astereae A. Sökücü, M. Thines

Phylogenetic relationships among *Phytopythium* species, and re-evaluation of *Phytopythium fagopyri* comb. nov., recovered from damped-off buckwheat seedlings in Japan M.A. Baten, T. Asano, K. Motohashi, Y. Ishiguro, M.Z. Rahman, S. Inaba, H. Suga, K. Kageyama

Two new truffles species, *Tuber alboumbilicum* and *Tuber pseudobrumale* from China S.-H. Li, L.-Y. Zheng, C.-Y. Liu, Y. Wang, L. Li, Y.-C. Zhao, X.-L. Zhang, M. Yang, H.-K. Xiong, Y. Qing, L. Wang, D.-Q. Zhou

*Scutellospora savannicola*: redescription, epitypification, DNA barcoding and transfer to *Dentiscutata* C. Krüger, C. Walker, A. Schüßler

Genetic variability among populations of *Fusicladium* species from different host trees and geographic locations in the USA C. Chen, C.H. Bock, P.M. Brannen, J.E. Adaskaveg, M.W. Hotchkiss, M.T. Brewer, B.W. Wood

*Amanita heishidingensis*, a new species of *Amanita* sect. *Lepidella* from China F. Li, Q. Cai

Differential regulation of multi-copper oxidases in *Schizophyllum commune* during sexual development S. Madhavan, K. Krause, E.-M. Jung, E. Kothe

A new genus *Pseudoaustroboletus* (Boletaceae, Boletales) from Asia as inferred from molecular and morphological data Y.-C. Li, F. Li, N.-K. Zeng, Y. Y. Cui, Z.L. Yang

Expanding evolutionary diversity in the Ustilaginomycotina: Fereydouniaceae fam. nov. and *Fereydounia* gen. nov., the first urocystidalean yeast lineage S. Nasr, M.R. Soudi, S.A. Shazadeh Fazeli, H.D.T. Nguyen, M. Lutz, M. Piatek

Morphological and molecular study of *Peziza emileia* and *P. howsei*, two distinct taxa G. Medardi, K.F. LoBuglio, D.H. Pfister, A. Lantieri

### Short Communication

Proof of ectomycorrhizal status of *Sistotrema confluens* Pers., the type species of the polyphyletic genus *Sistotrema* B. Bubner, C. Morgner, W. Stark, B. Münzenberger

Control of pathogenic PAC strains by non-pathogenic PAC strains *in planta* does not correlate with higher competitiveness of non-pathogenic PAC strains *ex planta* I. Hugentobler, V. Reiningger, T.N. Sieber

Geographic distribution and sequence diversity of the mycovirus *Botrytis virus F* K. Arthur, M. Pearson

siMBa—a simple graphical user interface for the Bayesian phylogenetic inference program MrBayes B. Mishra, M. Thines

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**21. European Journal of Entomology. – Ceske Budejovice. – ISSN 1210 -5759**

**Volume 111, Issue 4, 2014**

Статті, опубліковані в номері:

### Articles

Sex ratio distortion in the *Nesolynx thymus* (Hymenoptera: Eulophidae), an ecto-pupal parasitoid of uzifly, *Exorista sorbillans* (Diptera: Tachinidae) B.M. PRAKASH, A. PRATHIMA, H.C. HUCHESH, H. RAVIKUMAR, S. SAMPATHKUMAR, H.P. PUTTARAJU

Identifications of *cytochrome c* and *Apaf-1* and their mRNA expressions under heat stress in insecticide-susceptible and -resistant *Plutella xylostella* (Lepidoptera: Plutellidae) L.J. ZHANG, J.F. HUANG, F. CHEN, Z.Y. YU, Z. L. WU, G. WU

Chromosomal characteristics and evolutionary relationships of the Palearctic black fly *Simulium carthusiense* (Diptera: Simuliidae) P. H. ADLER, G. SEITZ

Cryptic diversity and signs of mitochondrial introgression in the *Agrius viridis* species complex (Coleoptera: Buprestidae) M. PENTINSAARI, M. MUTANEN, L. KAILA

Effects of cold acclimation, cooling rate and heat stress on cold tolerance of the potato tuber moth *Phthorimaea operculella* (Lepidoptera: Gelechiidae) C. HEMMATI, S. MOHARRAMIPOUR, A. A. TALEBI

Comparison of the developmental time of *Bracon hebetor* (Hymenoptera: Braconidae) reared on five different lepidopteran host species and its relationship with digestive enzymes D. SAADAT, A. R. BANDANI, M. DASTRANJ

Growth and development in a lepidopteran with variable instar number, *Pseudocoremia suavis* (Geometridae), under standard rearing conditions and when parasitised by *Meteorus pulchricornis* (Hymenoptera: Braconidae) E.I. BARRACLOUGH, E.P.J. BURGESS, A.M. KEAN, L.A. MALONE

Female fertility in *Hippodamia convergens* (Coleoptera: Coccinellidae) is maximized by polyandry, but reduced by continued male presence M. H. BAYOUMY, J.P. MICHAUD

Development and thermal requirements of the Nearctic predator *Geocoris punctipes* (Hemiptera: Geocoridae) reared at constant and alternating temperatures and fed on *Anagasta kuehniella* (Lepidoptera: Pyralidae) eggs A. M. CALIXTO, V.H.P. BUENO, F.C. MONTES, J.C. VAN LENTEREN

Rarity of blister beetles (Coleoptera: Meloidae) in Southern Africa correlates with their phylogeny and trophic habits, but not body size M.PITZALIS, V. AMORE, F. MONTALTO, L. LUISELLI, M. A. BOLOGNA

Application of the mean individual biomass of ground beetles (Coleoptera: Carabidae) to assess the assemblage successions along areas of recent glacier retreats M. GOBBI

Generalist-specialist continuum and life history traits of Central European butterflies (Lepidoptera) - are we missing a part of the picture? A. BARTONOVA, J. BENES, M. KONVICKA

Species composition and dynamics in abundance of migrant and sedentary butterflies (Lepidoptera) at Gibraltar during the spring period K. J. BENSUSAN, R. NESBIT, C. E. PEREZ, P. TRYJANOWSKI, P. ZDUNIAK

Fungi associated with the red-haired bark beetle, *Hylurgus ligniperda* (Coleoptera: Curculionidae) in the forest-steppe zone in eastern Ukraine K. DAVYDENKO, R. VASAITIS, V. MESHKOVA, A. MENKIS

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More evidence for an admixture of the *Hyles euphorbiae* complex's main lineages in Mediterranean Europe (Lepidoptera: Sphingidae) M. B. MENDE, A. K. HUNDSDOERFER

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Discovery of the first European parasitoid of the emerald ash borer *Agrilus planipennis* (Coleoptera: Buprestidae) M.J. ORLOVA-BIENKOWSKAJA, S. A. BELOKOBYSKIJ

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**22. Systematic Entomology. – Oxford. – ISSN 0307 -6970  
Volume 39, Issue 4, October 2014**

Статті, опубліковані в номері:

### **Original Articles**

Neither silverfish nor fowl: the enigmatic *Carboniferous Carbotriplura* kukalovae Kluge, 1996 (Insecta: Carbotriplurida) is the putative fossil sister group of winged insects (Insecta: Pterygota) *ARNOLD H. STANICZEK, PAVEL SROKA and GÜNTER BECHLY*

Systematics and evolution of gall formation in the plant-associated genera of the wasp subfamily Doryctinae (Hymenoptera: Braconidae) *ALEJANDRO ZALDÍVAR-RIVERÓN, JUAN J. MARTÍNEZ, SERGEY A. BELOKOBYSKIJ, CARLOS PEDRAZA-LARA, SCOTT R. SHAW, PAUL E. HANSON and FERNANDO VARELA-HERNÁNDEZ*

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Morphometric analysis and taxonomic revision of *Anisopteromalus* Ruschka (Hymenoptera: Chalcidoidea: Pteromalidae) – an integrative approach *HANNES BAUR, YVONNE KRANZ-BALTENSPERGER, ASTRID CRUAUD, JEAN-YVES RASPLUS, ALEXANDER V. TIMOKHOV and VLADIMIR E. GOKHMAN*

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Relationships within the *Melitaea phoebe* species group (Lepidoptera: Nymphalidae): new insights from molecular and morphometric information *JÁNOS P. TÓTH, JUDIT BERECZKI, ZOLTÁN VARGA, JADRANKA ROTA, GÁBOR SRAMKÓ and NIKLAS WAHLBERG*

Molecular phylogeny of Nitidulidae: assessment of subfamilial and tribal classification and formalization of the family Cybocephalidae (Coleoptera: Cucujoidea) *ANDREW R. CLINE, TREVOR R. SMITH, KELLY MILLER, MATTHEW MOULTON, MICHAEL WHITING and PAOLO AUDISIO*

New fossil Progonocimicidae (Hemiptera: Coleorrhyncha: Progonocimicoidea) from the Upper Mesozoic of northeastern China, with a phylogeny of Coleorrhyncha *QIUPING DONG, YUNZHI YAO and DONG REN*

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**Book Review**

Book Review *EUGENIO H. NEARNS and GÉRARD L. TAVAKILIAN*

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**23. Engineering Mechanics EM. – Prague. – ISSN 1802 -1484  
Vol. 20, No. 6, 2013**

Статті, опубліковані в номері:

Numerical Simulations of Electromagnet Exposed to Vibration *Darula R., Stein G.J., Sorokin S.*

Dynamic Response of Soil-Structure Interaction System in Time Domain Using Elastodynamic Infinite Elements with Scaling Modified Bessel Shape Functions *Kazakov K.*

PIV Investigation of a Pressure-Swirl Atomizer Spray *Ďurdina L., Jedelský J., Jícha M.*

Pásek M., Šimurda J.: A Mathematical Model of Rat Ventricular Cardiomyocyte with a Novel Description of Intracellular and T-Tubular Ca<sup>2+</sup> Dynamics *Pásek M., Šimurda J.*

Effect of Ion Concentration Changes in T-Tubules on Intracellular Signals Controlling Mechanical Activity in a Model of Human Ventricular Cardiomyocyte *Hrabcová D., Pásek M., Šimurda J., Christé G.*

Input Shaping Control of Electronic Cams *Beneš P., Valášek M., Marek O.*

*Журнал надходить до Інституту механіки ім. С.П. Тимошенка міста Києва.*

**24. ISIJ International. – Tokyo. – ISSN 0915 -1559  
Volume 54, Number 8, 2014**

Статті, опубліковані в номері:

**Fundamentals of High Temperature Processes**



Novel Process of Ferronickel Nugget Production from Nickel Laterite by Semi-molten State Reduction *Mei Liu, Xuwei Lv, Enguang Guo, Pan Chen, Qiugang Yuan*

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A Novel Structure of Blackbody Cavity Sensor for Continuous Measurement of Molten Steel Temperature *Zhi Xie, Jiu Zhang, Guohui Mei, Shumao Zhao, Bin Liang, Yuexin Lin*

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Effect of Surface Mechanical Attrition Treatment on Microstructure and Oxidation Behavior in T91 Steel at High Temperature *Zhi-xin Xia, Chi Zhang, Wen-bo Liu, Zhi-gang Yang*

Effects of Microalloying on Stretch-flangeability of Ultrahigh-strength TRIP-aided Martensitic Steel Sheets *Duc Van Pham, Junya Kobayashi, Koh-ichi Sugimoto*

Austenite Stability and Its Effect on the Ductility of the Cold-rolled Medium-Mn Steel *Jun Hu, Wenquan Cao, Cunyu Wang, Han Dong, Jian Li*

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*Журнал надходить до Фізико-технологічного інституту проблем металів та сплавів міста Києва.*

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Статті, опубліковані в номері:

**SPECIAL ISSUE ON RECENT PROGRESS OF SCIENCE & TECHNOLOGIES IN THERMOPHYSICAL PROPERTIES OF MOLTEN SLAG AND METALS AT HIGH TEMPERATURES**

Preface to the Special Issue on “Recent Progress of Science & Technologies in Thermophysical Properties of Molten Slag and Metals at High Temperatures”

*Joonho Lee, Hiroyuki Fukuyama*

The Importance of Materials Properties in High-temperature Processes

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Thermal Conductivity of Molten Slags: A Review of Measurement Techniques and Discussion Based on Microstructural Analysis *Youngjo Kang, Joonho Lee, Kazuki Morita*

Density of the Blast Furnace Slag Bearing  $\text{TiO}_2$  at 1673 K *Yanhui Liu, Xuewei Lv, Chenguang Bai, Xi Zhang*

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*Harada, Kakeru Kusada, Sohei Sukenaga, Hideaki Yamamura, Yoshiyuki Ueshima, Toshiaki Mizoguchi, Noritaka Saito, Kunihiko Nakashima*

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Influence of Oxygen Partial Pressure on Surface Tension of Molten Type 304 and 316 Stainless Steels Measured by Oscillating Droplet Method Using Electromagnetic Levitation *Shumpei Ozawa, Keisuke Morohoshi, Taketoshi Hibiya*

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Surface Tension of Liquid Ag-Cu Binary Alloys *Jürgen Brillo, Giorgio Lauletta, Luca Vaianella, Elisabetta Arato, Donatella Giuranno, Rada Novakovic, Enrica Ricci*

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Development of High Concentration References for Measuring Hydrogen Ingress into Steels *Ki-Bok Kim, Yun-Hee Lee, Yongil Kim, Unbong Baek, Hae Moo Lee*

**Журнал надходить до Національного наукового центру "Харківський фізико-технічний інститут" міста Харкова.**

Статті, опубліковані в номері:

**Review**

Postpartum thyroiditis *Antoaneta B. Argatska, Boyan I. Nonchev*

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Oocyte and embryo vitrification in the ivf laboratory: a comprehensive review *Maria Simopoulou, Byron Asimakopoulos, Panagiotis Bakas, Nikolay Boyadjiev, Despoina Tzanakaki, George Creatsas*

**Original Articles**

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Correlations between human somatotype components and some anthropometric parameters in male patients with type 2 diabetes mellitus *Atanas G. Baltadjiev, Stefka V. Vladeva*

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Association of eosinophilic fasciitis with morphea *Lilia G. Zisova, Cvetana I. Abadjieva, Elena V. Obreshkova, Georgi K. Tchernev, Nina I. Vutova*

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**27. Interconomics. – Humburg. – ISSN 0020 -5917**  
**Volume 49, Number 5, September/October 2014**

Статті, опубліковані в номері:

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The impact of global factors on stock market movements in emerging market economies *Axel Jochem, Stefan Reitz*

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*Журнал надходить до Інституту світової економіки і міжнародних відносин міста Києва.*

**28. American Journal of Sociology. – Chicago. – ISSN 0002 -9602**  
**Volume 119, Number 6, May 2014**

Статті, опубліковані в номері:

Classification and Coercion: The Destruction of Piracy in the English Maritime System *Matthew Norton*

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Celebrating Debutantes and Quinceañeras: Coming of Age in American Ethnic Communities by Evelyn Ibatan Rodriguez *Yen Le Espiritu*

The Marrying Kind? Debating Same-sex Marriage within the Lesbian and Gay Movement edited by Mary Bernstein and Verta Taylor *Ken Plummer*

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Superdads: How Fathers Balance Work and Family in the 21st Century by Gayle Kaufman *William Marsiglio*

Gay Dads: Transitions to Adoptive Fatherhood by Abbie E. Goldberg *Brian Heaphy*

The Gender Trap: Parents and the Pitfalls of Raising Boys and Girls by Emily W. Kane *Allison J. Pugh*

Into the Fire: Disaster and the Remaking of Gender by Shelley Pacholok *Sarah Thébaud*

Knowledge in the Time of Cholera: The Struggle over American Medicine in the Nineteenth Century by Owen Whooley *Laura Stark*

Governing How We Care: Contesting Community and Defining Difference in U.S. Public Health Programs by Susan J. Shaw *Anne Figert*

Doing Good: Racial Tensions and Workplace Inequalities at a Community Clinic in El Nuevo South by Natalia Deeb-Sossa *Zaire Dinzey*

The Informal and Underground Economy of the South Texas Border by Chad Richardson and Michael J. Pisani *Jon Shefner*

The Land of Too Much: American Abundance and the Paradox of Poverty by Monica Prasad *Fred Block*

Purging the Poorest: Public Housing and the Design Politics of Twice-Cleared Communities by Lawrence J. Vale *Robert J. Chaskin*

Venice: A Contested Bohemia in Los Angeles by Andrew Deener *Jason Patch*

Blacks and Whites in Christian America: How Racial Discrimination Shapes Religious Convictions by Jason E. Shelton and Michael O. Emerson *Eric Tranby*

The Global Pigeon by Colin Jerolmack *Japonica Brown-Saracino*

One Out of Three: Immigrant New York in the Twenty-first Century edited by Nancy Foner *Carl L. Bankston III*

Citizenship and Governance in a Changing City: Somerville, MA by Susan A. Ostrander *Bryan S. Turner*

The State of Freedom: A Social History of the British State since 1800 by Patrick Joyce *Review by: Richard Lachmann*

Integrating Varieties of Capitalism and Welfare State Research: A Unified Typology of Capitalisms by Martin Schröder *Kaj Thomsson*

Constructing Capitalisms: Transforming Business Systems in Central and Eastern Europe by Roderick Martin *Richard Whitley*

The Fracturing of the American Corporate Elite by Mark S. Mizruchi *Joseph Galaskiewicz*

Good Green Jobs in a Global Economy: Making and Keeping New Industries in the United States by David J. Hess *Magnus Boström*

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Shaping Jazz: Cities, Labels, and the Global Emergence of an Art Form by Damon J. Phillips *Gabriel Rossman*

Justifiable Conduct: Self-Vindication in Memoir by Erich Goode *Colin Sumner*

Women in Class Society by Heleith I. B. Saffioti *Barbara Celarent*

***Журнал надходить до Інституту соціології міста Києва.***

*За довідками звертатись до чергового бібліотекаря Залу періодики за тел. 524-44-19*