

NOVÁ LICHENOLOGICKÁ LITERATURA XX.

New lichenological literature, XX

Zdeněk P a l i c e

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- Amo de Paz G., Lumbsch H. T., Cubas P., Elix J. A. & Crespo A. (2010): The morphologically deviating genera *Omphalodiella* and *Placoparmelia* belong to *Xanthoparmelia* (Parmeliaceae). – *Bryologist* 113: 376–386.
- Amo de Paz G., Raggio J., Gómez-Serranillos M. P., Palomino O. M., González-Burgos E., Carretero M. E. & Crespo A. (2010): HPLC isolation of antioxidant constituents from *Xanthoparmelia* spp. – *Journal of Pharmaceutical and Biomedical Analysis* 53: 165–171.
- Andreev M. (2010): *Halecania santessonii*, a new lichenicolous lichen from Russia. – *Lichenologist* 42: 249–252.
- Aptroot A. & Schumm F. (2010): Chimeras occur on the pantropical Lichinomycete *Phyllopetula corticola*. – *Lichenologist* 42: 307–310.
- Aragón G., López R. & Martínez I. (2010): Effects of Mediterranean dehesa management on epiphytic lichens. – *Science of the Total Environment* 409: 116–122.
- Aragón G., Martínez I., Izquierdo P., Belinchón R. & Escudero A. (2010): Effects of forest management on epiphytic lichen diversity in Mediterranean forests. – *Applied Vegetation Science* 13: 183–194.
- Armstrong R. A. (2010): Lobe formation and division in the foliose lichen *Xanthoparmelia conspersa*. – *Symbiosis* 51: 227–232.
- Armstrong R. A. & Bradwell T. (2010): Growth of crustose lichens: a review. – *Geografiska Annaler* 92A: 3–17.
- Armstrong R. A. & Bradwell T. (2010): The use of lichen growth rings in lichenometry: some preliminary findings. – *Geografiska Annaler* 92A: 141–147.
- Asplund J., Johansson O., Nybakken L., Palmqvist K. & Gauslaa Y. (2010): Simulated nitrogen deposition influences gastropod grazing in lichens. – *Ecoscience* 17: 83–89.
- Asplund J., Larsson P., Vatne S. & Gauslaa Y. (2010): Gastropod grazing shapes the vertical distribution of epiphytic lichens in forest canopies. – *Journal of Ecology* 98: 218–225.
- Augusto S., Máguas C. & Branquinho C. (2009): Understanding the performance of different lichen species as biomonitors of atmospheric dioxins and furans: potential for intercalibration. – *Ecotoxicology* 18: 1036–1042.
- Augusto S., Máguas S., Matos J., Pereira M. J. & Branquinho C. (2010): Lichens as an integrating tool for monitoring PAH atmospheric deposition: a comparison with soil, air and pine needles. – *Environmental Pollution* 158: 483–489.
- Bader M. Y., Zotz G. & Lange O. L. (2010): How to minimize the sampling effort for obtaining reliable estimates of diel and annual CO₂ budgets in lichens. – *Lichenologist* 42: 97–111.
- Baloch E., Lücking R., Lumbsch H. T. & Wedin M. (2010): Major clades and phylogenetic relationships between lichenized and non-lichenized lineages in Ostropales (Ascomycota: Lecanoromycetes). – *Taxon* 59: 1483–1494.
- Bates S. T., Barber A., Gilbert E., Schroder R. T. & Nash III T. H. (2010): a revised catalog of Arizona lichens. – *Canotia* 6: 26–43.
- Berger F. & Priemtzhofer F. (2010): Die Flechtenflora im Nationalpark Thayatal (Niederösterreich, Österreich). – *Wissenschaftliche Mitteilungen aus dem Niederösterreichischen Landesmuseum, St. Pölten*, 21: 135–184.
- Berger F., Priemtzhofer F. & Türk R. (2009): Atlas der Verbreitung der Flechten in Oberösterreich. – *Stapfia* 90: 1–320.
- Biazrov L. G. (2010): Die Dynamik der Artendiversität den epiphytischen Flechten des Nordbezirks des Moskaus (Russland). – *Archive for Lichenology* 6: 1–8.
- Bielczyk U. & Kościelniak R. (2009): Lichenologiczne walory Karpat. – *Roczniki Bieszczadzkie* 17: 59–77.
- Bilovitz P. O. & Mayrhofer H. (2010): Lichenized and lichenicolous fungi from the Sutjeska National Park (Bosnia and Herzegovina), with special emphasis on the virgin forest reserve Perućica. – *Bibliotheca Lichenologica* 104: 65–76.

- Bilovitz P. O., Stešević D. & Mayrhofer H. (2010): Epiphytic lichens and lichenicolous fungi from the northern part of Montenegro. – *Herzogia* 23: 249–256.
- Bilovitz P. O., Türk R. & Mayrhofer H. (2010): Additional lichens and some lichenicolous fungi from the Una National Park (Bosnia and Herzegovina). – *Fritschiana* 67: 27–32.
- Blom H. H. & Lindblom L. (2010): *Degelia cyanoloma* (Schaer.) H. H. Blom & L. Lindblom comb. et stat. nov., a distinct species from western Europe. – *Lichenologist* 42: 23–27.
- Bogo D., de Matos M. F., Honda N. K., Pontes E. C., Oguma P. M., da Santos E. C., de Carvalho J. E. & Nomizo A. (2010): In vitro antitumour activity of orsellinates. – *Zeitschrift für Naturforschung* 65C: 43–48.
- Bowker M.A., Belnap J. & Davidson D.W. (2010): Microclimate and propagule availability are equally important for rehabilitation of dryland N-fixing lichens. – *Restoration Ecology* 18: 30–33.
- Bradtka J., Bässler C. & Müller J. (2010): Baumbewohnende Flechten als Zeiger für Prozessschutz und ökologische Kontinuität im Nationalpark Bayerischer Wald. – *Waldökologie, Landschaftsforschung und Naturschutz* 9: 49–63.
- Breuss O. (2010): An updated world-wide key to the catapyrenioid lichens (Verrucariaceae). – *Herzogia* 23: 205–216.
- Breuss O. (2010): Bemerkenswerte Flechtenfunde aus Niederösterreich und der Steiermark 3. – *Stapfia* 92: 2–4.
- Breuss O. & Berger F. (2010): Die *Verrucaria*-Arten mit braunem Lager in den österreichischen Kalkalpen. Eine vorläufige Übersicht mit Bestimmungsschlüssel. – *Bibliotheca Lichenologica* 104: 77–116.
- Breuss O. & Spier L. (2010): *Hypotrachyna afroevoluta* (lichenisierte Ascomycota, Parmeliaceae) in Österreich. – *Stapfia* 92: 5–6.
- Britton A. J. & Fisher J. M. (2010): Terricolous alpine lichens are sensitive to both load and concentration of applied nitrogen and have potential as bioindicators of nitrogen deposition. – *Environmental Pollution* 158: 1296–1302.
- Brunauer G., Muggia L., Stocker-Wörgötter E. & Grube M. (2009): A transcribed polyketide synthase gene from *Xanthoria elegans*. – *Mycological Research* 113: 82–92.
- Brunialti G., Frati L., Aleffi M., Marignani M., Rosati L., Burrascano S. & Ravera S. (2010): Lichens and bryophytes as indicators of old-growth features in Mediterranean forests. – *Plant Biosystems* 144: 221–233.
- Buldakov M. S. (2010): Intraspecific variation in the viability of soredia in *Hypogymnia physodes* (L.) Nyl. (Ascomycota: Lecanorales). – *Russian Journal of Ecology* 41: 211–217.
- Burgaz A. R. (2009): El género *Cladonia* en la península Ibérica. Supergrupo *Cocciferae*. – *Botanica Complutensis* 33: 9–28.
- Cameron R., Neily T. & Anderson F. (2010): Observations of mortality in a small population of the endangered lichen *Erioderma pedicellatum*. – *Opuscula Philolichenum* 8: 67–70.
- Caruso A., Thor G. & Snäll T. (2010): Colonization – extinction dynamics of epixylic lichens along a decay gradient in a dynamic landscape. – *Oikos* 119: 1947–1953.
- Clerc P. (2009): Deuxième complément au Catalogue des lichens de Suisse. – *Meylania* 42 : 7–14.
- Cornejo C. & Scheidegger C. (2010): *Lobaria macaronesica* sp. nov., and the phylogeny of *Lobaria* sect. *Lobaria* (Lobariaceae) in Macaronesia full access. – *Bryologist* 113: 590–604.
- Coste C. (2009): Inventaire préliminaire des lichens et des communautés lichéniques de la réserve naturelle des Gorges du Gardon (Gard). – *Bulletin de la Société d'Etude des Sciences Naturelles de Nîmes et du Gard* 67: 29–43.
- Coste C. & Dufrêne P. (2009): Reasoned inventory of the lichens and lichenicolous fungi of the Cascades of Mortain (department of Manche, 50). – *Société Tarnaise de Sciences Naturelles* 2009: 57–80.
- Crespo A., Kauff F., Divakar P. K., Del Prado R., Pérez-Ortega S., Amo de Paz G. et al. (2010): Phylogenetic generic classification of parmelioid lichens (Parmeliaceae, Ascomycota) based on molecular, morphological and chemical evidence. – *Taxon* 59: 1735–1753.
- Czarnota P. & Guzow-Krzemińska B. (2010): a phylogenetic study of the *Micarea prasina* group shows that *Micarea micrococca* includes three distinct lineages. – *Lichenologist* 42: 7–21.
- Czarnota P., Osyczka P. & Kowalewska A. (2010): Status of some poorly known lichen species from the genus *Lecanora* (lichenized Ascomycota) in Poland. – *Mycotaxon* 113: 449–462.
- Czeczuga B., Czeczuga-Semeniuk E. & Semeniuk A. (2010): Chromatic adaptation in lichen phyco- and photobionts. – *Biologia* 65: 587–594.
- Dal Grande F., Widmer I., Beck A. & Scheidegger C. (2010): Microsatellite markers for *Dictyoichloropsis reticulata* (Trebouxiophyceae), the symbiotic alga of the lichen *Lobaria pulmonaria* (L.). – *Conservation Genetics* 11: 1147–1149.

- Davydov E. A., Peršoh D. & Rambold G. (2010): The systematic position of *Lasallia caroliniana* (Tuck.) Davydov, Peršoh & Rambold comb. nova and considerations on the generic concept of *Lasallia* (Umbilicariaceae, Ascomycota). – *Mycological Progress* 9: 261–266.
- de la Torre R., Sancho L. G., Horneck G., de los Ríos A., Wierzchos J., Olsson-Francis K., Cockell C. S., Rettberg P., Berger T., de Vera J.-P. P., Ott S., Martínez Frías J., Gonzales Melendi P., Lucas M. M., Reina M., Pintado A. & Demets R. (2010): Survival of lichens and bacteria exposed to outer space conditions – Results of the Lithopanspermia experiments. – *Icarus* 208: 735–748.
- Del-Prado R., Cubas P., Lumbsch H. T., Divakar P. K., Blanco O., Amo de Paz G., Molina M. C. & Crespo A. (2010): Genetic distances within and among species in monophyletic lineages of Parmeliaceae (Ascomycota) as a tool for taxon delimitation. – *Molecular Phylogenetics and Evolution* 56: 125–133.
- Dietrich M. & Bürgi-Meyer K. (2010): Interessante gesteinsbewohnende Flechten am Tossen bei Schimbrigbad in der UNESCO Biosphäre Entlebuch (Kanton Luzern, Zentralschweiz). – *Herzogia* 23: 75–84.
- Divakar P. K., Figueras G., Hladun N. L. & Crespo A. (2010): Molecular phylogenetic studies reveal an undescribed species within the North American concept of *Melanelixia glabra* (Parmeliaceae). – *Fungal Diversity* 42: 47–55.
- Doering M. & Coxson D. (2010): Riparian alder ecosystems as epiphytic lichen refugia in sub-boreal spruce forests of British Columbia. – *Botany* 88: 144–157.
- Eichler M., Cezanne R. & Teuber D. (2010): Ergänzungen zur Liste der Flechten und flechtenbewohnenden Pilze Hessens. Zweite Folge. – *Botanik und Naturschutz in Hessen* 23: 89–110.
- Eichler M., Cezanne R., Diederich P., Ertz D., Van den Broeck D., van den Boom P. & Sérusiaux E. (2010): New or interesting lichens and lichenicolous fungi from Belgium, Luxembourg and northern France. XIII. – *Bulletin de la Société des naturalistes luxembourgeois* 111: 33–46.
- Ellis C. J. & Coppins B. J. (2010): Integrating multiple landscape-scale drivers in the lichen epiphyte response: climatic setting, pollution regime and woodland spatial-temporal structure. – *Diversity and Distributions* 16: 43–52.
- Ellis C. J. & Coppins B. J. (2010): Partitioning the role of climate, pollution and old-growth woodland in the composition and richness of lichen epiphytes in Scotland. – *Lichenologist* 42: 601–614.
- Elvebakk A., Robertsen E. H., Park C. H. & Hong S. G. (2010): *Psorophorus* and *Xanthopsoroma*, two new genera for yellow-green, corticolous and squamulose lichen species, previously in *Psoroma*. – *Lichenologist* 42: 563–585.
- Etayo J. (2010): Líquenes y hongos liquenícolas de Aragón. – *Guineana* 16: 1–501.
- Farkas E. (2010): Notes and schedae to Lichenes Delicati Exsiccati Editae in memoriam Antonín Vězda (1920–2008), Fasc. 1. – *Acta Botanica Hungarica* 52: 331–340.
- Favero-Longo S. & Piervittori R. (2009): Measuring the biodiversity of saxicolous lichens above timberline with reference to environmental factors: the case-study of a Natura 2000 site of western Alps. – *Phytocoenologia* 39: 51–78.
- Fernández-Marín B., Becerril J. M. & García-Plazaola J. I. (2010): Unravelling the roles of desiccation-induced xanthophyll cycle activity in darkness: a case study in *Lobaria pulmonaria*. – *Planta* 231: 1335–1342.
- Fontaine K. M., Ahti T. & Piercey-Normore M. D. (2010): Convergent evolution in *Cladonia gracilis* and allies. – *Lichenologist* 42: 323–338.
- Frahm J.-P., Schumm F. & Stapper N. J. (2010): Epiphytische Flechten als Umweltgütezeiger: eine Bestimmungshilfe. – Books on Demand GmbH, Norderstedt. [164 pp.]
- Frisch A. & Thor G. (2010): *Crypthonia*, a new genus of byssoid Arthoniaceae (lichenised Ascomycota). – *Mycological Progress* 9: 281–303.
- Fritz Ö. & Heilmann-Clausen J. (2010): Rot holes create key microhabitats for epiphytic lichens and bryophytes on beech (*Fagus sylvatica*). – *Biological Conservation* 143: 1008–1016.
- Fryday A. M. & Lendemer J. C. (2010): Reassessment of the genus *Catillochroma* (lichenized Ascomycota, Ramalinaceae). – *Lichenologist* 42: 587–600.
- Gasulla F., Guéra A. & Barreno E. (2010): „A simple and rapid method for isolating lichen photobionts”. – *Symbiosis* 51: 175–179.
- Gauslaa Y., Larsson P. & Asplund J. (2010): Selective feeding by gastropods in *Lobaria scrobiculata* allows quantification of intrathalline anatomical layers. – *Lichenologist* 42: 621–625.
- Geiser L. H., Jovan S. E., Glavich D. A. & Porter M. K. (2010): Lichen-based critical loads for atmospheric nitrogen deposition in Western Oregon and Washington Forests, USA. – *Environmental Pollution* 158: 2412–2421.

- Geml J., Kauff F., Brochmann C. & Taylor D. L. (2010): Surviving climate changes: high genetic diversity and transoceanic gene flow in two arctic-alpine lichens, *Flavocetraria cucullata* and *F. nivalis* (Parmeliaceae, Ascomycota). – *Journal of Biogeography* 37: 1529–1542.
- Giordani P., Brunialti G., Benesperi R., Rizzi G., Frati L. & Modenesi P. (2009): Rapid biodiversity assessment in lichen diversity surveys: implications for quality assurance. – *Journal of Environmental Monitoring* 11: 730–735.
- Giralt M., van den Boom P. P. G. & Elix J. A. (2010): *Endohyalina*, the genus in the Physciaceae to accommodate the species of the *Rinodina ericina*-group. – *Mycological Progress* 9: 37–48.
- Grube M. (2010): Die Hard: Lichens. – In: Seckbach J. & Grube M. (eds), *Symbioses and Stress: Joint Ventures in Biology, Cellular Origin, Life in Extreme Habitats and Astrobiology* 17, p. 509–523, Springer, Dordrecht-Heidelberg-London-New York.
- Grube M. & Muggia L. (2010): Identifying algal symbionts in lichen symbioses. – In: Nimis P. L. & Vignes Lebbe R. (eds), *Tools for Identifying Biodiversity: Progress and Problems. Proceedings of the International Congress Paris, September 20–22, 2010*, p. 295–299, Università de Trieste.
- Grube M., Rabensteiner J., Grube U. & Muggia L. (2010): Architectures of biocomplexity: Lichen-dominated soil crusts and mats. – In: Seckbach J. & Oren A. (eds), *Microbial Mats: Modern and Ancient Microorganisms in Stratified Systems, Cellular Origin, Life in Extreme Habitats and Astrobiology* 14, p. 341–357, Springer, Dordrecht-Heidelberg-London-New York.
- Hafellner J. (2010): Contributions to a revision of lichenized, phaeospored species of *Polyblastia* coll., mainly in the Central European mountains. – *Bibliotheca Lichenologica* 104: 117–141.
- Halıcı M. G., Kocakaya M., Sweeney K., Fankhauser J. D. & Schmitt I. (2010): *Pertusaria paramerae* (Pertusariales, Ascomycota), a species with variable secondary chemistry, and a new lichen record for Turkey. – *Nova Hedwigia* 91: 223–230.
- Hansen E. S. (2010): a review of lichen growth and applied lichenometry in southwest and southeast Greenland. – *Geografiska Annaler* 92A: 65–79.
- Harris R. C. & Lendemer J. C. (2010): a review of *Lecania croatica* (syn. *Catillaria croatica*) in North America. – *Opuscula Philolichenum* 8: 41–49.
- Hauck M. (2010): Ammonium and nitrate tolerance in lichens. – *Environmental Pollution* 158: 1127–1133.
- Hauck M., Jürgens S.-R. & Leuschner C. (2010): Effect of amino acid moieties on metal binding in pulvinic acid derivatives and ecological implications for lichens producing these compounds. – *Bryologist* 113: 1–7.
- Hauck M., Jürgens S.-R. & Leuschner C. (2010): Norstictic acid: correlations between its physico-chemical characteristics and ecological preferences of lichens producing this depsidones. – *Environmental and Experimental Botany* 68: 309–313.
- Hauck M. & Wirth V. (2010): New combinations in *Bacidina*. – *Herzogia* 23: 15–17.
- Hauck M. & Wirth V. (2010): Preference of lichens for shady habitats is correlated with intolerance to high nitrogen levels. – *Lichenologist* 42: 475–484.
- Heber U., Bilger W., Türk R. & Lange O. L. (2010): Photoprotection of reaction centres in photosynthetic organisms: mechanisms of thermal energy dissipation in desiccated thalli of the lichen *Lobaria pulmonaria*. – *New Phytologist* 185: 459–470.
- Hertel H. & Schuhwerk F. (2010): On saxicolous lecideoid lichens growing in the European Alps at high altitudes. – *Bibliotheca Lichenologica* 104: 161–239.
- Hodkinson B. P., Lendemer J. C. & Esslinger T. L. (2010): *Parmelia barrenoae*, a macrolichen new to North America and Africa. – *North American Fungi* 5: 1–5.
- Hogan E. J., Minnullina G., Sheppard L. J., Leith I. D. & Crittenden P. D. (2010): Response of phosphomonoesterase activity in the lichen *Cladonia portentosa* to nitrogen and phosphorus enrichment in a field manipulation experiment. – *New Phytologist* 186: 926–933.
- Hogan E. J., Minnullina G., Smith R. I. & Crittenden P. D. (2010): Effects of nitrogen enrichment on phosphatase activity and nitrogen : phosphorus relationships in *Cladonia portentosa*. – *New Phytologist* 186: 911–925.
- Honda N. K., Pavan F. R., Coelho R. G., de Andrade Leite S. R., Micheletti A. C., Lopes T. I. B., Misutsu M. Y., Beatriz A., Brum R. L. & Leite C. Q. F. (2010): Antimycobacterial activity of lichen substances. – *Phytomedicine* 17: 328–332.
- Itten B. & Honegger R. (2010): Population genetics in the homothallic lichen-forming ascomycete *Xanthoria parietina*. – *Lichenologist* 42: 751–761.
- Jääskeläinen K., Pykälä J., Rämä H., Vitikainen O., Haikonen V., Högnabba F., Lommi S. & Puolasmaa A. (2010): Jäkälät • Lichens • Lichenes. – In: Rassi P., Hyvärinen E., Juslén A. & Mannerkoski I. (eds),

- Suomen lajien uhanalaisuus Jäkälät • punainen kirja 2010. The 2010 Red List of Finnish Species, p. 278–283, Ympäristöministeriö & Suomen ympäristökeskus, Helsinki.
- Jabłońska A. (2010): The lichen genus *Porpidia* in Poland III. – *Herzogia* 23: 217–228.
- Johansson O., Nordin A., Olofsson J. & Palmqvist K. (2010): Responses of epiphytic lichens to an experimental whole-tree nitrogen-deposition gradient. – *New Phytologist* 188: 1075–1084.
- Johansson V., Snäll T., Johansson P. & Ranius T. (2010): Detection probability and abundance estimation of epiphytic lichens based on height-limited surveys. – *Journal of Vegetation Science* 21: 332–341.
- Jørgensen P. M. (2010): New discoveries in the lichen genus *Staurolemma* Körber. – *Nova Hedwigia* 90: 153–159.
- Jørgensen P. M. & Tønsgaard T. (2010): The lichen *Bryoria bicolor* found fertile in western Norway. – *Graphis Scripta* 22: 52–53.
- Junttila S., Lim K.-J. & Rudd S. (2009): Optimization and comparison of different methods for RNA isolation for cDNA library construction from the reindeer lichen *Cladonia rangiferina*. – *BMC Research Notes* 2: 204. [5 p.]
- Kantvilas G. & Fryday A. M. (2010): Two additions to the lichen genus *Cliostomum* Fr. (Ramalinaceae) with broad ascospores. – *Lichenologist* 42: 539–545.
- Kantvilas G., Papong K. & Lumbsch H. T. (2010): Further observations on the genus *Maronina*, with descriptions of two new taxa from Thailand. – *Lichenologist* 42: 557–561.
- Klein D. R. & Shulski M. (2009): Lichen recovery following heavy grazing by reindeer delayed by climate warming. – *Ambio* 38: 11–16.
- Kosanić M., Ranković B. & Sukdolak S. (2010): Antimicrobial activity of the lichen *Lecanora frustulosa* and *Parmeliopsis hyperopta* and their divaricatic acid and zeorin constituents. – *African Journal of Microbiology Research* 4: 885–890.
- Kotelko R. & Piercey-Normore M. D. (2010): *Cladonia pyxidata* and *C. pocillum*; genetic evidence to regard them as conspecific. – *Mycologia* 102: 534–545.
- Koz B., Celik N. & Cevik U. (2010): Biomonitoring of heavy metals by epiphytic lichen species in Black Sea region of Turkey. – *Ecological Indicators* 10: 762–765.
- Krzewicka B. (2010): *Umbilicaria rhizinata* comb. nov. (lichenized Ascomycota). – *Lichenologist* 42: 491–493.
- Kukwa M. & Pérez-Ortega S. (2010): a second species of *Botryolepraria* from the Neotropics and the phylogenetic placement of the genus within Ascomycota. – *Mycological Progress* 9: 345–351.
- Kukwa M. & Zhurbenko M. P. (2010): Notes on the lichen genus *Lepraria* from the Arctic. – *Graphis Scripta* 22: 3–8.
- Laundon J. R. (2010): *Lecanora antiqua*, a new saxicolous species from Great Britain, and the nomenclature and authorship of *L. albescens*, *L. conferta* and *L. muralis*. – *Lichenologist* 42: 631–636.
- Leal J. A., Prieto A., Bernabé M. & Hawksworth D. L. (2010): An assessment of fungal wall heteromannans as a phylogenetically informative character in ascomycetes. – *FEMS Microbiology Reviews* 31: 30–35.
- Lendemer J. C. (2010): Notes on *Lepraria* s.l. (Lecanoromycetes, Ascomycota) in North America: New species, new reports, and preliminary keys. – *Brittonia* 62: 267–292.
- Lendemer J. C. & Hodkinson B. P. (2010): A new perspective on *Punctelia subrudecta* (Parmeliaceae) in North America: previously rejected morphological characters corroborate molecular phylogenetic evidence and provide insight into an old problem. – *Lichenologist* 42: 405–421.
- Lendemer J. C., Knudsen K. & Fryday A. M. (2010): New and interesting lichens, lichenicolous and allied fungi from Yosemite National Park, California, U.S.A.. – *Opuscula Philolichenum* 8: 107–120.
- Lendemer J. C. & Westberg M. (2010): *Candelariella xanthostigmoides* in North America. – *Opuscula Philolichenum* 8: 75–81.
- Lidén M., Jonsson Čabarić A. V., Ottosson-Löfvenius M., Palmqvist K. & Lundmark T. (2010): Species-specific activation time-lags can explain habitat restrictions in hydrophilic lichens. – *Plant, Cell and Environment* 33: 851–862.
- Llop E. (2010): *Bacidia punica* (Ramalinaceae), a new corticolous species from the Mediterranean region. – *Bryologist* 113: 365–370.
- Löhmus P., Turja K. & Löhmus A. (2010): Lichen communities on treefall mounds depend more on root-plate than stand characteristics. – *Forest Ecology and Management* 260: 1754–1761.
- Lommi S., Berglund H., Kuusinen M. & Kuuluvainen T. (2010): Epiphytic lichen diversity in late-successional *Pinus sylvestris* forests along local and regional forest utilization gradients in eastern boreal Fennoscandia. – *Forest Ecology and Management* 259: 883–892.

- Loppi S. & Nascimbene J. (2010): Monitoring H₂S air pollution caused by the industrial exploitation of geothermal energy: The pitfall of using lichens as bioindicators. – *Environmental Pollution* 158: 2635–2639.
- Lücking R., Wirth V. & Ahrens M. (2009): Foliicolous lichens in the Black Forest, Southwest Germany. – *Carolinaea* 67: 23–31.
- Lumbsch H. T., Hipp A. L., Divakar P. K., Blanco O. & Crespo A. (2008): Accelerated evolutionary rates in tropical and oceanic parmelioid lichens (Ascomycota). – *BMC Evolutionary Biology* 8: 257. [12 p.]
- Lumbsch H. T. & Huhndorf S. M. (2010): Myconet Volume 14. Part One. Outline of Ascomycota – 2009. Part Two. Notes on Ascomycete Systematics. Nos. 4751–5113. – *Fieldiana: Life & Earth Sciences, N.S.*, 1: 1–64.
- Lumbsch H. T., Parmen S., Rangiruji A. & Elix J. A. (2010): Phenotypic disparity and adaptive radiation in the genus *Cladia* (Lecanorales, Ascomycota). – *Australian Systematic Botany* 23: 239–247.
- Mardari L. (2009): New lichen species identified in Bistrita Mountains (Eastern Carpathians). – *Journal of Plant Development* 16: 17–19.
- Marmor L., Törre T. & Randle T. (2010): The vertical gradient of bark pH and epiphytic macrolichen biota in relation to alkaline air pollution. – *Ecological Indicators* 10: 1137–1143.
- Matwiejuk A. (2009): Porosty Miejsowości Boćki i okolic na Podlasiu (NE Polska). Lichens of the Boćki and its surroundings in Podlasie (NE Poland). – *Opole Scientific Society Nature Journal* 42: 49–61.
- McMullin R. T., Duinker P. N., Richardson D. H. S., Cameron R. P., Hamilton D. C. & Newmaster S. G. (2010): Relationships between the structural complexity and lichen community in coniferous forests of southwestern Nova Scotia. – *Forest Ecology and Management* 260: 744–749.
- Melechin A. V. (2010): *Stereocaulon leucophaeopsis* and *S. tornense* new to Russia from the Murmansk region. – *Graphis Scripta* 22: 63–64.
- Messuti M. I. & Lorenzo L. E. (2010): *Gloniella graphidoidea* Rehm, another species of the Hysteriaceae associated with algae. – *Lichenologist* 42: 533–538.
- Mikryukov V. S., Mikhailova I. N. & Scheidegger C. (2010): Reproductive parameters of *Lobaria pulmonaria* (L.) Hoffm. in the Urals. – *Russian Journal of Ecology* 41: 475–479.
- Molnár K. & Farkas E. (2010): Current results on biological activities of lichen secondary metabolites: a review. – *Zeitschrift für Naturforschung* 65C: 157–173.
- Muggia L. & Grube M. (2010): Fungal composition of lichen thalli assessed by single strand conformation polymorphism. – *Lichenologist* 42: 461–473.
- Muggia L. & Grube M. (2010): Type III polyketide synthases in lichen mycobionts. – *Fungal Biology* 114: 379–385.
- Muggia L., Gueidan C. & Grube M. (2010): Phylogenetic placement of some morphologically unusual members of Verrucariales. – *Mycologia* 102: 835–846.
- Muggia L., Zellnig G., Rabensteiner J. & Grube M. (2010): Morphological and phylogenetic study of algal partners associated with the lichen-forming fungus *Tephromela atra* from the Mediterranean region. – *Symbiosis* 51: 149–160.
- Munzi S., Pisani T., Paoli L. & Loppi S. (2010): Time- and dose-dependency of the effects of nitrogen pollution on lichens. – *Ecotoxicology and Environmental Safety* 73: 1785–1788.
- Nadyeina O., Grube M. & Mayrhofer H. (2010): A contribution to the taxonomy of the genus *Rinodina* (Physciaceae, lichenized Ascomycotina) using combined ITS and mtSSU rDNA data. – *Lichenologist* 42: 521–531.
- Nascimbene J., Brunialti G., Ravera S., Frati L. & Caniglia G. (2010): Testing *Lobaria pulmonaria* (L.) Hoffm. as an indicator of lichen conservation importance of Italian forests. – *Ecological Indicators* 10: 353–360.
- Nascimbene J. & Marini L. (2010): Oak forest exploitation and black-locust invasion caused severe shifts in epiphytic lichen communities in Northern Italy. – *Science of the Total Environment* 408: 5506–5512.
- Nascimbene J., Marini L. & Nimis P. L. (2010): Epiphytic lichen diversity in old-growth and managed *Picea abies* stands in Alpine spruce forests. – *Forest Ecology and Management* 260: 603–609.
- Nascimbene J. & Nimis P. L. (2006): Freshwater lichens of the Italian Alps: a review. – *Annales de Limnologie – International Journal of Limnology* 42: 27–32.
- Nascimbene J., Marini L., Bacaro G. & Nimis P. L. (2010): Effect of reduction in sampling effort for monitoring epiphytic lichen diversity in forests. – *Community Ecology* 11: 250–256.
- Nascimbene J., Thüs H., Marini L. & Nimis P. L. (2007): Freshwater lichens in springs of the eastern Italian Alps: floristics, ecology and potential for bioindication. – *Annales de Limnologie – International Journal of Limnology* 43: 285–292.

- Neuwirth G. (2009): Flechtenfunde im Hausruckwald und seinen benachbarten Kulturlandschaften. – Beiträge zur Naturkunde Oberösterreichs 19: 249–267.
- Nordin A., Savić S. & Tibell L. (2010): Phylogeny and taxonomy of *Aspicilia* and Megasporaceae. – Mycologia 102: 1339–1349.
- Nybakken L., Helmersen A.-M., Gauslaa Y. & Selås V. (2010): Lichen compounds restrain lichen feeding by Bank Voles (*Myodes glareolus*). – Journal of Chemical Ecology 36: 298–304.
- Olsen H. B., Berthelsen K., Andersen H. V. & Søvsting U. (2010): *Xanthoria parietina* as a monitor of ground-level ambient ammonia concentrations. – Environmental Pollution 158: 455–461.
- Osyczka P. (2010): Alien lichens unintentionally transported to the „Arctowski“ station (South Shetlands, Antarctica). – Polar Biology 33: 1067–1073.
- Otálora M. A. G., Aragón G., Molina M. C., Martínez I. & Lutzoni F. (2010): Disentangling the *Collema-Leptogium* complex through a molecular phylogenetic study of the Collemataceae (Peltigerales, lichen-forming Ascomycota). – Mycologia 102: 279–290.
- Otálora M. A. G., Martínez I., Aragón G. & Molina M. C. (2010): Phylogeography and divergence date estimates of a lichen species complex with a disjunct distribution pattern. – American Journal of Botany 97: 216–223.
- Otálora M. A. G., Martínez I., O'Brien H., Molina M. C., Aragón G. & Lutzoni F. (2010): Multiple origins of high reciprocal symbiotic specificity at an intercontinental spatial scale among gelatinous lichens (Collemataceae, Lecanoromycetes). – Molecular Phylogenetics and Evolution 56: 1089–1095.
- Ozimec S., Bošković I., Florijančić T., Jelkić D., Opačak A., Puškadija Z. & Labak I. (2010): The lichen flora of Risnjak National Park (Croatia). – Acta Botanica Croatica 69: 19–29.
- Paltto H., Thomasson I. & Nordén B. (2010): Multispecies and multiscale conservation planning: setting quantitative targets for red-listed lichens on ancient oaks. – Conservation Biology 24: 758–768.
- Paoli L., Pirintsos S.A., Kotzabasis K., Pisani T., Navakoudis E. & Loppi S. (2010): Effects of ammonia from livestock farming on lichen photosynthesis. – Environmental Pollution 158: 2258–2265.
- Paoli L., Pisani T., Munzi S., Gaggi C. & Loppi S. (2010): Influence of sun irradiance and water availability on lichen photosynthetic pigments during a Mediterranean summer. – Biologia 65: 776–783.
- Parnmen S., Rangsiruji A., Mongkolsuk P., Boonpragob K., Elix J.A. & Lumbsch H.T. (2010): Morphological disparity in Cladoniaceae: The foliose genus *Heterodea* evolved from fruticose *Cladia* species (Lecanorales, lichenized Ascomycota). – Taxon 59: 841–849.
- Pérez-Ortega S., de los Ríos A., Crespo A. & Sancho L. G. (2010): Symbiotic lifestyle and phylogenetic relationships of the bionts of *Mastodia tessellata* (Ascomycota, incertae sedis). – American Journal of Botany 97: 738–752.
- Perlmutter G. B. (2010): Bioassessing air pollution effects with epiphytic lichens in Raleigh, North Carolina, U.S.A. – Bryologist 113: 39–50.
- Piercey-Normore M. D., Ahti T. & Goward T. (2010): Phylogenetic and haplotype analyses of four segregates within *Cladonia arbuscula* s.l. – Botany 88: 397–408.
- Pino-Bodas R., Burgaz A. R. & Martín M. P. (2010): Elucidating the taxonomic rank of *Cladonia subulata* versus *C. rei* (Cladoniaceae). – Mycotaxon 113: 311–326.
- Pino-Bodas R., Martín M. P. & Burgaz A. R. (2010): Insight into the *Cladonia convoluta*-*C. foliacea* (Cladoniaceae, Ascomycota) complex and related species, revealed through morphological, biochemical and phylogenetic analyses. – Systematics and Biodiversity 8: 575–586.
- Potenza G., Fascetti S., Ravera S. & Puntillo D. (2010): Lichens from sandy dune habitats on the Ionian Coast (Basilicata, southern Italy). – Cryptogamie, Mycologie 31: 59–65.
- Prieto M., Aragón G. & Martínez I. (2010): The genus *Catapyrenium* s. lat. (Verrucariaceae) in the Iberian Peninsula and the Balearic Islands. – Lichenologist 42: 637–684.
- Prieto M., Martínez I., Aragón G., Otálora M. A. G. & Lutzoni F. (2010): Phylogenetic study of *Catapyrenium* s.str. (Verrucariaceae, lichen-forming Ascomycota) and related genus *Placidiopsis*. – Mycologia 102: 291–304.
- Printzen C. (2010): Lichen systematics: the role of morphological and molecular data to reconstruct phylogenetic relationships. – Progress in Botany 71: 233–275.
- Puntillo D. & Puntillo M. (2009): Calicioid lichens and fungi of Italy: a state of the art. – Flora Mediterranea 19: 251–260.
- Pykälä J. (2010): Additions to the lichen flora of Finland. IV. – Graphis Scripta 22: 18–27.
- Pykälä J. (2010): Additions to the lichen flora of Finland. V. – Graphis Scripta 22: 54–62.
- Pykälä J. (2010): Notes on the lichen flora of the mountains Saana and Malla in NW Finland. – Memoranda Societatis pro Fauna et Flora Fennica 86: 34–42.

- Rambo T. R. (2010): Structure and composition of corticolous epiphyte communities in a Sierra Nevada old-growth mixed-conifer forest. – *Bryologist* 113: 55–71.
- Rivas Plata E., Lücking R., Sipman H. J. M., Mangold A., Kalb K. & Lumbsch H. T. (2010): a world-wide key to the thelotremoid Graphidaceae, excluding the *Ocellularia-Myriotrema-Stegobolus* clade. – *Lichenologist* 42: 139–185.
- Root H. T., McCune B. & Neitlich P. (2010): Lichen habitat may be enhanced by thinning treatments in young *Tsuga heterophylla-Pseudotsuga menziesii* forests. – *Bryologist* 113: 292–307.
- Sass O. (2010): Spatial and temporal patterns of talus activity – a lichenometric approach in the Stubai Alps, Austria. – *Geografiska Annaler* 92A: 375–391.
- Sawidis T., Tsigaridas K. & Tsikritzis L. (2010): Cesium-137 monitoring using lichens from W. Macedonia, N. Greece. – *Ecotoxicology and Environmental Safety* 73: 1789–1796.
- Schiefelbein U., de Bruyn U., Dolnik C., Stolley G. & Neumann P. (2010): New or interesting records of lichen-forming and lichenicolous fungi from northern Germany. – *Herzogia* 23: 85–91.
- Schmitt I., Fankhauser J. D., Sweeney K., Spribille T., Kalb K. & Lumbsch H. T. (2010): Gyalectoid *Pertusaria* species form a sister-clade to *Coccotrema* (Ostropomycetidae, Ascomycota) and comprise the new lichen genus *Gyalectaria*. – *Mycology* 1: 75–83.
- Schumm F. & Aptroot A. (2010): Seychelles Lichen Guide. – Beck, OHG, 73079 Süssen, Germany. [405 pp.]
- Seaward M. R. D. (2010): Census Catalogue of Irish Lichens (3rd Edition). – National Museums Northern Ireland, Belfast. [64 pp.]
- Şenkardeşler A. (2010): Additions and corrections of types in the genus *Buellia* s. lat. (Physciaceae) described by J. Steiner. – *Lichenologist* 42: 439–448.
- Sérusiaux E., Brand A. M., Motiejūnaite J., Orange A. & Coppins B. J. (2010): *Lecidea doliiformis* belongs to *Micarea*, *Catillaria alba* to *Biatora*, and *Biatora ligni-mollis* occurs in Western Europe. – *Bryologist* 113: 333–344.
- Sérusiaux E., van den Boom P. & Ertz D. (2010): a two-gene phylogeny shows the lichen genus *Niebla* (Lecanorales) is endemic to the New World and does not occur in Macaronesia nor in the Mediterranean basin. – *Fungal Biology* 114: 528–537.
- Sheard J. W. (2010): The lichen genus *Rinodina* (Lecanoromycetidae, Physciaceae) in North America, north of Mexico. – NRC Research Press, Ottawa. [246 pp.]
- Sheard J., Tønsberg T. & Johnsen J. I. (2010): *Rinodina roboris* and *R. orculata* new to Fennoscandia. – *Graphis Scripta* 22: 43–46.
- Sohrabi M. & Ahti T. (2010): Nomenclatural synopsis of the Old World's „manna” lichens (*Aspicilia*, Megasperaceae). – *Taxon* 59: 628–636.
- Sohrabi M., Myllys L. & Stenroos S. (2010): Successful DNA sequencing of a 75 year-old herbarium specimen of *Aspicilia aschabadensis* (J. Steiner) Mereschk. – *Lichenologist* 42: 626–628.
- Smeds A. I. & Kytöviita M. M. (2010): Determination of usnic and perlatolic acids and identification of olivetoric acids in Northern reindeer lichen (*Cladonia stellaris*) extracts. – *Lichenologist* 42: 739–749.
- Solhaug K. A., Larsson P. & Gauslaa Y. (2010): Light screening in lichen cortices can be quantified by chlorophyll fluorescence techniques for both reflecting and absorbing pigments. – *Planta* 231: 1003–1011.
- Spier L. (2009): Ein bemerkenswertes Vorkommen der Lungenflechte (*Lobaria pulmonaria*) bei Hallstatt. – *Beiträge zur Naturkunde Oberösterreichs* 19: 183–186.
- Spier L., van Dobben H. & van Dort K. (2010): Is bark pH more important than tree species in determining the composition of nitrophytic or acidophytic lichen floras?. – *Environmental Pollution* 158: 3607–3611.
- Stenroos S., Laukka T., Huhtinen S., Döbbeler P., Myllys L., Syrjänen K. & Hyvönen J. (2010): Multiple origins of symbioses between ascomycetes and bryophytes suggested by a five-gene phylogeny. – *Cladistics* 26: 281–300.
- Stamenković S. & Cvijan M. (2010): Determination of airpolution zones in Knjaževac (South. Eastern Serbia) by using epiphytic lichens. – In: Book of Abstracts, Second Balkan Conference on Biology, 21–23 May 2010, p. 278–283, Plovdiv, Bulgaria.
- Stepanchikova I. S., Kukwa M., Kuznetsova E. S., Motiejūnaite J. & Himelbrant D. E. (2010): New records of lichens and allied fungi from the Leningrad Region, Russia. – *Folia Cryptogamica Estonica* 47: 77–84.
- Suija A., Czarnota P., Himelbrant D., Kowalewska A., Kukwa M., Kuznetsova E., Leppik E., Motiejūnaite J., Piterāns A., Schiefelbein U., Skazina M., Sohrabi M., Stepanchikova I. & Veres K. (2010): The lichen biota of three nature reserves in island Saaremaa, Estonia. – *Folia Cryptogamica Estonica* 47: 85–96.
- Svensson M. & Westberg M. (2010): Additions to the lichen flora of Fennoscandia. – *Graphis Scripta* 22: 33–37.
- Szczepańska K. (2009): Czerwona lista porostów zagrożonych w polskiej części Masywu Śnieżnika i Gór Białskich (Sudety Wschodnie). – *Acta Botanica Silesiaca* 4: 143–159.

- Thor G., Arup U., Arvidsson L., Hermansson J., Hultengren S., Jonsson F. & Karström M. (2010): Lavar – Lichens – Lichenes. – In: Rödlistade arter i Sverige 2010 - The 2010 Red List of Swedish species, p. 285–300, ArtDatabanken, SLU, Uppsala.
- Thor G., Johansson P. & Jönsson M. T. (2010): Lichen diversity and red-listed lichen species relationships with tree species and diameter in wooded meadows. – *Biodiversity and Conservation* 19: 2307–2328.
- Thor G. & Nascimbene J. (2010): An annotated checklist and bibliography of lichens and lichenicolous fungi of Libya. – *Cryptogamie, Mycologie* 31: 67–95.
- Tretiach M., Bertuzzi S. & Salvadori O. (2010): Chlorophyll a fluorescence as a practical tool for checking the effects of biocide treatments on endolithic lichens. – *International Biodeterioration & Biodegradation* 64: 452–460.
- Tripp E. A., Lendemer J. C. & Harris R. C. (2010): Resolving the genus *Graphina* Müll. Arg. in North America: new species, new combinations, and treatments for *Acanthothecis*, *Carbacanthographis*, and *Diorygma*. – *Lichenologist* 42: 55–71.
- Valcárcel C. P., López de Silanes M. E. & Paz-Bermúdez G. (2010): *Verrucaria mundula* P.M. McCarthy (Verrucariaceae, Ascomycota) – a new record for the Northern Hemisphere. – *Bryologist* 113: 267–271.
- van den Boom P. P. G. (2010): Lichens and lichenicolous fungi from Lanzarote (Canary Islands), with the descriptions of two new species. – *Cryptogamie, Mycologie* 31: 183–199.
- van den Boom P. P. G. (2010): *Waynea giraltiae*, a new lichen species from the Iberian Peninsula. – *Lichenologist* 42: 29–33.
- Vatne S., Solhøy T., Asplund J. & Gauslaa Y. (2010): Grazing damage in the old forest lichen *Lobaria pulmonaria* increases with gastropod abundance in deciduous forests. – *Lichenologist* 42: 615–619.
- Vila B., Lamy D. & Verlaque R. (2010): R. Dughi et les collections de Lichens du Muséum d'Histoire Naturelle d'Aix-en-Provence: une source de matériel et de documentation oubliés. – *Cryptogamie, Mycologie* 31: 97–112.
- Vivas M., Sacristán M., Legaz M. E. & Vicente C. (2010): The cell recognition model in chlorolichens involving a fungal lectin binding to an algal ligand can be extended to cyanolichens. – *Plant Biology* 12: 615–621.
- Wang H. Y., Guo S. Y., Huang M. R., Lumbsch H. T. & Wei J. C. (2010): Ascomycota has a faster evolutionary rate and higher species diversity than Basidiomycota. – *Science China* 53: 1163–1169.
- Werth S. (2010): Population genetics of lichen-forming fungi – a review. – *Lichenologist* 42: 499–519.
- Werth S., Cornejo C. & Scheidegger C. (2010): A species-specific real-time PCR assay for identification of three lichen-forming fungi, *Lobaria pulmonaria*, *Lobaria immixta* and *Lobaria macaronesica*. – *Molecular Ecology Resources* 10: 401–403.
- Werth S. & Sork V. L. (2010): Identity and genetic structure of the photobiont of the epiphytic lichen *Ramalina menziesii* on three oak species in southern California. – *American Journal of Botany* 97: 821–830.
- Westberg M. & Arup U. (2010): *Candelaria concolor* – a rare lichen in the Nordic countries. – *Graphis Scripta* 22: 38–42.
- Widmer I., Dal Grande F., Cornejo C. & Scheidegger C. (2010): Highly variable microsatellite markers for the fungal and algal symbionts of the lichen *Lobaria pulmonaria* and challenges in developing biont-specific molecular markers for fungal associations. – *Fungal Biology* 114: 538–544.
- Wirth V. (2009): Die mediterrane Krustenflechte *Candelariella plumbea* Poelt & Vězda in Zentraleuropa. – *Carolinaea* 67: 19–21.
- Wirth V. (2010): Ökologische Zeigerwerte von Flechten – erweiterte und aktualisierte Fassung. – *Herzogia* 23: 229–248.
- Wirth V. & Hertel E. (2007): Beitrag zur Kenntnis der Flechtenbiota des Fichtelgebirges. – *Carolinaea* 65: 105–161.
- Wornik S. & Grube M. (2010): Joint dispersal does not imply maintenance of partnerships in lichen symbioses. – *Microbial Ecology* 59: 150–157.
- Yun M., Wadleigh M. A. & Mayer B. (2010): Variations of sulfur isotope ratios in a single lichen thallus: a potential historical archive for sulfur pollution. – *Environmental Pollution* 158: 3534–3538.
- Zyryanova O. O. (2010): Lichens of steppe phytocenoses in the „Khakasskii” state nature reserve. – *Contemporary Problems of Ecology* 3: 215–220.