

Recent literature on lichens—250

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- Abas, A. & A. Awang. 2017. Air pollution assessments using lichen biodiversity index (LBI) in Kuala Lumpur, Malaysia. *Pollution Research* 36(2): 241–248.
- Ahti, T., M. Sohrabi, E. A. Davydov, R. Pino-Bodas & S. Stenroos. 2016. Taxonomic notes on Asian species of *Cladonia* (Cladoniaceae, Ascomycota). *Journal of Japanese Botany* 91(Supplement): 388–395. [New: *C. fragosa* Ahti & Sohrabi (from China), *C. sinoaltaica* Ahti & Davydov (from China), *C. sumatrana* Ahti (from Indonesia).]
- Alqahtani, M. A. M., A. E. Mohammed, S. I. Daoud, D. H. M. Alkhalifah & J. S. Albrahim. 2017. Lichens (*Parmotrema clavuliferum*) extracts: Bio-mediator in silver nanoparticles formation and antibacterial potential. *Journal of Bionanoscience* 11(5): 410–415.
- Alves, L. F. & T. V. C. Pontes. 2017. Research with chemistry and pharmacology of natural products in Brazil: A comparison with 70 selected countries from 5 continents. *Revista Virtual de Quimica* 9(4): 1394–1433.
- Antony-Babu, S., D. Stien, V. Eparvier, D. Parrot, S. Tomasi & M. T. Suzuki. 2017. Multiple *Streptomyces* species with distinct secondary metabolomes have identical 16S rRNA gene sequences. *Scientific Reports* 7: 11089. [Strains were derived from *Lichina* and *Roccella* species.]
- Athukorala, S. N. P., J. Doering & M. D. Piercey-Normore. 2015. Morphological and genetic polymorphism in two North American reindeer lichens: *Cladonia arbuscula* and *C. rangiferina*. *Ceylon Journal of Science (Biological Sciences)* 44(2): 55–65.
- Bagheri, R., S. Mehregan, A. Yousefi & E. Mirrezaei. 2017. Cosmogenic radionuclide ⁷Be concentration in seven species of lichens and its correlation with ⁴⁰K, ¹³⁷Cs and ²²⁶Ra. *International Journal of Environmental Science and Technology* 14(11): 2443–2450.
- Bashkin, V. N. 2017. Biogeochemical cycles in tundra ecosystems in areas impacted by gas industry facilities. *Geochemistry International* 55(10): 946–956. [Translated and reprinted from *Geokhimiya* 10: 954–966.]
- Belliveau, A. G. & R. T. McMullin. 2017. *Parmotrema perforatum* new to Canada from Kejimikujik National Park and National Historic Site in Nova Scotia, Canada. *Opuscula Philolichenum* 16: 322–328.
- Benatti, M. N. & M. P. Marcelli. 2017. Foliose Physciaceae from the State Park of Cantareira, São Paulo State, Brazil [Physciaceae foliosas do Parque Estadual da Cantareira, Estado de São Paulo, Brasil. II. Gêneros *Heterodermia* e *Polyblastidium*]. *Iheringia, Série Botânica* 27(2): 255–266. [In Portuguese with English abstract. New: *H. velata* Marcelli & Benatti (from Brazil).]
- Bingul, Z., H. Gurbuz, A. Aslan & S. Ercisli. 2016. Biosorption of zinc (II) from aqueous solutions by nonliving lichen biomass of *Xanthoria parietina* (L.) Th. Fr. *Environmental Engineering and Management Journal* 15(12): 2733–2740.
- Bohdan, A. 2014. The importance of passive protection to preservation of lichens - relics of the primeval forests in the Białowieża Forest [Znaczenie ochrony biernej dla zachowania porostów - reliktyw lasów pochodzenia pierwotnego w Puszczy Białowieskiej]. *Przegląd Przyrodniczy* 25(4): 151–161.
- Bolshunova, T. S., L. P. Rikhvanov, A. M. Mezhibor, N. V. Baranovskaya & D. V. Yusupov. 2017. Biogeochemical features of epiphytic lichens from the area of the tailing of a gold-polymetallic deposit (Kemerovo region, Russia) comparative to a reference area. *International Multidisciplinary Scientific Geo-Conference Surveying Geology and Mining Ecology Management, SGEM* 17(51): 165–172.
- Bondarenko, P. V., L. T. B. Nguyet, S. E. Zhuravleva & E. M. Trukhan. 2017. EPR spectroscopy in environmental lichen-indication. *Journal of Applied Spectroscopy* 84(4): 646–649.
- Bouda, F. 2017. A new species of yellow *Rhizocarpon* in the Czech Republic [Nové druhy žluté skupiny rodu *Rhizocarpon* v České Republice]. *Bryonora* 59: 24–29. [In Czech with English abstract.]
- Bowering, R., R. Wigle, T. Padgett, B. Adams, D. Cote & Y. F. Wiersma. 2018[2017]. Searching for rare species: A comparison of Floristic Habitat Sampling and Adaptive Cluster Sampling for detecting and estimating abundance. *Forest Ecology and Management* 407: 1–8.
- Bowker, M. A., A. J. Antoninka & R. A. Durham. 2017. Applying community ecological theory to maximize productivity of cultivated biocrusts. *Ecological Applications* 27(6): 1958–1969.
- Brodo, I. M. & B. McCune. 2017. *Ochrolechia brodoi*, a new lichen for North America from Alaska, with updates to the key of corticolous North American species. *Evansia* 34(3): 110–113.
- Cáceres, M. E. S., M. N. Júnior, L. A. Santos, T. A. Pereira & A. Aptroot. 2017. New records to Brazil and Southern Hemisphere of corticolous and saxicolous lichens from the semiarid region in Ceará State [Novos registros para o Brasil e Hemifério Sul de líquens corticícolas e saxícolas da região semiárida no estado do Ceará]. *Iheringia, Série Botânica* 27(2): 239–245.

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- Candan, M. 2017. Eight new records of lichenized and lichenicolous fungi from Turkey. *Mycotaxon* 132(3): 575–583.
- Cezanne, R., M. Eichler, F. Berger, W. von Brackel, C. Dolnik, V. John & M. Schultz. 2016. German names for lichens [Deutsche Namen für Flechten]. *Herzogia* 29(2): 745–797.
- Chowdhury, D. P., K. A. Solhaug & Y. Gauslaa. 2016. Ultraviolet radiation reduces lichen growth rates. *Symbiosis* 73: 27–34.
- Colesie, C., L. Williams & B. Büdel. 2017. Water relations in the soil crust lichen *Psora decipiens* are optimized via anatomical variability. *Lichenologist* 49(5): 483–492.
- Coppins, B. J. 2017. [Review] Nimis, P. L. 2016. The Lichens of Italy. A Second Annotated Checklist. EUT – Edizioni Università di Trieste, Trieste, Italy. *Lichenologist* 49(5): 545.
- Czarnota, P. 2016. [Abstract] The influence of land-use changes on epiphytic lichen biota in the Carpathian oak wood-pastures. Page 200. In: E. Szczuka, G. Szymczak, M. Śmigala & R. Marciniak (eds.), *Botanika: Tradycja i nowoczesność: Strzeszenia referatów i plakatów*. Oddział Lubelski Polskie Towarzystwo Botaniczne, Lublin.
- Dal Forno, M., F. Bungartz, A. Yáñez-Ayabaca, R. Lücking & J. D. Lawrey. 2017. High levels of endemism among Galapagos basidiolichens. *Fungal Diversity* 85(1): 45–73. [New (all from Ecuador): *Cora galapagoensis* Dal-Forno, Bungartz & Lücking, *Cyphellostereum galapagoense* (Yáñez, Dal Forno & Bungartz) Dal-Forno, Bungartz & Lücking (≡ *Dictyonema galapagoense* Yáñez, Dal Forno & Bungartz), *Cy. unoquinoum* Dal-Forno, Bungartz & Lücking, *Dictyonema barbatum* Dal-Forno, Bungartz & Lücking, *D. darwinianum* Dal-Forno, Bungartz & Lücking, *D. ramificans* Dal-Forno, Yáñez-Ayabaca & Lücking, *D. subobscuratum* Dal-Forno, Bungartz & Lücking.]
- Dal Grande, F., G. Rolshausen, P. K. Divakar, A. Crespo, J. Otto, M. Schleuning & I. Schmitt. 2018[2017]. Environment and host identity structure communities of green algal symbionts in lichens. *New Phytologist* 217(1): 277–289.
- Darienko, T. & T. Pröschold. 2017. Toward a monograph of non-marine Ulvophyceae using an integrative approach (Molecular phylogeny and systematics of terrestrial Ulvophyceae II.). *Phytotaxa* 324(1): 1–41.
- Davydov, E. A. & L. S. Yakovchenko. 2017. *Rhizocarpon smaragdulum*, a new monosporic yellow-thalline species and some additional species of the genus *Rhizocarpon* from the Altai Mountains (Siberia). *Lichenologist* 49(5): 457–466. [New: *R. smaragdulum* Davydov & Yakovchenko (from Russia).]
- Demková, L., B. Baranová, J. Oboňa, J. Árvay & T. Lošák. 2017. Assessment of air pollution by toxic elements on petrol stations using moss and lichen bag technique. *Plant, Soil and Environment* 63(8): 355–361.
- Divakar, P. K., A. Crespo, E. Kraichak, S. D. Leavitt, G. Singh, I. Schmitt & H. T. Lumbsch. 2017. Using a temporal phylogenetic method to harmonize family- and genus-level classification in the largest clade of lichen-forming fungi. *Fungal Diversity* 84: 101–114. [New: *Austromelanelixia* Divakar, Crespo & Lumbsch (type *Au. piliferella*), *Au. calva* (Essl.) Divakar, Crespo & Lumbsch (≡ *Parmelia calva* Essl.), *Au. fuscosorediata* (Essl.) Divakar, Crespo & Lumbsch (≡ *Pa. fuscosorediata* Essl.), *Au. glabratuloides* (Essl.) Divakar, Crespo & Lumbsch (≡ *Pa. glabratuloides* Essl.), *Au. piliferella* (Essl.) Divakar, Crespo & Lumbsch (≡ *Pa. piliferella* Essl.), *Au. subglabra* (Räs.) Divakar, Crespo & Lumbsch (≡ *Pa. subaurifera* var. *subglabra* Räs.), *Cetraria corrugata* (R.F.Wang, X.L.Wei & J.C.Wei) Divakar, Crespo & Lumbsch (≡ *Allocetraria corrugata* R.F.Wang, X.L.Wei & J.C.Wei), *Cetraria endochrysea* (Lyngé) Divakar, Crespo & Lumbsch (≡ *Dactylina endochrysea* Lyngé), *Cetraria flavonigrescens* (A.Thell & Randlane) Divakar, Crespo & Lumbsch (≡ *Al. flavonigrescens* A.Thell & Randlane), *Cetraria isidiigera* (Kurok. & M.J.Lai) Divakar, Crespo & Lumbsch (≡ *Al. isidiigera* Kurok. & M.J.Lai), *Cetraria laii* Divakar, Crespo & Lumbsch (≡ *Evernia stracheyi* C.Bab.), *Cetraria sinensis* (X.Q.Gao) Divakar, Crespo & Lumbsch (≡ *Al. sinensis* X.Q.Gao), *Cetraria wangii* Divakar, Crespo & Lumbsch (≡ *Al. yunnanensis* R.F.Wang, L.S.Wang & J.C. Wei non *C. yunnanensis* (Nyl.) Zahlbr.), *Cetraria weii* Divakar, Crespo & Lumbsch (≡ *Al. capitata* R.F.Wang, L.S.Wang & J.C.Wei non *C. capitata* Lyngé), *Maronina badiola* (Müll. Arg.) Divakar, Crespo & Lumbsch (≡ *Lecanora badiola* Müll. Arg.), *M. capitata* (Lendemé) Divakar, Crespo & Lumbsch (≡ *Protoparmelia capitata* Lendemé), *M. corallifera* (Kantvilas & Papong) Divakar, Crespo & Lumbsch (≡ *M. orientalis* var. *corallifera* Kantvilas & Papong), *M. isidiata* (Diederich, Aptroot & Sérus.) Divakar, Crespo & Lumbsch (≡ *Pr. isidiata* Diederich, Aptroot & Sérus.), *M. microspora* (Córdova-Chávez, Aptroot & Cáceres) Divakar, Crespo & Lumbsch (≡ *Pr. microspora* Córdova-Chávez, Aptroot & Cáceres), *M. pulchra* (Diederich, Aptroot & Sérus.) Divakar, Crespo & Lumbsch (≡ *Pr. pulchra* Diederich, Aptroot & Sérus.), *Nephromopsis americana* (Spreng.) Divakar, Crespo & Lumbsch (≡ *Nephroma americana* Spreng.), *Nephromopsis andrejevii* (Oxner) Divakar, Crespo & Lumbsch (≡ *Cetraria andrejevii* Oxner), *Nephromopsis arizonica* (Essl.) Divakar, Crespo & Lumbsch (≡ *Tuckermanella arizonica* Essl.), *Nephromopsis aurescens* (Tuck.) Divakar, Crespo & Lumbsch (≡ *Cetraria aurescens* Tuck.), *Nephromopsis chlorophylla* (Willd.) Divakar, Crespo & Lumbsch (≡ *Lichen chlorophyllus* Willd.), *Nephromopsis coralligera* (W.A.Weber) Divakar, Crespo & Lumbsch (≡ *Cetraria fendleri* f. *coralligera* W.A.Weber), *Nephromopsis culbersonii* (Hale) Divakar, Crespo & Lumbsch (≡ *Cetraria culbersonii* Hale), *Nephromopsis cucullata* (Bellardi) Divakar, Crespo & Lumbsch (≡ *Lichen cucullatus* Bellardi), *Nephromopsis fendleri* (Nyl.) Divakar, Crespo & Lumbsch (≡ *Platysma fendleri* Nyl.), *Nephromopsis gilva* (Asahina) Divakar, Crespo & Lumbsch (≡ *Cetraria gilva* Asahina), *Nephromopsis iberica* (Crespo & Barreno) Divakar, Crespo & Lumbsch (≡ *Cetraria iberica* Crespo & Barreno), *Nephromopsis inermis* (Nyl.) Divakar, Crespo & Lumbsch (≡ *Cetraria crispa* f. *inermis* Nyl.), *Nephromopsis laeteflava* (Zahlbr.) Divakar, Crespo & Lumbsch (≡ *Cetraria laeteflava* Zahlbr.), *Nephromopsis merrillii* (Du Rietz) Divakar, Crespo & Lumbsch (≡ *Cetraria merrillii* Du Rietz), *Nephromopsis microphyllica* (W.L.Culb. & C.F.Culb.) Divakar, Crespo & Lumbsch (≡ *Cetraria microphyllica* W.L.Culb. & C.F.Culb.), *Nephromopsis nigricascens* (Nyl.) Divakar, Crespo & Lumbsch (≡ *Platysma nigricascens* Nyl.), *Nephromopsis nivalis* (L.) Divakar, Crespo & Lumbsch (≡ *Lichen nivalis* L.), *Nephromopsis orbata* (Nyl.) Divakar, Crespo & Lumbsch (≡ *Platysma orbatum* Nyl.), *Nephromopsis papuae* (Randlane & Saag) Divakar, Crespo & Lumbsch (≡ *Cetrellopsis papuae* Randlane & Saag), *Nephromopsis pseudoweberi* (Essl.) Divakar, Crespo & Lumbsch (≡ *Tuckermanella pseudoweberi* Essl.), *Nephromopsis rickiae* (Essl.) Divakar, Crespo & Lumbsch (≡ *Tuckermanella rickiae* Essl.), *Nephromopsis richardsonii* (Hook.) Divakar, Crespo & Lumbsch (≡ *Cetraria richardsonii* Hook.), *Nephromopsis sphaerosporella* (Müll. Arg.) Divakar, Crespo & Lumbsch (≡ *Pa. sphaerosporella* Müll. Arg.), *Nephromopsis subalpina* (Imshaug) Divakar, Crespo & Lumbsch (≡ *Cetraria subalpina* Imshaug), *Nephromopsis subfendleri* (Essl.) Divakar, Crespo & Lumbsch (≡ *Cetraria subfendleri* Essl.), *Nephromopsis thailandica* (Elix & M.J.Lai) Divakar, Crespo & Lumbsch (≡ *Cetrellopsis thailandica* Elix & M.J. Lai), *Nephromopsis tuckermanii* (Tuck.) Divakar, Crespo & Lumbsch (≡ *Cetraria*

- californica* Tuck. non *Nephromopsis californica* Gyeln.), *Nephromopsis ulophylloides* (Asahina) Divakar, Crespo & Lumbsch (≡ *Cetraria ulophylloides* Asahina), *Nephromopsis weberi* (Essl.) Divakar, Crespo & Lumbsch (≡ *Cetraria weberi* Essl.), *Protousnea huuskonenii* (Räsänen) Divakar, Crespo & Lumbsch (≡ *Phacopsis huuskonenii* Räsänen), *Punctelia oxyspora* (Tul.) Divakar, Crespo, D.L.Hawksw. & Lumbsch (≡ *Abrothallus oxysporus* Tul.), Protopermarioideae Divakar, Crespo & Lumbsch (type Pr.M. Choisy), *Allocetraria* Kurok. & M.J.Lai, *Cetrariella* Kärnefelt & A.Thell, *Usnocetraria* M.J.Lai & J.C.Weil and *Vulpicida* J.E.Mattsson & M.J.Lai placed in synonymy with *Cetraria* Ach. *Ahtiana* Goward, *Arctocetraria* Kärnefelt & A.Thell, *Cetrariopsis* Kurok., *Cetrelia* M.J.Lai, *Flavocetrariella* Awasthi, *Kaernefeltia* A.Thell & Goward, *Masonhalea* Kärnefelt, *Tuckermanella* Essl., *Tuckermannopsis* Gyeln., *Tuckneraria* Randlane & A.Thell placed in synonymy with *Nephromopsis* Müll. Arg. *Nesolechia* A.Massal. placed in synonymy with *Punctelia* Krog. *Raesaenenia* D.Hawksw. placed in synonymy with *Protousnea* (Motyka) Krog.]
- Dorr, L. 1997. Plant collectors in Madagascar and the Comoro Islands. A biographical and bibliographical guide to individuals and groups who have collected herbarium material of algae, bryophytes, fungi, lichens, and vascular plants in Madagascar and the Comoro Islands. National Museum of Natural History, Smithsonian Institution, Washington, D.C. xlvii, 524 pages.
- Duan, F., G. Xin, H. Niu & W. Huang. 2017. Chlorinated emodin as a natural antibacterial agent against drug-resistant bacteria through dual influence on bacterial cell membranes and DNA. *Scientific Reports* 7: 12721.
- Ekanayaka, A. H., H. A. Ariyawansa, K. D. Hyde, E. B. G. Jones, D. A. Daranagama, A. J. L. Phillips, S. Hongsanan, S. C. Jayasiri & Q. Zhao. 2017. DISCOMYCETES: the apothecial representatives of the phylum Ascomycota. *Fungal Diversity*: 10.1007/s13225-017-0389-x.
- Elorza, J. & R. Higuera-Ruiz. 2016. Mechanical abrasion (ventifacts, aquafacts) on the Urganian limestones-dolostones of the eastern Cantabrian coast: An approach to their ages. *Revista de la Sociedad Geologica de Espana* 29(2): 3–22. [Study involves lichenometry with *Verrucaria* sp.]
- Ertz, D., R. S. Poulsen, M. Charrier & U. Søchting. 2017. Taxonomy and phylogeny of the genus *Steinera* (Arctomiales, Arctomiaceae) in the subantarctic islands of Crozet and Kerguelen. *Phytotaxa* 324(3): 201–238. [New (all new species from French Southern and Antarctic Lands): *Arctomia insigna* (P.M.Jørg. & Tønsberg) Ertz (≡ *Leptogium insigne* P.M.Jørg. & Tønsberg), *Henssenia* Ertz, R.S.Poulsen & Søchting (type *H. glaucella*), *H. glaucella* (Tuck.) Ertz, R.S.Poulsen & Søchting (≡ *Pannaria glaucella* Tuck.), *H. radiata* (P. James & Henssen) Ertz (≡ *S. radiata* P.James & Henssen), *H. subglaucella* Ertz & R.S.Poulsen, *H. werthii* (Zahlbr.) Ertz, R.S.Poulsen & Søchting (≡ *S. werthii* Zahlbr.), *S. intricata* (Øvstedal) Ertz (≡ *Massalongia intricata* Øvstedal), *S. isidiata* Ertz & R.S.Poulsen, *S. latispora* (Øvstedal) Ertz (≡ *A. latispora* Øvstedal), *S. lebouvieri* Ertz, *S. membranacea* Ertz & R.S.Poulsen, *S. pannarioides* Ertz & R.S.Poulsen, *S. subantarctica* (Øvstedal) Ertz (≡ *A. subantarctica* Øvstedal)]
- Esseen, P.-A., M. Rönnqvist, Y. Gauslaa & D. S. Coxson. 2017. Externally held water: A key factor for hair lichens in boreal forest canopies. *Fungal Ecology* 30: 29–38.
- Esslinger, T. L., B. McCune & D. L. Haughland. 2017. *Physconia labrata*, a new species from western North America and Asia. *The Bryologist* 120(4): 427–434. [New: *P. labrata* Essl., McCune & Haughland (from Canada, China, India, Nepal, Russia and U.S.A.).]
- Faltynowicz, W. & L. Śliwa. 2017. The Polish lichenological bibliography for 1982–2016 [Polska bibliografia lichenologiczna za lata 1982-2016]. *Botanical Bibliographies [Bibliografie Botaniczne]* 8: 1–317. [Introduction and table of contents in English, main text in Polish.]
- Feng, J., D. Rogge & B. Rivard. 2018[2017]. Comparison of lithological mapping results from airborne hyperspectral VNIR-SWIR, LWIR and combined data. *International Journal of Applied Earth Observation and Geoinformation* 64: 340–353.
- Ferencova, Z., V. J. Rico & D. L. Hawksworth. 2017. Extraction of DNA from lichen-forming and lichenicolous fungi: A low-cost fast protocol using Chelex. *Lichenologist* 49(5): 521–525.
- Firdous, S. S., S. Naz, H. Shaheen & M. E. U. I. Dar. 2017. Lichens as bioindicators of air pollution from vehicular emissions in district Poonch, Azad Jammu and Kashmir, Pakistan. *Pakistan Journal of Botany* 49(5): 1801–1810.
- Fischer, E., D. Killmann, D. Ertz & E. Sérusiaux. 2017. Erratum to: *Heterodermia pindurae* (Physciaceae)—a new foliose lichen from Rwanda. *Phytotaxa* 319(2): 200. [New: *H. pindurae* Eb.Fisch, Killmann, Ertz & Sérus. (from Rwanda).]
- Frisch, A., G. Thor & D. Sheil. 2014. Four new Arthoniomycetes from Bwindi Impenetrable National Park, Uganda – supported by molecular data. *Nova Hedwigia* 98(3–4): 295–312. [New (all new species from Uganda): *Arthonia physcidiicola* Frisch & G.Thor (on *Physcidia wrightii*), *Chiodecton sorediatum* G.Thor & Frisch, *Herpothallon kigeziense* Frisch & G.Thor, *Reichlingia syncesoides* Frisch & G.Thor, *R. virginea* (Müll.Arg.) Frisch (≡ *Arthothelium virgineum* Müll.Arg.), *R. zwackhii* (Sandst.) Frisch & G.Thor (≡ *Arthonia zwackhii* Sandst.).]
- Frisch, A., G. Thor, K. Moon & Y. Ohmura. 2017. *Arthonia incarnata* (Arthoniaceae), a rare and poorly known old-growth forest lichen new to Asia. *Nordic Journal of Botany* 35(5): 587–594.
- García, R. A. & V. G. Rosato. 2017. Observations of the development of *Xanthoria farinosa* under optical and electron microscopy. *Mycology*: 10.1080/21501203.2017.1367333.
- García-Rodríguez, M., A. Sánchez-Jiménez, A. Murciano, B. Pérez-Uz & M. Martín-Cereceda. 2017. Influencia de la temperatura sobre la asimetría de pilancones en ambiente granítico: Aplicación de un modelo de regresión lineal. *Boletín de la Sociedad Geologica Mexicana* 69(2): 479–494.
- Garrido-Benavent, I., A. de los Ríos, F. Fernández-Mendoza & S. Pérez-Ortega. 2017. No need for stepping stones: Direct, joint dispersal of the lichen-forming fungus *Mastodia tessellata* (Ascomycota) and its photobiont explains their bipolar distribution. *Journal of Biogeography*: 10.1111/jbi.13105.
- Gholipour-Shahraki, M. & P. Mohammadi. 2017. The study of growth of *Calogaya* sp. PLM8 on Cyrus the Great's Tomb, UNESCO World Heritage Site in Iran. *International Journal of Environmental Research* 11(4): 501–513.
- Girard, F., S. Payette & A. Delwaide. 2017. Patterns of early postfire succession of alpine, subalpine and lichen-woodland vegetation: 21 years of monitoring from permanent plots. *Forests* 8: 346.
- Gromakova, A. B. & S. Y. Kondratyuk. 2017. *Involucropyrenium breussii* (Verrucariaceae, lichen-forming Ascomycota), a new lichen species from chalk soil of Eastern Ukrainian steppes. *Acta Botanica Hungarica* 59(3–4): 335–342. [New: *I. breussii* A.B.Gromakova & S.Y.Kondr. (from Ukraine).]
- Hagedorn, G., G. Rambold & S. Martellos. 2010. Tools for identifying biodiversity: Progress and problems. In: P. L. Nimis & R. Vignes Lebbe (eds.), *Proceedings of the International Congress, Paris, September 20–22, 2010*. Trieste, EUT Edizioni Università di Trieste.

- Haji Moniri, M., A. B. Gromakova, L. Lökös & S. Y. Kondratyuk. 2017. New members of the Megasporaceae (Pertusariales, lichen-forming Ascomycota): *Megaspora iranica* spec. nova and *Oxneriaria* gen. nova. *Acta Botanica Hungarica* 59(3–4): 343–370. [New: *M. iranica* M. Haji Moniri & S.Y.Kondr. (from Iran), *Oxneriaria* S.Y.Kondr. & L.Lökös (type *O. mashiginensis*), *O. dendroplaca* (H.Magn.) S.Y.Kondr. & L.Lökös (≡ *Lecanora dendroplaca* H.Magn.), *O. haeyrenii* (H.Magn.) S.Y.Kondr. & L.Lökös (≡ *L. haeyrenii* H.Magn.), *O. mashiginensis* (Zahlbr.) S.Y.Kondr. & L.Lökös (≡ *L. mashiginensis* Zahlbr.), *O. nikrapensis* (Darb.) S.Y.Kondr. & L.Lökös (≡ *Aspicilia nikrapensis* Darb.), *O. permutata* (Zahlbr.) S.Y.Kondr. & L.Lökös (≡ *L. permutata* Zahlbr.), *O. rivulicola* (H.Magn.) S.Y.Kondr. & L.Lökös (≡ *L. rivulicola* H.Magn.), *O. supertegens* (Arnold) S.Y.Kondr. & L.Lökös (≡ *A. supertegens* Arnold), *O. verruculosa* (Kremp.) S.Y.Kondr. & L.Lökös (≡ *A. verruculosa* Kremp.), *O. virginea* (Hue) S.Y.Kondr. & L.Lökös (≡ *A. virginea* Hue).]
- Halda, J. 2016. Lišejníky, úvodní část. Pages 156–414. In: J. Halda, J. Kučera & S. Koval (eds.), *Atlas krkonošských mechorostů, lišejníků a hub. Správa Krkonošského národního parku, Vrchlabí*. [In Czech.]
- Halda, J. P., J. Kocourková, V. Lenzová, J. Malíček, A. Müller, Z. Palice, P. Uhlík & J. Vondrák. 2017. Lichens recorded during the 22th spring meeting of the Bryological and lichenological section of the CBS in the Moravian Karst (Czech Republic), April 2015 [Lišejníky zaznamenané během 22. jarního setkání bryologicko-lichenologické sekce ČBS v Moravském krasu v dubnu 2015]. *Bryonora* 59: 1–23. [In Czech with English abstract.]
- Halıcı, M. G., J. Vondrák, R. Demirel, A. Ceylan & M. Candan. 2014. Teloschistaceae (lichenized Ascomycetes) in Turkey II. – Some poorly known taxa. Supported by molecular data. *Nova Hedwigia* 98(3–4): 449–458.
- Harada, H., A. Sakata, H. Izumi & H. Yoshikawa. 2017. Lichens of University of Tokyo Chiba Forest, Chiba-ken, central Japan. *Journal of the Natural History Museum and Institute, Chiba special issue* 10: xii–lii, 369–392. [In Japanese with English summary. Numerous color photographs.]
- Hawksworth, D. L. & R. Lücking. 2017. Fungal diversity revisited: 2.2 to 3.8 million species. *Microbiology Spectrum* 5(4): FUNK-0052–2016.
- Hawksworth, D. L. 2017. [Review] Herrera-Campos, M., R. E. Pérez-Pérez & T. H. Nash III. Lichens of Mexico. The Parmeliaceae – Keys, Distribution and Specimen Descriptions. *Bibliotheca Lichenologica* 110: i–vi, 1–723. *Lichenologist* 49(5): 545–546.
- Ignatenko, R. V. & V. N. Tarasova. 2017. The population structure of the lichen *Lobaria pulmonaria* in the middle boreal forests depends on the time-since-disturbance. *Folia Cryptogamica Estonica* 54: 83–94.
- Jia, R., J. Teng, M. Chen, Y. Zhao & Y. Gao. 2018[2017]. The differential effects of sand burial on CO₂, CH₄, and N₂O fluxes from desert biocrust-covered soils in the Tengger Desert, China. *CATENA* 160: 252–260.
- Jokela, J., K. Juutilainen, L. Korpela, J. Kouki, S. Kuntsi, M. Koivula & J. Siitonen. 2018[2017]. Cross-taxon congruence and relationships to stand characteristics of vascular plants, bryophytes, polyporous fungi and beetles in mature managed boreal forests. *Ecological Indicators* 85: 137–145.
- Joneson, S. & H. O'Brien. 2017. A molecular investigation of free-living and lichenized *Nostoc* sp. and symbiotic lifestyle determination. *The Bryologist* 120(4): 371–381.
- Juutinen, S., T. Virtanen, V. Kondratyev, T. Laurila, M. Linkosalmi, J. Mikola, J. Nyman, A. Räsänen, J.-P. Tuovinen & M. Aurela. 2017. Spatial variation and seasonal dynamics of leaf-Area index in the arctic tundra-implications for linking ground observations and satellite images. *Environmental Research Letters* 12(9): 095002.
- Jüriado, I., U. Kaasalainen & J. Rikkinen. 2017. Specialist taxa restricted to threatened habitats contribute significantly to the regional diversity of *Peltigera* (Lecanoromycetes, Ascomycota) in Estonia. *Fungal Ecology* 30: 76–87.
- Kaczmarek, L., I. Parnikoza, M. Gawlak, J. Esefeld, H.-U. Peter, I. Kozeretska & M. Roszkowska. 2017. Tardigrades from *Larus dominicanus* Lichtenstein, 1823 nests on the Argentine Islands (maritime Antarctic). *Polar Biology*: 10.1007/s00300-017-2190-4. [Samples were derived from nests made of bryophytes and lichens.]
- Kadulin, M. S., I. E. Smirnova & G. N. Koptsyk. 2017. The emission of carbon dioxide from soils of the Pasvik nature reserve in the Kola Subarctic. *Eurasian Soil Science* 50(9): 1055–1068. [Translated from: M. S. Kadulin, I. E. Smirnova & G. N. Koptsyk. 2017. *Pochvovedenie*, 2017(9): 1098–1112.]
- Kalb, K. & Z.-F. Jia. 2014. New species of Graphidaceae from Zhejiang Province, China. *Phytotaxa* 189(1): 147–152. [New (from China): *Fissurina baishanzuensis* Kalb & Z.F.Jia, *F. subundulata* Kalb & Z.F.Jia, *Graphis jinhuana* Kalb & Z.F.Jia, *G. pananensis* Kalb & Z.F.Jia.]
- Khairuddin, N. A., N. Muhammad, N. H. Hasmin, H. Yusof, S. Jusoh, A. Abas, B. A. Talip, N. Abdullah & L. B. Din. 2017. Identification of most tolerant lichen species to vehicular traffic's pollutants at Batu Pahat area. *AIP Conference Proceedings* 1891: 020078.
- Kikuchi, J. & S. Yamada. 2017. NMR window of molecular complexity showing homeostasis in superorganisms. *Analyst* 142: 4161–4172.
- Kirika, P. M., P. K. Divakar, K. Buaruang, S. D. Leavitt, A. Crespo, G. W. Gatheri, G. Mugambi, M. N. Benatti & H. T. Lumbsch. 2017. Molecular phylogenetic studies unmask overlooked diversity in the tropical lichenized fungal genus *Bulbothrix* s.l. (Parmeliaceae, Ascomycota). *Botanical Journal of the Linnean Society* 184(3): 387–399. [New: *B. kenyana* Kirika, Divakar & Lumbsch (from Kenya), *B. sublaevigatoides* (C.W.Dodge) Kirika, Divakar & Lumbsch (≡ *Parmelia sublaevigatoides* C.W.Dodge).]
- Knudsen, K. & J. Kocourková. 2017. *Acarospora toensbergii* (Acarosporaceae), a new species from Alaska, U.S.A. *Opuscula Philolichenum* 16: 317–321. [New: *A. toensbergii* K.Knudsen & Kocourk. (from U.S.A.).]
- Knudsen, K., J. Kocourková & J. C. Lendemer. 2017. *Acarospora smaragdula* var. *lesdainii* forma *fulvoviridula* is a synonym of *Myriospora scabrida*. *Opuscula Philolichenum* 16: 312–316. [Lectotypified: *A. smaragdula* var. *lesdainii* forma *fulvoviridula* Harm. ex H. Magn.]
- Kondratyuk, S. Y., A. B. Gromakova, A. Y. Khodosovtsev, J. A. Kim, A. S. Kondratiuk & J.-S. Hur. 2015. *Agrestia zerovii* (Megasporaceae, lichen-forming Ascomycetes), a new species from southeastern Europe proved by alternative phylogenetic analysis. *Studia Botanica Hungarica* 46(2): 69–94. [New: *Agrestia zerovii* S.Y.Kondr., A.B.Gromakova & Khodos., *Chlorangium alpicola* (Elenkin) S.Y.Kondr., A.B.Gromakova & Khodos. (≡ *Aspicilia alpicola* Elenkin), *C. schabadense* (J.Steiner) S.Y.Kondr., A.B.Gromakova & Khodos. (≡ *Lecanora esculenta* subsp. *aschabadensis* J. Steiner), *C. asperum* (Mereschk.) S.Y.Kondr., A.B.Gromakova & Khodos. (≡ *Aspicilia desertorum* var. *aspera* Mereschk.), *C. gyrosium* (Sohrabi, Sipman, V.John & V.J.Rico) S.Y.Kondr., A.B.Gromakova & Khodos. (≡ *Circinaria gyrosa* Sohrabi, Sipman, V.John & V.J.Rico), *C. sphaerothallinum*

- (J.Steiner) S.Y.Kondr., A.B.Gromakova & Khodos. (≡ *Aspicilia calcarea* var. *sphaerothallina* J.Steiner).]
- Kraichak, E., A. Crespo, P. K. Divakar, S. D. Leavitt & H. T. Lumbsch. 2017. A temporal banding approach for consistent taxonomic ranking above the species level. *Scientific Reports* 7: 2297.
- Kubiak, D., A. Biedunkiewicz & A. Balczun. 2017. Diversity of lichens in forest communities of the “Pupy” Nature Reserve in the puszcza piska forest (NE Poland). *Polish Journal of Natural Sciences* 32(2): 297–310.
- Kulichevskaya, I. S., A. A. Ivanova, E. N. Detkova, W. I. C. Rijnstra, J. S. Sinninghe Damsté & S. N. Dedysh. 2017. *Tundrisphaera lichenicola* gen. nov., sp. nov., a psychrotolerant representative of the family isosphaeraceae from lichen-dominated tundra soils. *International Journal of Systematic and Evolutionary Microbiology* 69(7): 3583–3589.
- Kulkarni, A. N., A. D. Watharkar, N. R. Rane, B.-H. Jeon & S. P. Govindwar. 2018[2017]. Decolorization and detoxification of dye mixture and textile effluent by lichen *Dermatocarpon velleereceum* in fixed bed upflow bioreactor with subsequent oxidative stress study. *Ecotoxicology and Environmental Safety* 148: 17–25.
- Lagostina, E., M. Andreev & C. Printzen. 2017. [Poster] Sexuality, clonality and dispersal in two Antarctic lichens. Frankfurt am Main, Conference: Geobiodiversity: 10.13140/RG.2.2.29019.05929.
- Lagostina, E., F. Dal Grande, S. Ott & C. Printzen. 2017. Fungus-specific SSR markers in the Antarctic lichens *Usnea antarctica* and *U. aurantiacoatra* (Parmeliaceae, Ascomycota). *Applications in Plant Sciences* 5(9): 1700054.
- Läufer, A. L., F. Lisker & G. Phillips. 2010. Late orogenic deformation of basement rocks in the northern deep freeze range, Victoria Land, Antarctica: The Lichen Hills shear zone. *Polarforschung* 80(2): 60–70.
- Le Pogam, P., A. Pillot, F. Lohezic-Le Devehat, A.-C. Le Lamer, B. Legouin, A. Gadea, A. Sauvager, D. Ertz & J. Boustie. 2017. Mass spectrometry as a versatile ancillary technique for the rapid in situ identification of lichen metabolites directly from TLC plates. *Lichenologist* 49(5): 507–520.
- Lendemer, J. C. & R. C. Harris. 2015. A nomenclatural note on *Mycoporum biseptatum* (basionym *Arthonia biseptata*). *Opuscula Philolichenum* 14: 116–117.
- Lendemer, J. C., H. B. Stone & E. A. Tripp. 2017. Taxonomic delimitation of the rare, eastern North American endemic lichen *Santessoniella crossophylla* (Pannariaceae). *Journal of the Torrey Botanical Society* 144(4): 459–468. [New: *Rockefelleria* Lendemer & E.Tripp (type *R. crossophylla*), *R. crossophylla* (Tuck.) Lendemer & E.Tripp (≡ *Pannaria crossophylla* Tuck.).]
- Li, X. R., G. Song, R. Hui & Z. R. Wang. 2017. Precipitation and topsoil attributes determine the species diversity and distribution patterns of crustal communities in desert ecosystems. *Plant and Soil*: 10.1007/s11104-017-3385-8.
- Longinotti, S., K. A. Solhaug & Y. Gauslaa. 2017. Hydration traits in cephalolichen members of the epiphytic old forest genus *Lobaria* (s. lat.). *Lichenologist* 49(5): 493–506.
- Lord, J. M., A. F. Mark, T. Humar-Maegli, S. R. P. Halloy, P. Bannister, A. Knight & K. J. M. Dickinson. 2017. Slow community responses but rapid species responses 14 years after alpine turf transplantation among snow cover zones, south-central New Zealand. *Perspectives in Plant Ecology, Evolution and Systematics*: 10.1016/j.ppees.2017.07.004.
- Lü, L. & Z.-T. Zhao. 2017. *Lecanora subloekoesii* sp. nov. and four other species of the *L. subfusca* group new to China. *Mycotaxon* 132(3): 539–546. [New (from China): *L. subloekoesii* Z.T.Zhao & L.Lü.]
- Lücking, R. 2014. Three new species of thelotremoid Graphidaceae from tropical Africa. *Phytotaxa* 189(1): 176–179. [New: *Astrochapsa fusca* Lücking (from Sierra Leone), *Ocellularia abbayesiana* Lücking (from Sierra Leone), *O. grantii* Lücking (from Nigeria).]
- Lücking, R., M. K. Johnston, A. Aptroot, E. Kraichak, J. C. Lendemer, K. Boonpragob, M. E. S. Cáceres, D. Ertz, L. I. Ferraro, Z.-F. Jia, K. Kalb, A. Mangold, L. Manoch, J. A. Mercado-Díaz, B. Moncada, P. Mongkolsuk, K. Papong, S. Parnmen, R. Peláez, V. Poengsunnoen, E. Rivas Plata, W. Saipunkaew, H. J. M. Sipman, J. Suttjaritturakan, D. van den Broeck, M. von Konrat, G. Weerakoon & H. T. Lumbsch. 2014. One hundred and seventy-five new species of Graphidaceae: closing the gap or a drop in the bucket? *Phytotaxa* 189(1): 7–38.
- Lücking, R., R. G. Thorn, I. Saar, M. D. Piercey-Normore, B. Moncada, J. Doering, H. Mann, R. Lebeuf, M. Voitk & A. Voitk. 2017. A hidden basidiolichen rediscovered: *Omphalina oreades* is a separate species in the genus *Lichenomphalia* (Basidiomycota: Agaricales: Hygrophoraceae). *Lichenologist* 49(5): 467–481. [New: *L. oreades* (Singer) Voitk, Thorn & I.Saar (≡ *O. oreades* Singer).]
- Machacova, K., M. Maier, K. Svobodova, F. Lang & O. Urban. 2017. Cryptogamic stem covers may contribute to nitrous oxide consumption by mature beech trees. *Scientific Reports* 7: 13243.
- Mafole, T. C., C. Chiang, K. A. Solhaug & R. P. Beckett. 2017. Melanisation in the old forest lichen *Lobaria pulmonaria* reduces the efficiency of photosynthesis. *Fungal Ecology* 29: 103–110.
- Malíček, J. 2017. Lichens of the protected area Kaňk near Kutná Hora [Lišejníky NPP Kaňk u Kutné Hory]. *Bryonora* 59: 30–36. [In Czech with English abstract.]
- Malíček, J., F. Berger, Z. Palice & J. Vondrák. 2017. Corticolous sorediate *Lecanora* species (Lecanoraceae, Ascomycota) containing atranorin in Europe. *Lichenologist* 49(5): 431–455. [New: *L. cenisia* f. *soredians* (Suza) Malíček (≡ *L. cenisia* var. *soredians* Suza), *L. substerilis* Malíček & Vondrák (from Czech Republic, Romania, Slovakia, Ukraine).]
- Mangold, A., R. Lücking & H. T. Lumbsch. 2014. New species of graphidoid and thelotremoid Graphidaceae from Australia. *Phytotaxa* 189(1): 180–185. [New (all from Australia): *Fissurina bullata* Mangold, Lücking & Lumbsch, *Ocellularia australiana* Mangold, Lücking & Lumbsch, *Thelotrema fuscobutyle* Mangold, Lücking & Lumbsch, *T. inspersoporinaceum* Mangold, Lücking & Lumbsch.]
- Manninen, S. 2018[2017]. Deriving nitrogen critical levels and loads based on the responses of acidophytic lichen communities on boreal urban *Pinus sylvestris* trunks. *Science of The Total Environment* 613/614: 751–762.
- Mazziotta, A., J. Vizentin-Bugoni, A. P. Tøttrup, H. H. Bruun, Ö. Fritz, & J. Heilmann-Clausen. 2017. Interaction type and intimacy structure networks between forest-dwelling organisms and their host trees. *Basic and Applied Ecology* 24: 86–97.
- McCune, B., N. Ali, R. J. Hartley & W. J. Hunt. 2017. Estimating age of rock cairns in southeast Alaska by combining evidence from successional metrics, lichenometry, and carbon dating. *Arctic Science* 3: 698–715.
- McMullin, R. T. 2017. Lichen holdings at the Biodiversity Institute of Ontario Herbarium at the University of Guelph, Ontario. *Evansia* 34(3): 85–103.
- Meli, M. A., D. Desideri, C. Cantaluppi, F. Ceccotto, L. Feduzi & C. Roselli. 2018[2017]. Elemental and radiological characterization

- of commercial *Cetraria islandica* (L.) Acharius pharmaceutical and food supplementation products. *Science of the Total Environment* 613/614: 1566–1572.
- Michlig, A. & M. N. Benatti. 2017. Range extension of *Relicina subabstrusa* (Parmeliaceae, lichenized Ascomycota) in Argentina and its distribution pattern in the Neotropics. *Check List* 13(5): 461–466. [Includes key to Neotropical *Relicina*.]
- Michlig, A., E. M. S. Moreno & V. G. Solis Neffa. 2017. Phylogenetic analyses support the recent placement of *Canoparmelia scrobicularis* into *Crespoa* (Parmeliaceae, lichenized Ascomycota). *Nova Hedwigia* 105(3–4): 529–537.
- Mróz, T., K. Szufa, M. V. Frontasyeva, V. Tselmovich, T. Ostrovnaya, A. Kornaś, M. A. Olech, J. W. Mietelski & K. Brudecki. 2017. Determination of element composition and extraterrestrial material occurrence in moss and lichen samples from King George Island (Antarctica) using reactor neutron activation analysis and SEM microscopy. *Environmental Science and Pollution Research*: 10.1007/s11356-017-0431-2.
- Munzi, S., C. Cruz, R. Maia, C. Máguas, M. M. Perestrello-Ramos & C. Branquinho. 2017. Intra- and inter-specific variations in chitin in lichens along a N-deposition gradient. *Environmental Science and Pollution Research*: 10.1007/s11356-017-0378-3.
- Muscavitch, Z. M., J. C. Lendemer & R. C. Harris. 2017. A review of the lichen genus *Phlyctis* in North America (Phlyctidaceae) including the description of a new widespread saxicolous species from eastern North America. *The Bryologist* 120(4): 388–417. [New: *P. petraea* R.C.Harris, Muscavitch, Ladd & Lendemer (from Canada & U.S.A.).]
- Muscavitch, Z. M., J. C. Lendemer & R. C. Harris. 2017. A synopsis of the lichenicolous fungi occurring on *Phlyctis* including description of a new *Monodictys* widespread on *P. speirea*. *The Bryologist* 120(4): 418–426. [New: *M. phlyctidis* R.C.Harris (on *P. speirea* from Canada and U.S.A.).]
- Musharraf, S. G., F. Siddiqi, A. Ali & V. M. Thadhani. 2017. Sensitive analysis of bioactive secondary metabolites in lichen species using liquid chromatography–mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis* 146: 279–284.
- Nabozhenko, M. V., B. Keskin & S. V. Nabozhenko. 2017. Life forms and strategies of lichen-feeding darkling beetles (Coleoptera, Tenebrionidae: Helopini). *Entomological Review* 97(6): 735–746. [Translated and reprinted from *Entomologicheskoe Obozrenie* 96(3): 436–450.]
- Naksuwankul, K. & H. T. Lumbsch. 2017. Two new records of lichens of the thlotremoid Graphidaceae (Ascomycota: Ostropales) from Thailand. *Chiang Mai Journal of Science* 44(4): 1392–1394.
- Nayaka, S., D. K. Upreti & R. Bajpai. 2009. Diversity and adaptive response of lichens in Antarctica. Pages 107–123. In: K. R. Sridhar (ed.), *Frontiers in Fungal Ecology, Diversity and Metabolites*. I. K. International Publishing House Pvt. Ltd., New Delhi, India.
- Nikitin, D. A., O. E. Marfenina, A. G. Kudinova, L. V. Lysak, N. S. Mergelov, A. V. Dolgikh & A. V. Lupachev. 2017. Microbial biomass and biological activity of soils and soil-like bodies in coastal oases of Antarctica. *Eurasian Soil Science* 50(9): 1086–1097. [Translated from D.A. Nikitin, O.E. Marfenina, A.G. Kudinova, L.V. Lysak, N.S. Mergelov, A.V. Dolgikh and A.V. Lupachev. 2017. *Pochvovedenie* 2017(9) 1122–1133.]
- Nurtai, L., K. Knudsen & A. Abbas. 2017. A new species of the *Acarospora strigata* group (Acarosporaceae) from China. *The Bryologist* 120(4): 382–387. [New: *A. tianshanica* A.Abbas, L.Nurta & K. Knudsen (from China). Lectotypified: *Lecanora interrupta* Nyl. Includes key to the *A. strigosa* group.]
- Ouyang, H., S. Lan, H. Yang & C. Hu. 2017. Mechanism of biocrusts boosting and utilizing non-rainfall water in Hobq Desert of China. *Applied Soil Ecology* 120: 70–80.
- Palmqvist, K., O. Franklin & T. Näsholm. 2017. Symbiosis constraints: Strong mycobiont control limits nutrient response in lichens. *Ecology and Evolution* 7(18): 7420–7433.
- Paluszczak, J., R. Kleszcz, E. Studzińska-Sroka & V. Krajka-Kuźniak. 2017. Lichen-derived caperatic acid and physodic acid inhibit Wnt signaling in colorectal cancer cells. *Molecular and Cellular Biochemistry*: 10.1007/s11010-017-3178-7.
- Parnmen, S., S. D. Leavitt, A. Rangsiruji & H. T. Lumbsch. 2013. Identification of species in the *Cladia aggregata* group using DNA barcoding (Ascomycota: Lecanorales). *Phytotaxa* 115: 1–14. [New: *Cladia blanchonii* Parnmen & Lumbsch (from Australia, New Zealand), *Cladia cryptica* Parnmen & Lumbsch (from Australia, Malaysia, New Zealand), *Cladia gorgonea* (Eschw.) Parnmen & Lumbsch (≡ *Cladonia gorgonea* Eschw.), *Cladia neocaledonica* (Räsänen) Parnmen & Lumbsch (≡ *Cladonia neocaledonica* Räsänen), *Cladia tasmanica* Parnmen & Lumbsch (from Australia), *Cladia terebrata* (Laurer) Parnmen & Lumbsch (≡ *Cenomyce terebrata* Laurer).]
- Parrot, D., L. Intertaglia, P. Jehan, M. Grube, M. T. Suzuki & S. Tomasi. 2018[2017]. Chemical analysis of the Alphaproteobacterium strain MOLA1416 associated with the marine lichen *Lichina pygmaea*. *Phytochemistry* 145: 57–67.
- Pchelkin, A. V. 1991. Use of conjugation of flora of vascular plants and lichens for floristic zoning. *Problems of Ecological Monitoring and Ecosystem Modelling* 13: 176–188. [In Russian with English abstract.]
- Pekkarinen, A.-J., J. Kumpula & O. Tahvonen, O. 2017. Parameterization and validation of an ungulate-pasture model. *Ecology and Evolution* 7(20): 8282–8302.
- Peláez, R. N., B. Moncada & R. Lücking. 2014. High diversity of *Ocellularia* (Ascomycota: Graphidaceae) in the Colombian Llanos, including two species new to science. *Phytotaxa* 189(1): 245–254. [New (all new species from Columbia): *O. dodecamera* (Nyl.) Peláez, Moncada & Lücking (≡ *Ascidium discolor* var. *dodecamerum* Nyl.), *O. umbilicatoides* Peláez, Moncada & Lücking, *O. usnicolor* Peláez, Moncada & Lücking.]
- Pena-Poza, J., C. Ascaso, M. Sanz, S. Pérez-Ortega, M. Oujja, J. Wierzchos, V. Souza-Egipsy, M. V. Cañamares, M. Urizal, M. Castillejo & M. García-Heras. 2018[2017]. Effect of biological colonization on ceramic roofing tiles by lichens and a combined laser and biocide procedure for its removal. *International Biodeterioration & Biodegradation* 126: 86–94.
- Pentecost, A. 2014. Growth and development of ascomata in two species of Arthoniales, *Arthonia calcarea* and *Alyxoria varia* (Lichenized Ascomycota: Arthoniaceae and Lecanographaceae). *Nova Hedwigia* 98(1–2): 41–49.
- Persson, B. R. R., R. Gjelsvik & E. Holm. 2017. Radioecological modelling of Polonium-210 and Caesium-137 in lichen-reindeer-man and top predators. *Journal of Environmental Radioactivity*: 10.1016/j.jenvrad.2017.08.006.
- Poengsungnoen, V., L. Manoch, P. Mongkolsuk & K. Kalb. 2014. New species of Graphidaceae from Loei Province, Thailand. *Phytotaxa* 189(1): 255–267. [New (all from Thailand): *Fissurina niveoalba* Poengs. & Kalb, *F. phuluangii* Poengs. & Kalb, *Graphis subdussii* Poengs. & Kalb, *G. subinsulana* Poengs. & Kalb, *Leiorreuma hypomelaenoides* Poengs. & Kalb, *Phaeographis caesiodiscoides* Mongkolsuk & Kalb, *Ph. loeiensis* Boonpragob, Manoch & Poeng., *Ph. neotricosoides* Poengs. & Kalb, *Ph. phuruaensis* Poengs. & Kalb, *Ph. schizolomoides* Poengs. & Kalb,

- Ph. siamensis* Poengs. & Kalb, *Platygramme subarechavaletae* Poengs. & Kalb.]
- Pungin, A., U. Windisch, L. Skrypnik, C. Chaika & P. Feduraev. 2017. Biomonitoring the effects of eutrophication in Kaliningrad (Russia) with lichens and tree barks [Biomonitoring von Eutrophierungswirkungen in Kaliningrad (Russland) mit Flechten und Baumrinden]. *Gefahrstoffe Reinhaltung der Luft* 77(4): 137–142.
- Rabbow, E., P. Rettberg, A. Parpart, C. Panitz, W. Schulte, F. Molter, E. Jaramillo, R. Demets, P. Weiß & R. Willnecker. 2017. EXPOSE-R2: The Astrobiological ESA Mission on board of the International Space Station. *Frontiers in Microbiology* 8: 1533.
- Rai, H., P. Nag, R. Khare, D. K. Upreti & R. K. Gupta. 2017. Twenty-eight new records of lichenized fungi from Nepal: A signature of undiscovered biodiversity in Central Himalaya. *Proceedings of the National Academy of Sciences India Section B, Biological Sciences* 87(4): 1363–1376.
- Rapai, S. B., D. McColl & R. T. McMullin. 2017. Examining the role of terrestrial lichen transplants in restoring woodland caribou winter habitat. *The Forestry Chronicle* 93(3): 204–212.
- Rivas Plata, E., H. J. M. Sipman & R. Lücking. 2014. Five new thelotremoid Graphidaceae from the Philippines. *Phytotaxa* 189(1): 282–288. [New (all from Philippines): *Myriotrema subviride* Rivas Plata, Sipman & Lücking, *Ocellularia gigantospora* Rivas Plata, Sipman & Lücking, *O. leucocavata* Rivas Plata, Sipman & Lücking, *O. sublaeviusculoides* Rivas Plata, Sipman & Lücking, *Thelotrema philippinum* Rivas Plata, Sipman & Lücking.]
- Romanov, A. N., T. D. Kochetkova, V. I. Suslyayev & A. S. Shcheglova. 2017. Dielectric properties of marsh vegetation in a frequency range of 0.1–18 GHz under variation of temperature and moisture. *Russian Physics Journal* 60(5): 803–811. [*Cladonia stellaris* one of two species studied. Translated from *Izvestiya Vysshikh Uchebnykh Zavedenii, Fizika*, 5: 52–60.]
- Root, H. T., J. C. Brinda & E. Kyle Dodson. 2017. Recovery of biological soil crust richness and cover 12–16 years after wildfires in Idaho, USA. *Biogeosciences* 14: 3957–3969.
- Roturier, S., S. Ollier, L.-E. Nutti, U. Bergsten & H. Winsa. 2017. Restoration of reindeer lichen pastures after forest fire in northern Sweden: Seven years of results. *Ecological Engineering* 108(A): 143–151.
- Sánchez-Pinto, L. & S. Rodríguez. 2005. Lichens. Pages 22, 27–33, 105. In: A. Arechavaleta, N. Zurita, M. C. Marreno & J. L. Martín-Esquivel (eds.), *Lista preliminar de especies silvestres de Cabo Verde: Hongos, Plantas y Animales Terrestres*. Banco de Datos de Biodiversidad de Cabo Verde. Consejería de Medo Ambiente y Ordenación Territorial, Gobierno de Canarias.
- Santi, E., G. Bacaro, D. Rocchini, A. Chiarucci, I. Bonini, G. Brunialti, L. Muggia & S. Maccherini. 2016[2017]. Methodological issues in exploring cross-taxon congruence across vascular plants, bryophytes and lichens. *Folia Geobotanica* 51(4): 297–304.
- Schmidt, R., M. Ostermeier & R. Schobert. 2017. Wittig Cyclization of ω-Hydroxy Hemiacetals: Synthesis of (+)-Aspicilin. *Journal of Organic Chemistry* 82(17): 9126–9132.
- Seaward, M. R. D., D. H. S. Richardson, I. M. Brodo, R. C. Harris & D. L. Hawksworth. 2017. Checklist of lichen-forming, lichenicolous and allied fungi of Eagle Hill and its vicinity, Maine. *Northeastern Naturalist* 24(3): 349–379.
- Shrestha, R. K., V. K. Arora, J. R. Melton & L. Sushama. 2017. An assessment of geographical distribution of different plant functional types over North America simulated using the CLASS-CTEM modelling framework. *Biogeosciences* 14: 4733–4753.
- Singh, P., Y. Joshi & K. P. Singh. 2017. A new lichenicolous species of *Melaspilea* (Melaspileaceae, Arthoniales) from India. *Acta Botanica Hungarica* 59(3–4): 439–443. [New: *Melaspilea nitidochapsae* (on *Nitidochapsa leprieurii* from India).]
- Singh, P. & K. P. Singh. 2017. New combinations in the family Graphidaceae (lichenized Ascomycota: Ostropales) from India. *Lichenologist* 49(5): 527–533. [New: *Diorygma aeolum* (Stirt.) Pushpi Singh & Kr.P.Singh (≡ *Graphis aeola* Stirt.), *D. spilotum* (Stirt.) Pushpi Singh & Kr.P.Singh (≡ *Graphis spilotata* Stirt.), *Kalbobographa hypoglaucoides* (Kr.P.Singh & D.D.Awasthi) Kr.P.Singh & Pushpi Singh (≡ *Phaeographis hypoglaucoides* Kr.P.Singh & D.D.Awasthi), *Pallidogramme awasthii* (Patw. & C.R.Kulk.) Kr.P.Singh & Pushpi Singh (≡ *Phaeographina awasthii* Patw. & C.R.Kulk.), *Pallidogramme divaricoides* (Räsänen) Pushpi Singh & Kr.P.Singh (≡ *Phaeographis divaricoides* Räsänen), *Phaeographis firmula* (Stirt.) Pushpi Singh & Kr.P.Singh (≡ *Graphis firmula* Stirt.).]
- Sipman, H. J. M. 2014. New species of Graphidaceae from the Neotropics and Southeast Asia. *Phytotaxa* 189(1): 289–311. [New: *Acanthothecis adjuncta* Welz & Sipman (from El Salvador), *Astrochapsa albella* Sipman (from Venezuela), *As. columnaris* Sipman (from Venezuela), *Chapsa francisci* Sipman (from Ecuador), *C. nubila* Sipman (from Venezuela), *Diorygma extensum* Sipman (from Venezuela), *Fissurina chapsoides* Sipman (from Colombia and Venezuela), *F. gigas* Sipman (from French Guyana, Guyana and Venezuela), *F. vorax* Sipman (from Guyana), *Graphis murali-elegans* Sipman (from Costa Rica and Colombia), *G. nigroglobosa* Sipman (from Guyana and Venezuela), *Melanotrema comosum* Sipman (from Colombia), *Myriochapsa annulata* Sipman (from Venezuela), *My. chocoensis* Sipman (from Colombia), *Ocellularia pitalensis* Sipman (from El Salvador), *O. rugosa* Sipman (from Venezuela), *Thelotrema berendsohnii* Sipman (from El Salvador), *T. kinabaluense* Sipman (from Malaysia), *T. paludosum* Sipman (from Colombia), *T. parvisporum* Sipman (from Venezuela).]
- Smith, R. J., S. Jovan, A. N. Gray & B. McCune. 2017. Sensitivity of carbon stores in boreal forest moss mats - effects of vegetation, topography and climate. *Plant and Soil*: 10.1007/s11104-017-3411-x.
- Smoczyk, M. 2013. *Evernia divaricata* (L.) Ach. and other threatened epiphytic macrolichens in the upper valley of Bystrzyca Dusznicka river (Central Sudetes Mts.) [Mąkla rozłożysta *Evernia divaricata* (L.) Ach. i inne zagrożone makroporosty epifityczne w dolinie górnej Bystrzycy Dusznickiej (Sudety Środkowe)]. *Przegląd Przyrodniczy* 24(2): 49–62. [In Polish with English abstract.]
- Stapper, N. J. 2017. Application of the new lichen mapping guideline VDI 3957 Part 20 within the climate change impact monitoring of the City of Dusseldorf [Anwendung der neuen Flechtenkartierungsrichtlinie VDI 3957 Blatt 20 im Klimawandelfolgenmonitoring der Stadt Düsseldorf]. *Gefahrstoffe Reinhaltung der Luft* 77(4): 113–116.
- Stepanchikova, I. S., M. P. Andreev, D. E. Himelbrant, J. Motiejūnaitė, U. Schiefelbein, L. A. Konoreva & T. Ahti. 2017. The lichens of Bolshoy Tuters Island (Tyttärsaari), Leningrad Region, Russia. *Folia Cryptogamica Estonica* 54: 95–116.
- Suh, S.-S., T. K. Kim, J. E. Kim, J.-M. Hong, T. T. T. Nguyen, S. J. Han, U. J. Youn, J. H. Yim & I.-C. Kim. 2017. Anticancer activity of ramalin, a secondary metabolite from the antarctic lichen *Ramalina terebrata*, against colorectal cancer cells. *Molecules* 22(8): 1361.

- Sutjaritturakan, J., W. Saipunkaew, K. Boonpragob & K. Kalb. 2014. New species of Graphidaceae (Ostropales, Lecanoromycetes) from southern Thailand. *Phytotaxa* 189(1): 312–324. [New (from Thailand): *Creographa subbrasilensis* Sutjaritt. & Kalb, *Diorygma angusticarpum* Sutjaritt. & Kalb, *D. chumphonense* Sutjaritt. & Kalb, *D. citri* Sutjaritt. & Kalb, *D. conprotocetraricum* Sutjaritt. & Kalb, *D. fuscopruinosum* Sutjaritt. & Kalb, *D. hieroglyphicellum* Sutjaritt. & Kalb, *D. inexpectatum* Sutjaritt. & Kalb, *D. salazanicum* Sutjaritt. & Kalb, *D. subpruinatum* Sutjaritt. & Kalb, *D. thailandicum* Sutjaritt. & Kalb, *Graphis australosiamensis* Sutjaritt. & Kalb, *Ocellularia palianensis* Sutjaritt. & Kalb, *Platygramme microspora* Sutjaritt. & Kalb.]
- Svensson, M., S. Ekman, J. T. Klepsland, A. Nordin, G. Thor, G. von Hirschheydt, F. Jonsson, T. Knutsson, M. Lif, T. Spribille & M. Westberg. 2017. Taxonomic novelties and new records of Fennoscandian crustose lichens. *MycKeys* 25: 51–86. [New: *Frutidella furfuracea* (Anzi) M. Westb. & M. Svensson (\equiv *Biatora furfuracea* Anzi), *Puttea duplex* (Coppins & Aptroot) M. Svensson (\equiv *Fellhanera duplex* Coppins & Aptroot). Lectotypified: *Bacidia antricola* Hulting, *Lecidea byssoboliza* Nyl., *Lecidea carneoglauca* Nyl., *L. submoestula* Nyl. New synonyms: *L. byssoboliza*, *L. carneoglauca* and *Variolaria torta* Taylor = *Bacidia antricola*, *Bacidia invertens* Van. = *B. igniarii* (Nyl.) Oxner, *L. atrolivida* Vain. = *Mycobilimbia tetramera* (De Not.) Hafellner & Türk, and *Gyalidea fruticola* M. Svensson & G. Thor = *Thelenella pertusariella* (Nyl.) Vain.]
- Szopińska, M., D. Szumińska, R. J. Bialik, S. Chmiel, J. Plenzler & Ż. Polkowska. 2018[2017]. Impact of a newly-formed periglacial environment and other factors on fresh water chemistry at the western shore of Admiralty Bay in the summer of 2016 (King George Island, Maritime Antarctica). *Science of The Total Environment* 613/614: 619–634.
- Taraškevičius, R., J. Motiejunaite, R. Zinkute, A. Eigminiene, L. Gedminiene & Ž. Stankevičius. 2017. Similarities and differences in geochemical distribution patterns in epiphytic lichens and topsoils from kindergarten grounds in Vilnius. *Journal of Geochemical Exploration* 183(B): 152–165. [*Phaeophyscia orbicularis* was sampled.]
- Tarasova, V. N., R. P. Obabko, D. E. Himelbrant, M. A. Boychuk, I. S. Stepanchikova & E. A. Borovichev. 2017. Diversity and distribution of epiphytic lichens and bryophytes on aspen (*Populus tremula*) in the middle boreal forests of Republic of Karelia (Russia). *Folia Cryptogamica Estonica* 54: 125–142.
- Tavili, A., M. Jafari, M. A. Z. Chahouki & M. Sohrabi. 2017. How do cryptogams affect vascular plant establishment? *Cryptogamie, Bryologie* 38(3): 313–323.
- Torres-Benítez, A., M. Rivera-Montalvo, B. Sepúlveda, O. N. Castro, E. Nagles, M. J. Simirgiotis & O. García-Beltrán. 2017. Metabolomic analysis of two *Parmotrema* lichens: *P. robustum* (Degel.) Hale and *P. andinum* (Mull. Arg.) Hale using UHPLC-ESI-OT-MS-MS. *Molecules* 22(11): 1861.
- Tucker, S. C. 2017. Rare lichens collected in California by Judith (Judy) and Ron Roberston. *Evansia* 34(3): 74–84.
- van den Boom, P. P. G. 2017. Lichens and lichenicolous fungi of Estremadura, Portugal, collected in 2015. *Acta Botanica Hungarica* 59(3-4): 459–463.
- van den Boom, P. P. G. & P. Clerc. 2017. Further new or interesting lichens and lichenicolous fungi from La Palma (Canary Islands, Spain). *Folia Cryptogamica Estonica* 54: 117–123. [New: *Didymocytis canariensis* van den Boom & Etayo (on *Ramalina subgeniculata* from Spain).]
- van den Broeck, D., R. Lücking & D. Ertz. 2014. Three new species of Graphidaceae from tropical Africa. *Phytotaxa* 189(1): 325–330. [New: *Graphis aptrootiana* van den Broeck, Lücking & Ertz (from D.R.C.), *G. vandenboomiana* Ertz, Lücking & van den Broeck (from Reunion), *Redingeria desseiniana* van den Broeck, Lücking & Ertz (from D.R.C.). Includes key to *Redingeria*.]
- Van Haluwyn, C. & J. Asta. 2017. Guide des lichens de France, lichens des arbres. *Bulletin d'informations de l'Association Française de Lichénologie* 42(1): 121–132. [In French.]
- Vannini, A., L. Paoli, V. Nicolardi, L. A. Di Lella & S. Loppi. 2017. Seasonal variations in intracellular trace element content and physiological parameters in the lichen *Evernia prunastri* transplanted to an urban environment. *Acta Botanica Croatica* 76(2): 171–176.
- Varga, N., L. Lőkös & E. Farkas. 2016. The lichen-forming and lichenicolous fungi of the Soroksár Botanical Garden (Szent István University, Budapest, Hungary). *Studia Botanica Hungarica* 47(1): 13–28.
- Vitikainen, O. 2016. [Abstract] William Nylander, the defender of lichen autonomy. Page 22. In: IAL8 Abstracts. IAL8, Helsinki, Finland. August 1–5, 2016.
- Wagner, B. 2017. Lichens of the Sedlo Hill in the České středohoří Mts (North Bohemia) [Lišejníky vrchu Sedlo v Českém středohoří (severní Čechy)]. *Bryonora* 59: 37–43. [In Czech with English abstract.]
- Webb, E. E., K. Heard, S. M. Natali, A. G. Bunn, H. D. Alexander, L. T. Berner, A. Kholodov, M. M. Loranty, J. D. Schade, V. Spektor & N. Zimov. 2017. Variability in above- and belowground carbon stocks in a Siberian larch watershed. *Biogeosciences* 14: 4279–4294.
- Weerakoon, G., R. Lücking & H. T. Lumbsch. 2014. Thirteen new species of Graphidaceae (lichenized Ascomycota: Ostropales) from Sri Lanka. *Phytotaxa* 189(1): 331–347. [New (all from Sri Lanka): *Acanthothecis aurantiacodiscus* G. Weerakoon, Lücking & Lumbsch, *Chapsa isidiata* G. Weerakoon, Lücking & Lumbsch, *Halegrapha masoniana* G. Weerakoon, Lücking & Lumbsch, *Leucodecton canescens* G. Weerakoon, Lücking & Lumbsch, *L. fuscomarginatum* G. Weerakoon, Lücking & Lumbsch, *Ocellularia aptrootiana* G. Weerakoon, Lücking & Lumbsch, *O. balangoda* G. Weerakoon, Lücking & Lumbsch, *O. cloonanii* G. Weerakoon, Lücking & Lumbsch, *O. raveniana* G. Weerakoon, Lücking & Lumbsch, *Platythecium sripadakandense* G. Weerakoon, Lücking & Lumbsch, *Rhabdodiscus isidiatus* G. Weerakoon, Lücking & Lumbsch, *R. parmenianus* G. Weerakoon, Lücking & Lumbsch, *Thallolooma pedespulli* G. Weerakoon, Lücking & Lumbsch.]
- Welden, N. A., P. A. Wolseley & M. R. Ashmore. 2018[2017]. Citizen science identifies the effects of nitrogen deposition, climate and tree species on epiphytic lichens across the UK. *Environmental Pollution* 232: 80–89.
- Westerberg, L. M., U. H. Muhammedi, K.-O. Bergman & P. Milberg. 2017. Spatial pattern of occurrence of epiphytic lichens on oaks in a heterogeneous landscape. *Acta Oecologica* 84: 64–71.
- Widory, D., G. Vautour & A. Poirier. 2018[2017]. Atmospheric dispersion of trace metals between two smelters: An approach coupling lead, strontium and osmium isotopes from bioindicators. *Ecological Indicators* 84: 497–506.
- Wijayawardene, N. N., K. D. Hyde, K. C. Rajeshkumar, D. L. Hawksworth, H. Madrid, P. M. Kirk, U. Braun, R. V. Singh, P. W. Crous, M. Kukwa, R. Lücking, C. P. Kurtzman, A. Yurkov, D. Haelewaters, A. Aptroot, H. T. Lumbsch, E. Timdal, D. Ertz, J. Etayo, A. J. L. Phillips, J. Z. Groenewald, M. Papizadeh, L. Selbmann, M. C. Dayarathne, G. Weerakoon, E. B. Gareth Jones, S. Suetrong, Q. Tian, R. F. Castañeda-Ruiz, A. H. Bahkali, K.-L. Pang, K. Tanaka, D. Q. Dai, J. Sakayaroj, M. Hujslóvá, L.

- Lombard, B. D. Shenoy, A. Suija, S. S. N. Maharachchikumbura, K. M. Thambugala, D. N. Wanasinghe, B. O. Sharma, S. Gaikwad, G. Pandit, L. Zucconi, S. Onofri, E. Egidi, H. A. Raja, R. Kodsueb, M. E. S. Cáceres, S. Pérez-Ortega, P. O. Fiuza, J. S. Monteiro, L. N. Vasilyeva, R. G. Shivas, M. Prieto, M. Wedin, I. Olariaga, A. A. Lateef, Y. Agrawal, S. A. S. Fazeli, M. A. Amoozegar, G. Z. Zhao, W. P. Pfliegler, G. Sharma, M. Oset, M. A. Abdel-Wahab, S. Takamatsu, K. Bensch, N. I. Silva, A. De Kesel, A. Karunarathna, S. Boonmee, D. H. Pfister, Y.-Z. Lu, Z.-L. Luo, N. Boonyuen, D. A. Daranagama, I. C. Senanayake, S. C. Jayasiri, M. C. Samarakoon, Z.-Y. Zeng, M. Doilom, L. Quijada, S. Rampadarath, G. Heredia, A. J. Dissanayake, R. S. Jayawardana, R. H. Perera, L. Z. Tang, C. Phukhamsakda, M. Hernández-Restrepo, X. Ma, S. Tibpromma, L. F. P. Gusmao, D. Weerahewa & S. C. Karunarathna. 2017. Notes for genera: Ascomycota. *Fungal Diversity*: 10.1007/s13225-017-0386-0. [Extensive listing of genera that clears the path to protected names for lichens. *Catenomyces* Tibell & Constant. synonymized with *Chaenothecopsis* Vain.]
- Windisch, U. 2017. Applications of lichens for biological monitoring of atmospheric input of reactive nitrogen [Einsatzmöglichkeiten von Flechten beim Biomonitoring atmosphärischer reaktiver Stickstoffeinträge]. *Gefahrstoffe Reinhaltung der Luft* 77(4): 123–126.
- Yan, S.-K., X.-X. Zhao, Z.-J. Ren & L.-L. Zhang. 2017. New records of *Lepraria* and *Trapelia* from China. *Mycotaxon* 132(3): 531–537.
- Yang, J. A., S. G. Hong & H.-M. Oh. 2017. Genome sequence of *Caballeronia sordidicola* strain PAMC 26510 isolated from *Psoroma* sp., an Antarctic lichen. *Korean Journal of Microbiology* 53(2): 137–140.
- Yang, J. A., S. G. Hong & H.-M. Oh. 2017. Genome sequence of *Caballeronia sordidicola* strain PAMC 26577 isolated from *Cladonia* sp., an Arctic lichen species. *Korean Journal of Microbiology* 53(2): 141–143.
- Yang, L., J. Deng, H. Guo, T. Xu & C. Wang. 2017. Divergence of epiphytic lichen diversity of native and introduced tree species in the secondary forests of Shennongjia Mountain. *Linye Kexue/Scientia Silvae Sinicae* 53(7): 149–158.
- Yeshitela, K. 2008. [Dissertation] Effects of anthropogenic disturbance on the diversity of foliicolous lichens in tropical rainforests of East Africa: Godere (Ethiopia), Budongo (Uganda) and Kakamega (Kenya). Cuvillier Verlag, Göttingen. 265 pages.
- Zakeri, Z., J. A. Elix & V. Otte. 2017. Degradation of alectorialic acid in the lichen genus *Usnea*. *Lichenologist* 49(5): 539–543.
- Zamin, T. J., S. D. Côté, J.-P. Tremblay & P. Grogan. 2017. Experimental warming alters migratory caribou forage quality. *Ecological Applications* 27(7): 2061–2073.
- Zarabaska-Bożejewicz, D. 2017. New locality of *Anaptychia ciliaris* (L.) Körb. in the Wielkopolska-Kujawska Lowland [Nowe stanowisko obrotnicy rzęsowatej *Anaptychia ciliaris* (L.) Körb. na Nizinie Wielkopolsko-Kujawskiej]. *Przegląd Przyrodniczy* 28(2): 23–31. [In Polish with English abstract.]
- Zhang, T., M. Liu, Y. Y. Wang, Z.-J. Wei & J.-C. Wei. 2017. Two new species of *Endocarpon* (Verrucariaceae, Ascomycota) from China. *Scientific Reports* 7: 7193. [New (from China): *E. deserticola* T.Zhang, X.L.Wei & J.C.Wei, *E. unifoliatum* T.Zhang, X.L.Wei & J.C.Wei.]
- Zhu, J., X. Zhang, X. Chen, Y. Sun, Y. Dai, C. Chen, T. Zhang & Z. Yan. 2017. Studies on the regulation of lipid metabolism and the mechanism of the aqueous and ethanol extracts of *Usnea*. *Biomedicine & Pharmacotherapy* 94: 930–936.
- Zhuravleva, S. E., L. T. B. Nguyet, P. V. Bondarenko & E. M. Trukhan. 2017. Study of transplanted lichens with the use of physical methods: The case of *Xanthoria parietina* (L.) Th. Fr. *Biophysics* 62(4): 661–666. [Translated from and republished from *Biofizika* 62(4): 807–814.]
- Zhurbenko, M. P. 2017. Lichenicolous fungi of the Caucasus: New species, new records and a second synopsis. *Opuscula Philolichenum* 16: 267–311. [New: *Nanostictis caucasica* Zhurb. (on *Parmelia sulcata* from Russia).]
- Zotz, G. 2017. Growth of *Rhizocarpon geographicum* in the summit region of Volcan Barú, Panama. *Lichenologist* 49(5): 535–538.