

Institute of Systems Biology and Ecology of the ASCR, v. v. i.

RIV - actual data collecting

Document types: Impacted Journal Article, Journal Article, Monograph, Monograph Chapter, Proceedings Paper (International conf.), Proceedings Paper (Czech conf.)

Year(s): 2015

Database: ASEP

0427138 - UEK-B 2015 RIV CZ eng B - Monograph kniha jako celek

Brázdil, Rudolf - Kotyza, O. - Dobrovolný, Petr - Řezníčková, Ladislava - Valášek, H.

Climate of the Sixteenth Century in the Czech Lands.

Brno : Masaryk university, 2013. 286 s. - (History of Weather and Climate in the Czech Lands, 10). ISBN 978-80-2-0-6565-9

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073

Institutional Support: RVO:67179843

Keywords: Czech Lands * documentary data * hydrometeorological extremes * precipitation fluctuation * temperature fluctuation

Subject RIV: DG - Atmosphere Science, Meteorology

Permanent link: <http://hdl.handle.net/11104/0232757>

0428535 - UEK-B 2015 RIV CZ cze C - Proceedings Paper (International conf.)

Veselík, P. - Dvorská, Alice - Michálek, J.

Statistické vyhodnocení paralelního měření atmosférické rtuti dvěma identickými přístroji.

[Statistical Evaluation of Atmospheric Mercury Measurements Conducted in Parallel with Two Identical Instruments.]

XXXII mezinárodní kolokvium o řízení vzdělávacího procesu: sborník abstraktů a elektronických verzí recenzovaných příspěvků na CD-ROM. Brno : Univerzita Obrany, 2014 - (Hájková, E.; Vémolová, R.), s. 1-10 ISBN 978-80-7231-958-9.

[International Colloquium on the management of educational process /XXXII./. Brno (CZ), 22.05.2014-]

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073

Institutional Support: RVO:67179843

Keywords: total gaseous mercury * air pollution * Wilcoxon matched pairs test * nonparametric methods

Subject RIV: EH - Ecology, Behaviour

Permanent link: <http://hdl.handle.net/11104/0233876>

0395735 - UEK-B 2015 RIV DE eng J - Journal Article

Bartošová, Lenka - Trnka, Miroslav - Bauer, Z. - Možný, Martin - Štěpánek, Petr - Žalud, Z.

Phenological differences among selected residents and long-distance migrant bird species in central Europe.

International Journal of Biometeorology. -, - (2013). ISSN 0020-7128

R&D Projects: GA MŠk(CZ) EE2.3.20.0248; GA MŠk(CZ) EE2.4.31.0056

Institutional Support: RVO:67179843

Keywords: phenology * resident * long-distance migrant * breeding * central Europe

Subject RIV: EH - Ecology, Behaviour

Impact factor: 2.104, year: 2013

Permanent link: <http://hdl.handle.net/11104/0223684>

• [DOI](#)

0427048 - UEK-B 2015 RIV GB eng J - Journal Article

Bhattarai, Bishnu Prasad - Kindlmann, Pavel

Effect of human disturbance on the prey of tiger in the Chitwan National Park - Implications for park management.

Journal of Environmental Management. Roč. 131, DEC 15 2013 (2013), s. 343-350. ISSN 0301-4797

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA MŠk LC06073

Institutional Support: RVO:67179843

Keywords: human disturbance * ungulates * conservation * habitats * predators

Subject RIV: EH - Ecology, Behaviour

Impact factor: 3.188, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232687>

- [WOS](#)

- [DOI](#)

0424954 - UEK-B 2015 RIV US eng J - Journal Article

Bílá, Karolína - Morreti, M. - de Bello, Francesco - Dias, A. T. C. - Pezzatti, G. B. - van Oosten, A. R. - Berg, M. P.

Disentangling community functional components in a litter-macrodetrivore model system reveals the predominance of the mass ratio hypothesis.

Ecology and Evolution. Roč. 4, č. 4 (2014), s. 408-416. ISSN 2045-7758

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA ČR GAP505/12/1296

Institutional Support: RVO:67179843 ; RVO:67985939

Keywords: Community-weighted mean trait value * functional diversity * functional metrics * Isopoda * litter decomposition * macrodetrivores * trait dissimilarity

Subject RIV: EH - Ecology, Behaviour; EF - Botany

Impact factor: 1.658, year: 2013

Permanent link: <http://hdl.handle.net/11104/0230947>

- [WOS](#)

- [DOI](#)

0420933 - UEK-B 2015 RIV US eng J - Journal Article

Bondar, Alexey - Lazar, Josef

Dissociated GaGTP and Gβγ Subunits are the Major Activated Form of Heterotrimeric Gi/o Proteins.

Journal of Biological Chemistry. Roč. 289, č. 3 (2014), s. 1271-1281. ISSN 0021-9258

Institutional Support: RVO:67179843

Keywords: heterotrimeric G proteins * heterotrimeric G proteins * adrenergic receptor * membrane proteins * microscopic imaging * plasma membrane * potassium channels * two-photon polarization microscopy

Subject RIV: CE - Biochemistry

Impact factor: 4.600, year: 2013

Permanent link: <http://hdl.handle.net/11104/0227408>

0397214 - UEK-B 2015 RIV AT eng J - Journal Article

Brázdil, Rudolf - Řezníčková, Ladislava - Valášek, H. - Kiss, A. - Kotyza, O.

Past locust outbreaks in the Czech Lands: do they indicate particular climatic patterns?.

Theoretical and Applied Climatology. -, - (2013), s. 1-15. ISSN 0177-798X

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073

Institutional Support: RVO:67179843

Subject RIV: DG - Atmosphere Science, Meteorology

Impact factor: 1.742, year: 2013

Permanent link: <http://hdl.handle.net/11104/0224864>

- [DOI](#)

0427137 - UEK-B 2015 RIV CZ cze J - Journal Article

Brázdil, Rudolf - Řezníčková, Ladislava - Valášek, H.

Meteorologická pozorování Alexandra Zawadzského v Brně v letech 1861-1867.

[The meteorological observations made by Alexander Zawadzki in Brno, 1861- 1867.]

Geografie. Sborník české geografické společnosti. Roč. 118, č. 4 (2013), s. 334-355. ISSN 1212-0014

R&D Projects: GA ČR GA13-19831S

Institutional Support: RVO:67179843

Keywords: meteorological observation * air pressure * air temperature * precipitation * wind * atmospheric phenomena * Alexander Zawadzki * Pavel Olexík * Brno

Subject RIV: DG - Atmosphere Science, Meteorology

Impact factor: 0.400, year: 2013

<http://geography.cz/sbornik/wp-content/uploads/downloads/2013/12/g13-4-s334-355-br%C3%A1zdil.pdf>

Permanent link: <http://hdl.handle.net/11104/0232754>

0428922 - UEK-B 2015 RIV GB eng J - Journal Article

Büntgen, Ulf - Kirdyanov, A. V. - Hellmann, L. - Nikolaev, A. N. - Tegel, W.

Cruising an archive: On the palaeoclimatic value of the Lena Delta.

Holocene. Roč. 24, č. 5 (2014), s. 627-630. ISSN 0959-6836

R&D Projects: GA MŠk(CZ) EE2.3.20.0248

Keywords: arctic driftwood * dendroclimatology * eastern Siberia * high-resolution palaeoclimatology * proxy archives * subfossil wood

Subject RIV: DG - Atmosphere Science, Meteorology

Impact factor: 3.794, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234141>

0431814 - UEK-B 2015 RIV US J - Journal Article

Carriero, G. - Tuovinen, J.-P. - Clarke, N. - Matteucci, G. - Matyssek, R. - Wieser, G. - Mikkelsen, J. D. - Fischer, R. - Cudlín, Pavel - Serengil, Y. - Boscaleri, F. - Calfapietra, Carlo - Feng, Z. - Paoletti, E.

Latest Achievements on Climate Change and Forest Interactions in a Polluted Environment.

Open Journal of Forestry. Roč. 4, č. 3 (2014), s. 197-207. ISSN 2163-0429

Institutional Support: RVO:67179843

Keywords: air pollution * climate change * forests * supersites * COST * FP0903 Action

Subject RIV: EH - Ecology, Behaviour

Permanent link: <http://hdl.handle.net/11104/0236364>

- [DOI](#)
- [Inst. Repository](#)

0424882 - UEK-B 2015 RIV PL eng J - Journal Article

Datta, R. - Vranová, V. - Pavelka, Marian - Rejšek, K. - Formanek, P.

Effect of soil sieving on respiration induced by low-molecular-weight substrates.

International Agrophysics. Roč. 28, č. 1 (2014), s. 119-124. ISSN 0236-8722

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA MŠk(CZ) LM2010007

Institutional Support: RVO:67179843

Keywords: sieving * carbohydrates * phenolics * amino acids * microorganisms

Subject RIV: EH - Ecology, Behaviour

Impact factor: 1.142, year: 2013

Permanent link: <http://hdl.handle.net/11104/0230888>

- [WOS](#)
- [DOI](#)

0431849 - UEK-B 2015 RIV eng J - Journal Article

Djomo, S. N. - Ač, Alexander - Zenone, T. - De Groote, T. - Bergante, S. - Facciotto, G. - Sixto, H. - Ciria Ciria, P. - Weger, J. - Ceulemans, R.

Energy performances of intensive and extensive short rotation cropping systems for woody biomass production in the EU.

Renewable & Sustainable Energy Reviews. Roč. 41, - (2015), s. 845-854. ISSN 1364-0321

R&D Projects: GA MŠk EE2.3.30.0056

Institutional Support: RVO:67179843

Keywords: poplar * willow * bioenergy crops * energy balance * energy efficiency

Subject RIV: BO - Biophysics

Impact factor: 5.510, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236386>

- [DOI](#)

0427889 - UEK-B 2015 RIV GB eng J - Journal Article

Dolák, L. - Brázdil, Rudolf - Valášek, H.

Hydrological and meteorological extremes derived from taxation records: the estates of Brtnice, Třebíč and Velké Meziříčí, 1706-1849.

Hydrological Sciences Journal. Roč. 58, č. 8 (2013), s. 1620-1634. ISSN 0262-6667

Institutional Support: RVO:67179843

Keywords: taxation system * tax remission * hydrological extremes * meteorological extreme * fluctuation * hailstrom * torrential rain * flash flood * human impact

Subject RIV: EH - Ecology, Behaviour

Impact factor: 1.252, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233327>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)

0422508 - UEK-B 2015 RIV NL eng J - Journal Article

Duží, Barbora - Vikhrov, Dmytro - Kelman, I. - Stojanov, Robert - Jakubínský, Jiří

Household flood risk reduction in the Czech Republic.

Mitigation and Adaptation Strategies for Global Change. Roč. 18, č. 8 (2013), s. 1-6. ISSN 1381-2386

R&D Projects: GA MŠk(CZ) EE2.4.31.0056; GA MŠk(CZ) LD13032; GA MŠk(CZ) LD13033

Institutional Support: RVO:67179843

Keywords: Bečva River Basin * Czech Republic * flood risk reduction * floods * household adaptation * household coping

Subject RIV: AO - Sociology, Demography

Impact factor: 2.019, year: 2013

Permanent link: <http://hdl.handle.net/11104/0228735>

- [SCOPUS](#)
- [DOI](#)

0427772 - UEK-B 2015 RIV BE eng J - Journal Article

Fischer, Milan - Orság, Matěj - Trnka, Miroslav - Pohanková, Eva - Hlavinka, Petr - Tripathi, Abishek - Žalud, Zdeněk

Annual and Intra-Annual Water Balance Components of a Short Rotation Poplar Coppice Based on Sap Flow and Micrometeorological and Hydrological Approaches.

Acta Horticulturae. Roč. 991, JUN 04-07 (2013), s. 401-408. ISSN 0567-7572

Institutional Support: RVO:67179843

Keywords: short rotation poplar coppice * water balance * sap flow * Bowen ratio and energy balance method * modeling

Subject RIV: EH - Ecology, Behaviour

Permanent link: <http://hdl.handle.net/11104/0233259>

- [WOS](#)

0428882 - UEK-B 2015 RIV eng J - Journal Article

Frelichová, Jana - Vačkář, David - Pártl, Adam - Loučková, Blanka - Lorencová, Eliška

Integrated assessment of ecosystem services in the Czech Republic.

Ecosystem services. Roč. 8, - (2014), s. 110-117. ISSN 2212-0416

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA TA ČR TD010066

Institutional Support: RVO:67179843

Keywords: ecosystems * ecosystem services * integrated assessment * database * valuation * Czech Republic

Subject RIV: EH - Ecology, Behaviour

Permanent link: <http://hdl.handle.net/11104/0234119>

0429058 - UEK-B 2015 RIV GB eng J - Journal Article

Grosskinsky, D. K. - Albacete, A. - Jammer, A. - Krbez, P. - van der Graaff, E. - Pfeifhofer, H. - Roitsch, Thomas

A Rapid Phytohormone and Phytoalexin Screening Method for Physiological Phenotyping.

Molecular Plant. Roč. 7, č. 6 (2014), s. 1053-1056. ISSN 1674-2052

Institutional Support: RVO:67179843

Subject RIV: EH - Ecology, Behaviour

Impact factor: 6.605, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234244>

- [DOI](#)

0427773 - UEK-B 2015 RIV GB eng J - Journal Article

Guidolotti, G. - Rey, A. - D'Andrea, E. - Matteucci, G. - De Angelis, Paolo

Effect of environmental variables and stand structure on ecosystem respiration components in a Mediterranean beech forest.

Tree Physiology. Roč. 33, č. 9 (2013), s. 960-972. ISSN 0829-318X

Institutional Support: RVO:67179843

Keywords: ecosystem respiration * Fagus sylvatica * leaf respiration * soil CO₂ efflux * stem CO₂ efflux * total non-structural carbohydrates

Subject RIV: EH - Ecology, Behaviour

Impact factor: 3.405, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233254>

- [WOS](#)
- [DOI](#)

0427659 - UOCHB-X 2015 RIV DE eng J - Journal Article

Habartová, Alena - Obisesan, Anthony - Minofar, Babak - Roeselová, Martina

Partial hydration of n-alkyl halides at the water-vapor interface: a molecular simulation study with atmospheric implications.

Theoretical Chemistry Accounts. Roč. 133, č. 3 (2014), 1455/1-1455/15. ISSN 1432-881X

R&D Projects: GA ČR(CZ) GAP208/10/1724; GA MŠk ME09064

Not R&D Projects: GA ČR(CZ) GA13-08651S

Institutional Support: RVO:61388963 ; RVO:67179843

Keywords: haloalkanes * adsorption * interfacial solvation * halogenated organics * interfacial partitioning * surface orientation * heterogeneous chemistry

Subject RIV: CF - Physical & Theoretical Chemistry

Impact factor: 2.143, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233186>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)

0426965 - UEK-B 2015 RIV CZ eng J - Journal Article

Hassan, D. A. - Parisey, N. - Burel, F. - Plantegenest, M. - Kindlmann, Pavel - Butet, A.

Relationship between the abundance of aphids and their natural enemies in cereal fields and landscape composition.

European Journal of Environmental Sciences. Roč. 2, č. 2 (2012), s. 89-101. ISSN 1805-0174

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073

Institutional Support: RVO:67179843

Keywords: agroecosystems * landscape structure * crop pests * aphids * biological control * semi-natural habitats

Subject RIV: EH - Ecology, Behaviour

Permanent link: <http://hdl.handle.net/11104/0232588>

0428042 - UIVT-O 2015 RIV NL eng J - Journal Article

Hofmeister, J. - Hošek, J. - Brabec, Marek - Dvořák, D. - Beran, M. - Deckerová, H. - Burel, J. - Kříž, M. - Borovička, Jan - Běťák, J. - Vašutová, Martina

Richness of ancient forest plant species indicates suitable habitats for macrofungi.

Biodiversity and Conservation. Roč. 23, č. 8 (2014), s. 2015-2031. ISSN 0960-3115

R&D Projects: GA MŽP SP/2D1/146/08

Institutional Support: RVO:67985807 ; RVO:67985831 ; RVO:67179843

Keywords: diversity * forest continuity * forest management * Herb-layer plant species * red-listed species * species richness * surrogacy

Subject RIV: BB - Applied Statistics, Operational Research; EH - Ecology, Behaviour; EH - Ecology, Behaviour

Impact factor: 2.065, year: 2013

Hofmeister, J.

Permanent link: <http://hdl.handle.net/11104/0233447>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)

0427051 - UEK-B 2015 RIV GB eng J - Journal Article

Honěk, A. - Martínková, Z. - Kindlmann, Pavel - Ameixa, Olga - Dixon, Anthony F. G.

Long-term trends in the composition of aphidophagous coccinellid communities in Central Europe.

Insect Conservation and Diversity. Roč. 7, č. 1 (2014), s. 55-63. ISSN 1752-458X

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA MŠk LC06073

Institutional Support: RVO:67179843

Keywords: abundance * coccinellid communities * diversity * land use changes

Subject RIV: EH - Ecology, Behaviour

Impact factor: 1.937, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232688>

0428976 - UEK-B 2015 RIV NL eng J - Journal Article

Hromádková, Z. - Košťálová, Z. - Vrchotová, Naděžda - Ebringerová, A.

Non-cellulosic polysaccharides from the leaves of small balsam (*Impatiens parviflora* DC.).

Carbohydrate Research. Roč. 389, - (2014), s. 147-153. ISSN 0008-6215

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA MŠk(CZ) LD11014

Institutional Support: RVO:67179843

Keywords: *impatiens parviflora* DC * leaves * pectin * Glucuronoxylan * Arabinogalactan

Subject RIV: EH - Ecology, Behaviour

Impact factor: 1.966, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234193>

- [DOI](#)

0432098 - UFA-U 2015 RIV AT eng J - Journal Article

Huth, Radan - Mikšovský, J. - Štěpánek, Petr - Belda, M. - Farda, Aleš - Chládová, Zuzana - Pišoft, P.

Comparative validation of statistical and dynamical downscaling models on a dense grid in central Europe: temperature.

Theoretical and Applied Climatology. -, - (2014). ISSN 0177-798X

R&D Projects: GA ČR(CZ) GAP209/11/2405

Institutional Support: RVO:68378289 ; RVO:67179843

Subject RIV: DG - Atmosphere Science, Meteorology

Impact factor: 1.742, year: 2013

<http://link.springer.com/article/10.1007%2Fs00704-014-1190-3>

Permanent link: <http://hdl.handle.net/11104/0236705>

- [DOI](#)

0430522 - UOCHB-X 2015 RIV DK eng J - Journal Article

Chaloupková, R. - Prudnikova, T. - Řezáčová, Pavlína - Prokop, Z. - Koudeláková, T. - Daniel, L. - Březovský, J. - Ikeda-Ohtsubo, W. - Sato, Y. - Kutý, Michal - Nagata, Y. - Kutá-Smatanová, Ivana - Damborský, J.

Structural and functional analysis of a novel haloalkane dehalogenase with two halide-binding sites.

Acta Crystallographica Section D-Biological Crystallography. Roč. 70, July (2014), s. 1884-1897. ISSN 0907-4449

Not R&D Projects: GA ČR(CZ) GAP207/12/0775; GA MŠk(CZ) LO1214; GA MŠk(CZ) LM2010005

Institutional Support: RVO:61388963 ; RVO:67179843

Keywords: haloalkane dehalogenase * halide-binding site * catalytic activity * substrate specificity * enzyme stability

Subject RIV: CE - Biochemistry

Impact factor: 7.232, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235571>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)

0428918 - UEK-B 2015 RIV GB eng J - Journal Article

Chuman, T. - Gürtlerová, P. - Hruška, Jakub - Adamová, M.

Geochemical reactivity of rocks of the Czech Republic.

Journal of Maps. Roč. 10, č. 2 (2014), s. 341-349. ISSN 1744-5647

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073

Institutional Support: RVO:67179843

Keywords: geochemical reactivity * Czech Republic * susceptibility to weathering

Subject RIV: EH - Ecology, Behaviour

Impact factor: 0.895, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234140>

- [WOS](#)
- [DOI](#)

0427053 - UEK-B 2015 RIV NL eng J - Journal Article

Kalinová, J. - Tríska, Jan - Vrchotová, Naděžda - Moos, Martin

Verification of presence of caprolactam in sprouted achenes of *Fagopyrum esculentum* Moench and its influence on plant phenolic compound content.

Food Chemistry. Roč. 157, 15 Aug (2014), s. 380-384. ISSN 0308-8146

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA MŠk(CZ) LD11016

Institutional Support: RVO:67179843

Keywords: Common buckwheat * Exudates * Seeds * Germination * Phenolic compounds inhibition * Rutin

Subject RIV: GM - Food Processing

Impact factor: 3.259, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232689>

- [DOI](#)

0430386 - UEK-B 2015 RIV GB eng J - Journal Article

Kindlmann, Pavel - Meléndez-Ackerman, E. J. - Tremblay, R. L.

Disobedient epiphytes: colonization and extinction rates in a metapopulation of *Lepanthes rupestris* (Orchidaceae) contradict theoretical predictions based on patch connectivity.

Botanical Journal of the Linnean Society. Roč. 175, č. 4 (2014), s. 598-606. ISSN 0024-4074

Institutional Support: RVO:67179843

Keywords: connectivity * metapopulation theory * orchids

Subject RIV: EF - Botany

Impact factor: 2.699, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235324>

- [DOI](#)

0430099 - UEK-B 2015 RIV SK eng J - Journal Article

Klem, Karel - Rajsnerová, Petra - Novotná, Kateřina - Míša, P. - Křen, J.

Changes in vertical distribution of spectral reflectance within Spring barley canopy as an indicator of nitrogen nutrition, canopy structure and yield parameters.

Agriculture (Poľnohospodárstvo). Roč. 60, č. 2 (2014), s. 50-59. ISSN 0551-3677

R&D Projects: GA MZe QI111A133; GA TA ČR TA02010780

Institutional Support: RVO:67179843

Keywords: *Hordeum vulgare* * spectral reflectance * vertical gradient * vegetation indices * nitrogen * grain yield * protein content

Subject RIV: GC - Agronomy

Permanent link: <http://hdl.handle.net/11104/0235094>

- [DOI](#)

0428178 - UEK-B 2015 RIV CZ eng J - Journal Article

Křen, J. - Klem, Karel - Svobodová, I. - Míša, P. - Neudert, L.

Yield and grain quality of spring barley as affected by biomass formation at early growth stages.

Plant, Soil and Environment. Roč. 60, č. 5 (2014), s. 221-227. ISSN 1214-1178

R&D Projects: GA MZe QI111A133

Keywords: *Hordeum vulgare* L * above-ground biomass * tillering * grain yield formation * grain protein content

Subject RIV: EH - Ecology, Behaviour

Impact factor: 1.113, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233604>

0426968 - UEK-B 2015 RIV GB eng J - Journal Article

Luitel, D. R. - Rokaya, Maan Bahadur - Timsina, Binu - Münzbergová, Zuzana

Medicinal plants used by the Tamang community in the Makawanpur district of central Nepal.

Journal of Ethnobiology and Ethnomedicine. Roč. 10, č. 5 (2014), s. 1-11. ISSN 1746-4269

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073

Institutional Support: RVO:67179843 ; RVO:67985939

Keywords: Makawanpur district * Medicinal plants * Pharmacology * Phytochemistry * Tamang community

Subject RIV: EH - Ecology, Behaviour; EF - Botany

Impact factor: 1.978, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232590>

0429122 - UEK-B 2015 RIV GB eng J - Journal Article

Lusini, I. - Pallozi, E. - Corona, P. - Calfapietra, Carlo

Novel application of a combustion chamber for experimental assessment of biomass burning emission.

Atmospheric Environment. Roč. 94, - (2014), s. 117-125. ISSN 1352-2310

Institutional Support: RVO:67179843

Keywords: forest fires * combustion chamber * combustion gases * volatile organic compounds emission

Subject RIV: EH - Ecology, Behaviour

Impact factor: 3.062, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234309>

- [DOI](#)

0432042 - UEK-B 2015 RIV GB eng J - Journal Article

Morani, A. - Nowak, D. - Hirabayashi, S. - Guidolotti, G. - Medori, M. - Muzzini, V. - Fares, S. - Scarascia-Mugnozza, G. - Calfapietra, Carlo

Comparing i-Tree modeled ozone deposition with field measurements in a periurban Mediterranean forest.

Environmental Pollution. Roč. 195, - (2014), s. 202-209. ISSN 0269-7491

Institutional Support: RVO:67179843

Keywords: Ball-Berry * ozone flux * mediterranean region

Subject RIV: EH - Ecology, Behaviour

Impact factor: 3.902, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236529>

- [DOI](#)

0430548 - BC-A 2015 RIV eng J - Journal Article

Mráz, Ivan - Beran, P. - Šerá, Božena - Gavril, B. - Hnatiuc, E.

Effect of low-temperature plasma treatment on the growth and reproduction rate of some plant pathogenic bacteria.

Journal of Plant Pathology. Roč. 96, č. 1 (2014), s. 63-67. ISSN 1125-4653

Institutional Support: CEZ:AV0Z50510513

Institutional Support: RVO:60077344 ; RVO:67179843

Keywords: LTAPP * bacterial growth * *Clavibacter michiganensis* subsp *michiganensis* * *Escherichia coli* * *Erwinia amylovora*

Subject RIV: EE - Microbiology, Virology; BO - Biophysics

Impact factor: 0.768, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235470>

- [WOS](#)

0427771 - UEK-B 2015 RIV BE eng J - Journal Article

Orság, Matěj - Fischer, Milan - Trnka, Miroslav - Tripathi, Abishek

Transpiration of Poplar Based Short Rotation Coppice under Drought Stress.

Acta Horticulturae. Roč. 991, JUN 04-07 (2013), s. 231-237. ISSN 0567-7572

Institutional Support: RVO:67179843

Keywords: sap flow * transpiration * transpiration * poplar * modeling

Subject RIV: EH - Ecology, Behaviour

Permanent link: <http://hdl.handle.net/11104/0233253>

- [WOS](#)

0421924 - UFA-U 2015 RIV GB eng J - Journal Article

Plavcová, Eva - Kyselý, Jan - Štěpánek, Petr

Links between circulation types and precipitation in Central Europe in the observed data and regional climate model simulations.

International Journal of Climatology. Roč. 34, č. 9 (2014), s. 2885-2898. ISSN 0899-8418

R&D Projects: GA ČR GAP209/10/2265

Not R&D Projects: FP6 ENSEMBLES(XE) 505539

Institutional Support: RVO:68378289 ; RVO:67179843

Keywords: precipitation * atmospheric circulation * regional climate models * ENSEMBLES * Central Europe

Subject RIV: DG - Atmosphere Science, Meteorology; DG - Atmosphere Science, Meteorology

Impact factor: 3.398, year: 2013

Permanent link: <http://hdl.handle.net/11104/0229340>

- [WOS](#)

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0431485 - UEK-B 2015 RIV GB eng J - Journal Article

Rivas-Ubach, A. - Gargallo-Garriga, A. - Sardans, J. - Oravec, Michal - Mateu-Castell, L. - Pérez-Trujillo, M. - Parella, T. - Ogaya, R. - Urban, Otmar - Penuelas, J.

Drought enhances folivory by shifting foliar metabolomes in *Quercus ilex* trees.

New Phytologist. Roč. 202, č. 3 (2014), s. 874-885. ISSN 1469-8137

Institutional Support: RVO:67179843

Keywords: drought * ecology * ecometabolomics * folivory * metabolomics * stoichiometry

Subject RIV: EF - Botany

Impact factor: 6.373, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236106>

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- [WOS](#)
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0431488 - UEK-B 2015 RIV DE eng J - Journal Article

Sakowska, K. - Vescovo, L. - Marcolla, B. - Juszczak, R. - Olejnik, Janusz - Giannele, D.

Monitoring of carbon dioxide fluxes in a subalpine grassland ecosystem of the Italian Alps using a multispectral sensor. *Biogeosciences*. Roč. 11, - (2014), s. 4729-4769. ISSN 1726-4170

Institutional Support: RVO:67179843

Subject RIV: EH - Ecology, Behaviour

Impact factor: 3.753, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236107>

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0430198 - UEK-B 2015 RIV GB eng J - Journal Article

Sáňka, O. - Melymuk, L. - Čupr, P. - Dvorská, Alice - Klánová, J.

Dispersion modeling of selected PAHs in urban air: A new approach combining dispersion model with GIS and passive air sampling.

Atmospheric Environment. Roč. 90, - (2014), s. 88-95. ISSN 1352-2310

Institutional Support: RVO:67179843

Keywords: passive air sampling * air dispersion modeling * GIS * polycyclic aromatic hydrocarbons * emission inventories

Subject RIV: DI - Air Pollution & Quality

Impact factor: 3.062, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235141>

- [DOI](#)

0398819 - UEK-B 2015 RIV GB eng J - Journal Article

Schutte, B.J. - Tomasek, B. J. - Davis, A. - Andersson, L. - Benoit, D.L. - Cirujeda, A. - Dekker, J. - Forcella, F. - Gonzalez-Andujar, J.L. - Graziani, F. - Murdoch, A.J. - Neve, P. - Rasmussen, I.A. - Šerá, Božena - Salonen, J. - Tei, F. - Tørresen, K.S. - Urbano, J.M.

An investigation to enhance understanding of the stimulation of weed seedling emergence by soil disturbance.

Weed Research. Roč. 54, č. 1 (2014), s. 1-12. ISSN 0043-1737

Institutional Support: RVO:67179843

Keywords: tillage * seedbank management * stale seedbed * genotype-environment interactions * seed germination * *Chenopodium album*

Subject RIV: EH - Ecology, Behaviour

Impact factor: 2.015, year: 2013

Permanent link: <http://hdl.handle.net/11104/0226224>

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- [WOS](#)
- [DOI](#)

0428773 - UEK-B 2015 RIV DE eng J - Journal Article

Skalák, Petr - Déqué, M. - Belda, M. - Farda, Aleš - Halenka, T. - Csimá, G. - Bartholy, J. - Caian, M. - Spiridonov, V.

CECILIA regional climate simulations for the present climate: validation and inter-comparison.

Climate Research. Roč. 60, - (2014), s. 1-12. ISSN 0936-577X

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA MŠk(CZ) EE2.4.31.0056

Institutional Support: RVO:67179843

Keywords: RCM * Model performance * Validation * CECILIA * ALADIN-Climate * RegCM3

Subject RIV: EH - Ecology, Behaviour

Impact factor: 2.707, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234063>

0428345 - MBU-M 2015 RIV US eng J - Journal Article

Slámová, Kristýna - Kulik, Natallia - Fiala, Martin - Krejzová, Jana - Ettrich, Rüdiger - Křen, Vladimír

Expression, characterization and homology modeling of a novel eukaryotic GH84 beta-N-acetylglucosaminidase from *Penicillium chrysogenum*.

Protein Expression and Purification. Roč. 95, MAR 2014 (2014), s. 204-210. ISSN 1046-5928

R&D Projects: GA ČR(CZ) GAP207/11/0629; GA MŠk(CZ) 7E11011

Institutional Support: RVO:61388971

Keywords: beta-N-acetylglucosaminidase * Homology modeling * O-GlcNAcase

Subject RIV: EE - Microbiology, Virology

Impact factor: 1.508, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233700>

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0431492 - UEK-B 2015 RIV GB eng J - Journal Article

Song, B. - Niu, S. - Luo, R. - Chen, J. - Yu, G. - Olejnik, Janusz - Wohlfahrt, G. - Kiely, G. - Noormels, A. - Montagnani, L. - Cescatti, A. - Magliulo, V. - Law, B. E. - Lund, M. - Varlagin, A. - Raschi, A. - Peichl, M. - Nilsson, M. - Merbold, L.

Divergent apparent temperature sensitivity of terrestrial ecosystem respiration.

Journal of Plant Ecology. -, - (2014), s. 1-10. ISSN 1752-9921

Institutional Support: RVO:67179843

Keywords: activation energy * ecosystem respiration * index of water availability * gross primary productivity

Subject RIV: EH - Ecology, Behaviour

Impact factor: 2.284, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236108>

- [DOI](#)

0422781 - UEK-B 2015 RIV GB eng J - Journal Article

Stockdale, A. - Tipping, E. - Lofts, S. - Fott, J. - Garmo, Ø. - Hruška, Jakub - Keller, B. - Löfgren, S. - Maberly, S. - Majer, V. - Nierzwicki-Bauer, S. A. - Persson, G. - Schartau, A. - Thackeray, S. J. - Valois, A. - Vrba, J. - Walseng, B. - Yan, N.

Metal and proton toxicity to lake zooplankton: A chemical speciation based modelling approach.

Environmental Pollution. Roč. 186, MAR (2014), s. 115-125. ISSN 0269-7491

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073

Institutional Support: RVO:67179843

Keywords: chemical speciation * bioavailability * recovery * crustacean zooplankton * lakes

Subject RIV: EH - Ecology, Behaviour

Impact factor: 3.902, year: 2013

Permanent link: <http://hdl.handle.net/11104/0229011>

- [WOS](#)
- [DOI](#)

0397702 - UEK-B 2015 RIV GB eng J - Journal Article

Svobodová, Eva - Trnka, Miroslav - Žalud, Zdeněk - Semerádová, D. - Dubrovský, Martin - Eitzinger, Josef - Štěpánek, Petr - Brázdil, Rudolf

Climate variability and potential distribution of selected pest species in south Moravia and north-east Austria in the past 200 years - lessons for the future.

Journal of Agricultural Science. -, - (2013), s. 1-13. ISSN 0021-8596

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA MŠk(CZ) EE2.4.31.0056

Institutional Support: RVO:67179843
Subject RIV: EH - Ecology, Behaviour
Impact factor: 2.891, year: 2013
Permanent link: <http://hdl.handle.net/11104/0225375>

0395726 - UEK-B 2015 RIV GB eng J - Journal Article

Svobodová, Eva - Trnka, Miroslav - Dubrovský, Martin - Semerádová, Daniela - Eitzinger, Josef - Štěpánek, Petr - Žalud, Z.

Determination of areas with the most significant shift in persistence of pests in Europe under climate change.

Pest Management Science. -, - (2013). ISSN 1526-498X

R&D Projects: GA MŠk(CZ) EE2.3.20.0248; GA MŠk(CZ) EE2.4.31.0056; GA MZe QJ1310123

Institutional Support: RVO:67179843

Keywords: climate matching * pests * endangered areas * northern range

Subject RIV: EH - Ecology, Behaviour

Impact factor: 2.743, year: 2013

Permanent link: <http://hdl.handle.net/11104/0223682>

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0430375 - UEK-B 2015 RIV eng J - Journal Article

Šebela, David - Olejníčková, Julie - Sotolář, R. - Vrchotová, Naděžda - Tríska, Jan

Towards optical detection of plasmopara viticola infection in the field.

Journal of Plant Pathology. Roč. 96, č. 2 (2014), s. 309-320. ISSN 1125-4653

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073

Institutional Support: RVO:67179843

Keywords: Downy mildew * grapevine * UV-induced fluorescence * chlorophyll fluorescence * reflectance * transresveratrol * 2,4,6-trihydroxyphenanthrene-2-O-glucoside

Subject RIV: EH - Ecology, Behaviour

Impact factor: 0.768, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235346>

• [DOI](#)

0430197 - UEK-B 2015 RIV PL eng J - Journal Article

Taufarová, Klára - Havráňková, Kateřina - Dvorská, Alice - Pavelka, Marian - Urbaniak, M. - Janouš, Dalibor

Forest ecosystem as a source of CO₂ during growing season: relation to weather conditions.

International Agrophysics. Roč. 28, č. 2 (2014), s. 239-249. ISSN 0236-8722

R&D Projects: GA MŠk(CZ) ED1.1.00/02.0073; GA MŠk(CZ) EE2.4.31.0056; GA MŠk(CZ) LM2010007

Institutional Support: RVO:67179843

Keywords: net ecosystem production * CO₂ source days * eddy covariance * weather conditions * Norway spruce

Subject RIV: EH - Ecology, Behaviour

Impact factor: 1.142, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235140>

0427648 - UOCHB-X 2015 RIV US eng J - Journal Article

Timr, Štěpán - Bondar, Alexey - Cwiklik, Lukasz - Štefl, Martin - Hof, Martin - Vazdar, M. - Lazar, Josef - Jungwirth, Pavel

Accurate Determination of the Orientational Distribution of a Fluorescent Molecule in a Phospholipid Membrane.

Journal of Physical Chemistry B. Roč. 118, č. 4 (2014), s. 855-863. ISSN 1520-6106

R&D Projects: GA ČR GA13-10799S; GA ČR GBP208/12/G016; GA MŠk LH12001

Institutional Support: RVO:61388963 ; RVO:67179843 ; RVO:61388955

Keywords: hydroxyflavone * vesicles * molecular orientation * fluorescence spectroscopy * polarization microscopy * molecular dynamics * quantum chemistry

Subject RIV: CF - Physical & Theoretical Chemistry

Impact factor: 3.377, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233168>

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0430075 - UEK-B 2015 RIV GB eng J - Journal Article

Trnka, Miroslav - Rötter, R. P. - Ruiz-Ramos, M. - Kersebaum, K. C. - Olesen, J. E. - Žalud, Zdeněk - Semenov, M. A.

Adverse weather conditions for European wheat production will become more frequent with climate change.

Nature Climate Change. Roč. 4, - (2014), s. 637-643. ISSN 1758-678X

R&D Projects: GA MŠk(CZ) EE2.3.20.0248; GA MZe QJ1310123

Institutional Support: RVO:67179843

Subject RIV: DG - Atmosphere Science, Meteorology

Impact factor: 15.295, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235050>

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