

Recent literature on lichens—265

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- Aartsma, P., J. Asplund, A. Odland, S. Reinhardt & H. Renssen. 2021. Microclimatic comparison of lichen heaths and shrubs: Shrubification generates atmospheric heating but subsurface cooling during the growing season. *Biogeosciences* 18(5): 1577–1599.
- Abas, A. & L. Din. 2020. Heavy metal concentration assessment using transplanted lichen *Usnea misaminensis* at Pasir Gudang, Johor. IOP Conference Series: Earth and Environmental Science 549: 012063.
- Abril, M. A. Q., D. M. R. Ospina, M. I. D. Rave & J. L. Valencia. 2021. Lichens as biosensors for the evaluation of urban and suburban air pollution in a tropical mountain valley, Rionegro, Antioquia. *Revista Bionatura* 6(1): 1501–1509.
- Aggarwal, S. 2021. Indian dye yielding plants: Efforts and opportunities. *Natural Resources Forum* 45(1): 63–86.
- Akerman, T., G. Spiers, P. Beckett, J. Anderson & F. Caron. 2021. Assessment of airborne lead provenance in northern Ontario, Canada, using isotopic ratios in snow and *Cladonia rangiferina* lichens. *Water, Air, and Soil Pollution* 232(2): 61.
- Aptroot, A., A. A. Spielmann & E. L. Gumboski. 2021. New lichen species and records from Santa Catarina and Rio Grande do Sul, Brazil. *Archive for Lichenology* 23: 1–18. [New (all from Brazil): *Astrothelium aureoirregularare* Aptroot & Gumboski, *Bogoriella xantholateralis* Aptroot, *Lecanora umbilicatimmersa* Aptroot & Spielmann, *Lepra lichexanthonorstictica* Aptroot, *Megalaria flavosorediata* Aptroot, *Vainionora sorediata* Aptroot.]
- Aptroot, A., N. J. Stapper, A. Košuthová & K. van Herk. 2021. Lichens as an indicator of climate and global change. Pages 483–497. In: T. M. Letcher (ed.), *Climate Change, Observed Impacts on Planet Earth, Third Edition*. Elsevier.
- Avidlyandi, A., M. Adfa & S. Yudha. 2021. Antitermite activity of methanol extract of lichen *Teloschistes flavicans* (Sw) Norman against *Coptotermes curvignathus*. *Journal of Physics: Conference Series* 1731(1): 012022.
- Azman, A. A., N. Nadiyah, A. R. Rosandy, A. Alwi, N. Kamal, R. M. Khalid & M. A. Bakar. 2021. Antimicrobial activity and lc-ms data comparison from lichen *Parmotrema praesorediosum* in Bangi, Selangor, Malaysia. *Sains Malaysiana* 50(2): 383–393.
- Baldrian, P., T. Větrovský, C. Lepinay & P. Kohout. 2021. High-throughput sequencing view on the magnitude of global fungal diversity. *Fungal Diversity*: 10.1007/s13225-021-00472-y. [Lichens host some of the highest levels of fungal diversity.]
- Bates, S. T., A. Barber, E. Gilbert, R. T. Schroeder & T. H. Nash III. 2010. A revised catalog of Arizona lichens. *Canotia* 6(1): 26–43.
- Beckett, R. P., F. Minibayeva, K. A. Solhaug & T. Roach. 2021. Photoprotection in lichens: Adaptations of photobionts to high light. *The Lichenologist* 53(1): 21–33.
- Bell-Doyon, P., S. B. Selva & R. T. McMullin. 2021. Calicioid fungi and lichens from an unprotected intact forest ecosystem in Québec. *Ecoscience* 28(2): 127–136.
- Blasco, M., C. Domeño & C. Nerín. 2008. Lichens biomonitoring as feasible methodology to assess air pollution in natural ecosystems: Combined study of quantitative PAHs analyses and lichen biodiversity in the Pyrenees Mountains. *Analytical and Bioanalytical Chemistry* 391: 759–771.
- Boch, S., H. Saiz, E. Allan, P. Schall, D. Prati, E.-D. Schulze, D. Hessenmöller, L. B. Sparrius & M. Fischer. 2021. Direct and indirect effects of management intensity and environmental factors on the functional diversity of lichens in central European forests. *Microorganisms* 9(2): 463.
- Boiko, T. O. 2012. The life forms of lichens on different substrates in Yelanetsko-Ingulskiy region (Mikolayivska and Kirovograd-ska oblast, Ukraine). *Modern Phytomorphology* 2: 85–88. [In Ukrainian with English abstract.]
- Bui, V. M., B. L. C. Huynh, N. K. T. Pham, T. A. T. Nguyen, T. T. T. Nguyen, K. P. P. Nguyen & T. P. Nguyen. 2021. Usneceratin A and B, two new secondary metabolites from the lichen *Usnea ceratina*. *Natural Product Research*: 10.1080/14786419.2021.1901288.
- Bültmann, H. & C. H. Lünterbusch. 2008. The *Cladonia cariosa* group in Greenland. *Abhandlungen aus dem Westfälischen Museum für Naturkunde* 70(3/4): 305–312.
- Cannon, P., A. Aptroot, B. Coppins, N. Sanderson & J. Simkin. 2021. Peltigerales: Pannariaceae, including the genera *Fusco-pannaria*, *Leptogidium*, *Nevesia*, *Pannaria*, *Parmeliella*, *Pectenaria*, *Protopannaria* and *Psoroma*. *Revisions of British and Irish Lichens* 9: 1–16. [Treatment with keys, descriptions and maps.]
- Cannon, P., S. Chambers, B. Coppins, N. Sanderson & J. Simkin. 2021. Pertusariales: Pertusariaceae, including the genus *Pertusaria*. *Revisions of British and Irish Lichens* 6: 1–13. [Treatment with keys, descriptions and maps.]
- Cannon, P., S. Ekman, S. Kistenich, S. LaGreca, C. Printzen, E. Timdal, A. Aptroot, B. Coppins, A. Fletcher, N. Sanderson & J. Simkin. 2021. Lecanorales: Ramalinaceae, including the genera *Bacidia*, *Bacidina*, *Bellicidia*, *Biatora*, *Bibbya*, *Bilimbia*, *Cliostomum*, *Kiliasia*, *Lecania*, *Megalaria*, *Mycobilimbia*, *Phyllopsora*,

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- Ramalina*, *Scutula*, *Thalloidima*, *Toninia*, *Toniniopsis* and *Tylohallia*. Revisions of British and Irish Lichens 11: 1–82. [New: *Mycobilimbia sphaeroides* (Dicks.) S.Ekman & Printzen (≡ *Lichen sphaeroides* Dicks.), *Scutula igniarii* (Nyl.) S.Ekman (≡ *Lecidea igniarii* Nyl.), *Toniniopsis bagliettoana* (A.Massal. & De Not.) Kistenich & Timdal (≡ *Scoliciosporum bagliettoanum* A.Massal. & De Not.), *T. coprodes* (Körb.) S.Ekman & Coppins (≡ *Bilimbia coprodes* Körb.), *T. inornata* (Nyl.) S.Ekman & Coppins (≡ *Lecidea inornata* Nyl.). Treatment with keys, descriptions and maps.]
- Cannon, P., M. Kukwa, B. Coppins, A. Fletcher, N. Sanderson & J. Simkin. 2021. Pertusariales: Ochrolechiaceae, including the genera *Lepra*, *Ochrolechia* and *Varicellaria*. Revisions of British and Irish Lichens 5: 1–17. [Treatment with keys, descriptions and maps.]
- Cannon, P., J. Malíček, N. Sanderson, B. Benfield, B. Coppins & J. Simkin. 2021. Ostropales: Coenogoniaceae, including the genus *Coenogonium*. Revisions of British and Irish Lichens 3: 1–4. [Treatment with keys and descriptions.]
- Cannon, P. & A. Orange. 2021. Ostropales: Protothelenellaceae, including the genus *Protothelenella*. Revisions of British and Irish Lichens 7: 1–4. [Treatment with keys, descriptions and maps.]
- Carr, E. C., S. D. Harris, J. R. Herr & W. R. Riekhof. 2021. Lichens and biofilms: Common collective growth imparts similar developmental strategies. *Algal Research* 54: 102217.
- Cavalloro, V., G. Marrubini, R. Stabile, D. Rossi, P. Linciano, G. Gheza, S. Assini, E. Martino & S. Collina. 2021. Microwave-assisted extraction and HPLC-UV-CD determination of (S)-usnic acid in *Cladonia foliacea*. *Molecules* 26(2): 455.
- Chambers, S., P. Cannon, B. Coppins & J. Simkin. 2021. Vezdaeales: Vezdaeaceae, including the genus *Vezdaea*. Revisions of British and Irish Lichens 10: 1–5. [Treatment with keys, descriptions and maps.]
- Clayden, S. R., T. Ahti, R. Pino-Bodas, M. Pitcher, B. P. Løfall, J. W. McCarthy & R. T. McMullin. 2021. First documented occurrences of *Cladonia krogiana* and *C. rangiformis* in North America. *Opuscula Philolichenum* 20: 25–36.
- Çobanoğlu, G., C. Sesal, B. Açıkgöz & I. Karalti. 2016. Evaluation of antimicrobial activity of the lichens *Physcia aipolia*, *Xanthoria parietina*, *Usnea florida*, *Usnea subfloridana* and *Melanohalea exasperata*. *Modern Phytomorphology* 10: 19–24.
- Coppins, B. J., H. Kashiwadani, K. H. Moon, T. Spribille & G. Thor. 2021. The genera *Brianaria* (Psoraceae) and *Micarea* (Pilocarpaceae) in Japan, with reports on other interesting species in Asia. *The Lichenologist* 53(1): 35–44. [New: *Micarea ceylanica* Coppins (from Sri Lanka), *M. inopinula* (Nyl.) Coppins & T.Sprib. (≡ *Lecidea inopinula* Nyl., lectotypified), *M. longispora* Coppins (from Great Britain, Ireland, Scotland, Spain), *M. rubioides* Coppins (from Japan, Malaysia, Philippines). *Micarea coreana* L.Lökös et al. placed in synonymy with *M. erratica* (Körb.) Hertel et al.]
- Coppins, B. J., S. Y. Kondratyuk, J. Etayo & P. F. Cannon. 2021. Notes on lichenicolous species of *Opegrapha* s. lat. (Arthoniales) on Arthoniaceae and Verrucariaceae, with a key to British and Irish lichenicolous Opegraphaceae. *The Lichenologist* 53(2): 159–169. [New: *O. arthoniicola* Coppins & S.Y.Kondr. (on *Arthonia radiata* from Great Britain, Ireland, Scotland), *O. hochstetteri* Coppins (on *Verrucaria hochstetteri* from Great Britain, Luxembourg), *O. sawyeriana* Coppins (on *Coniocarpon cinnabarinum* from Great Britain, Ireland). Includes key to lichenicolous Opegraphaceae from Great Britain and Ireland.]
- Cornet, L., N. Magain, D. Baurain & F. Lutzoni. 2021. Exploring syntenic conservation across genomes for phylogenetic studies of organisms subjected to horizontal gene transfers: A case study with cyanobacteria and cyanolichens. *Molecular Phylogenetics and Evolution* 162: 107100.
- Czerepko, J., R. Gawryś, R. Szymczyk, W. Pisarek, M. Janek, A. Haidt, A. Kowalewska, A. Piegdoń, A. Stebel, M. Kukwa & C. Cacciatori. 2021. How sensitive are epiphytic and epixylic cryptogams as indicators of forest naturalness? Testing bryophyte and lichen predictive power in stands under different management regimes in the Białowieża Forest. *Ecological Indicators* 125: 107532.
- Czyżewska, K. 2020. The lichenized, lichenicolous and other non-lichenized allied fungi of Central Poland: A catalogue. W. Szafer Institute of Botany, Polish Academy of Sciences, Kraków. 241 pages.
- Dal Forno, M., L. Kaminsky & R. Lücking. 2021. *Cora timucua*. The IUCN Red List of Threatened Species 2021: e.T175711802A175712343.
- Davydov, E., L. Yakovchenko, I. Galanina, A. Paukov, I. Frolov & T. Ahti. 2021. New records of lichens from the Russian Far East. III. Lichens of coastal habitats. *Turczaninowia* 24(1): 25–36. [In Russian with English abstract.]
- Dymytrova, L. 2010. Notes on the genus *Scoliciosporum* (Lecanorales, Ascomycota) in Ukraine. *Polish Botanical Journal* 56(1): 61–75.
- Ekman, S., T. Tønsberg & P. P. G. van den Boom. 2021. Three overlooked species of *Bacidia* from insular Laurimacaronesia. *Nordic Journal of Botany* 39(3): 1–11. [New: *B. deludens* S.Ekman, Tønsberg & van den Boom (from Spain). Includes a key to *Bacidia* s.str. in insular Laurimacaronesia.]
- Ellis, C. J. & S. Eaton. 2021. Climate change refugia: Landscape, stand and tree-scale microclimates in epiphyte community composition. *The Lichenologist* 53(1): 135–148.
- Emmer, A., M. Le Roy, A. Sattar, B. Veettil, J. Alcalá-Reygosa, N. Campos, J. Malecki & A. Cochachin. 2021. Glacier retreat and associated processes since the Last Glacial Maximum in the Lejiamay valley, Peruvian Andes. *Journal of South American Earth Sciences* 109: 103254. [Lichen colonization rates.]
- Erken, M. T., D. Cansaran-Duman & U. Tanman. 2021. In silico prediction of type I PKS gene modules in nine lichenized fungi. *Biotechnology and Biotechnological Equipment* 35(1): 376–383.
- Ertz, D., K. E. Driscoll & S. R. Clayden. 2021. Two new lichenicolous species of *Opegrapha* (Arthoniales) from Canada. *The Bryologist* 124(1): 39–51. [New: *O. inconspicua* Ertz, S.R.Clayden & K.E.Driscoll (on *Verrucaria aethiobola* from Canada), *O. parmeliiperda* Ertz, K.E.Driscoll & S.R.Clayden (on *Parmelia squarrosa*, *P. sulcata*, *P. sp.*). Includes key to Canadian lichenicolous *Opegrapha* s.l.]
- Ertz, D., N. Sanderson & M. Lebouvier. 2021. *Thelopsis* challenges the generic circumscription in the Gyalectaceae and brings new insights to the taxonomy of *Ramonia*. *The Lichenologist* 53(1): 45–61. [New: *Francisrosea* Ertz & Sanderson (type: *F. bicolor*), *F. bicolor* Ertz & Sanderson (from Great Britain), *Gyalecta amsterdamsensis* Ertz (from French Southern and Antarctic Lands), *Neopetractis* Ertz (type: *N. luetkemulleri*), *N. luetkemulleri* (Zahlbr.) Ertz (≡ *G. luetkemulleri* Zahlbr.), *N. nodispora* (Orange) Ertz (≡ *Petractis nodispora* Orange), *R. melathelia* (Nyl.) Ertz (≡ *T. melathelia* Nyl.), *T. corticola* (Coppins & P.James) Sanderson & Ertz (≡ *Opegrapha corticola* Coppins & P.James).]

- Escandón, D. D., D. L. Hawksworth, M. Powell, P. Resl & T. Spribille. 2021. The British chalk specialist *Lecidea lichenicola* auct. revealed as a new genus of Lichinomycetes. *Fungal Biology* 125(7): 495–504. [*Discocera* A.L.Sm. & Ramsb. = *Trapelia* and *D. lichenicola* A.L.Sm. & Ramsb. = *T. glebulosa*. New: *Watsoniomyces* D.Hawksw., M.Powell & T.Sprib. (type: *W. obsoletus*), *W. obsoletus* (Nyl.) D.Hawksw., M.Powell & T.Sprib. (= *Lecidea obsoleta* Nyl., neotypified).]
- Ezhkin, A. K. 2012. Morphological changes of the lichens in anthropogenic modified habitats in Yuzhno-Sakhalinsk City suburbs. *Modern Phytomorphology* 1: 115–117. [In Ukrainian with English abstract.]
- Ezhkin, A. K. 2013. Morphological changes and damages of indicator lichens from Sakhalin Island. *Modern Phytomorphology* 4: 115–116.
- Fanelli, G., C. Coleine, F. Gevi, S. Onofri, L. Selbmann & A. M. Timperio. 2021. Metabolomics of dry versus reanimated Antarctic lichen-dominated endolithic communities. *Life* 11(2): 96.
- Farkas, E., B. Biró, N. Varga, M. Sinigla & L. Lőkös. 2021. Analysis of lichen secondary chemistry doubled the number of *Cetrelia* W.L. Culb. & C.F. Culb. species (Parmeliaceae, Lichenised Ascomycota) in Hungary. *Cryptogamie, Mycologie* 42(1): 1–16. [Lectotypified: *Parmelia cetrarioides* f. *pseudofallax* Gyeln. (= *Cetrelia monachorum*).]
- Fernandes, R. F., G. A. S. Alves, R. V. Gonçalves & M. L. A. Temperini. 2021. A methodology to identify the releasing of the amide-containing β -glucan from the *Usnea* lichen: A spectroscopic study. *Journal of Polymers and the Environment*: 10.1007/s10924-021-02104-7.
- Fryday, A. M. & K. L. Dillman. 2021. Two new species of Ostropales (Lecanoromycetes) and other significant records of lichenized fungi from southeastern Alaska. *The Bryologist* 124(1): 20–26. [New (from U.S.A.): *Jamesiella dacryoidea* Fryday, *Sagiolechia bairdensis* Fryday. Includes key to *Gyalidea* and *Sagiolechia* in North America.]
- Fryday, A. M., T. Spribille & T. Tønsberg. 2021. (2794) Proposal to conserve the name *Coccotrema* against *Lepolichen* (Ascomycota, Lecanoromycetes, Coccotremataceae). *Taxon* 70(1): 203–204.
- Gerasimova, J. V., I. N. Urbanavichene, G. P. Urbanavichus & A. Beck. 2021. Morphological and phylogenetic analyses of *Toniniopsis subincompta* s. lat. (Ramalinaceae, Lecanorales) in Eurasia. *The Lichenologist* 53(2): 171–183. [New: *Toniniopsis dissimilis* Gerasimova & A.Beck (from Austria, Finland, Germany, Norway, Slovakia, Sweden, Turkey), *T. separabilis* (Nyl.) Gerasimova & A.Beck (= *Lecidea separabilis* Nyl.). Lectotypified: *Bacidia vegeta* Vain. (= *T. separabilis*), *L. bacillifera* f. *melanotica* Nyl. (= *T. separabilis*), *Secoliga atrosanguinea* var. *affinis* Stizenb. (= *T. separabilis*).]
- Ghennam, K., F. Attou & F. Abdoun. 2021. Impact of atmospheric pollution on asthma and bronchitis based on lichen biomonitoring using IAP, IHI and GIS in Algiers Bay (Algeria). *Environmental Monitoring and Assessment* 193(4): 198.
- Gheza, G., L. Di Nuzzo, C. Vallese, R. Benesperi, E. Bianchi, V. Di Cecco, L. Di Martino, P. Giordani, J. Hafellner, H. Mayrhofer, P. L. Nimis, M. Tretiach & J. Nascimbene. 2021. The lichens of the Majella National Park (Central Italy): An annotated checklist. *MycKeys* 78: 119–168.
- Golzadeh, N., B. D. Barst, J. M. Baker, J. C. Auger & M. A. McKinney. 2021. Alkylated polycyclic aromatic hydrocarbons are the largest contributor to polycyclic aromatic compound concentrations in traditional foods of the Bigstone Cree Nation in Alberta, Canada. *Environmental Pollution* 275: 116625. [Study included *Usnea*.]
- González-Montelongo, C. & I. Pérez-Vargas. 2021. Is an invasive alien tree able to sustain a similar lichen diversity as the native forest? The case of the sweet chestnut (*Castanea sativa* Mill.) and the laurel forest in Macaronesia. *Forest Ecology and Management* 488: 119009.
- Grimm, M., M. Grube, U. Schiefelbein, D. Zühlke, J. Bernhardt & K. Riedel. 2021. The lichens' microbiota, still a mystery? *Frontiers in Microbiology* 12: 623839.
- Grube, M. 2021. Lichens growing greenhouses en miniature. *Microbial Cell* 8(3): 65–68.
- Grzesiak, J., A. Woltyńska, M. K. Zdanowski, D. Górnica, A. Świątecki, M. A. Olech & T. Aleksandrak-Piekarczyk. 2021. Metabolic fingerprinting of the Antarctic cyanolichen *Leptogium puberulum*-associated bacterial community (Western Shore of Admiralty Bay, King George Island, Maritime Antarctica). *Microbial Ecology*: 10.1007/s00248-021-01701-2.
- Gómez, R. Q., M. A. E. Chaparro, M. A. E. Chaparro, A. G. Castañeda-Miranda, D. C. Marié, J. D. Gargiulo & H. N. Böhnel. 2021. Magnetic biomonitoring using native lichens: Spatial distribution of traffic-derived particles. *Water, Air, & Soil Pollution* 232(4): 124.
- Güvenç, Ş., V. John & A. Türk. 2020. Phytogeographical analysis of the lichens and lichenicolous fungi of Turkey. *Borziana* 1: 87–108.
- Haridas, S., R. Albert, M. Binder, J. Bloem, K. LaButti, A. Salamov, B. Andreopoulos, S. E. Baker, K. Barry, G. Bills, B. H. Bluhm, C. Cannon, R. Castanera, D. E. Culley, C. Daum, D. Ezra, J. B. González, B. Henrissat, A. Kuo, C. Liang, A. Lipzen, F. Lutzoni, J. Magnuson, S. J. Mondo, M. Nolan, R. A. Ohm, J. Pangilinan, H.-J. Park, L. Ramírez, M. Alfaro, H. Sun, A. Tritt, Y. Yoshinaga, L.-H. Zwiers, B. G. Turgeon, S. B. Goodwin, J. W. Spatafora, P. W. Crous & I. V. Grigoriev. 2020. 101 Dothideomycetes genomes: A test case for predicting lifestyles and emergence of pathogens. *Studies in Mycology* 96: 141–153.
- Hell, A. F., F. Gasulla, M. González-Houcarde, M. T. Pelegrino, A. B. Seabra, E. M. Campo, L. M. Casano & D. C. Centeno. 2021. Polyols-related gene expression is affected by cyclic desiccation in lichen microalgae. *Environmental and Experimental Botany* 185: 104397.
- Hoffman, J. R., Y. Ohmura & J. C. Lendemer. 2021. *Cladonia submitis*. The IUCN Red List of Threatened Species 2021: e.T183335302A183335414.
- Hong, J.-M., J. E. Kim, S. K. Min, K.-H. Kim, S. J. Han, J. H. Yim, H. Park, J.-H. Kim & I.-C. Kim. 2021. Anti-inflammatory effects of Antarctic lichen *Umbilicaria antarctica* methanol extract in lipopolysaccharide-stimulated RAW 264.7 macrophage cells and zebrafish model. *BioMed Research International* 2021: 8812090.
- Ivanovich, C., C. Dolnik, V. Otte, Z. Palice, M. Sohrabi & C. Printzen. 2021. A preliminary phylogeny of the *Lecanora saligna*-group, with notes on species delimitation. *The Lichenologist* 53(1): 63–79.
- Jordan, W. P. 1973. The genus *Lobaria* in North America north of Mexico. *The Bryologist* 76(2): 225–251.
- Kędzia, S. 2021. Initial colonisation by *Rhizocarpon geographicum* in the Tatra Mountains. *Journal of Mountain Science* 18(2): 407–415.
- Kantelinen, A., M.-T. Hyvärinen, P. M. Kirika & L. Myllys. 2021. Four new *Micarea* species from the montane cloud forests of Taita Hills, Kenya. *The Lichenologist* 53(1): 81–94. [New (all from Kenya): *M. pumila* Kantelinen & Myllys, *M. stellaris*

- Kantelinen & Myllys, *M. taitensis* Kantelinen & Myllys, *M. versicolor* Kantelinen, Hyvärinen & Myllys.]
- Kantvilas, G. 2021. *Lecanactis* (Roccellaceae) in Tasmania, with the description of a new saxicolous species and a revised key for the genus in Australia. *The Lichenologist* 53(1): 95–101. [New: *L. scopulicola* Kantvilas (from Australia).]
- Kantvilas, G., B. J. Coppins, C. J. Ellis & M.-T. Hyvärinen. 2021. Peter Crittenden - A liber amicorum. *The Lichenologist* 53(1): 1.
- Kantvilas, G., B. J. Coppins, P. M. McCarthy & J. A. Elix. 2020. New records of lichens from Tasmania, principally from the 2018 TMAG expedition of discovery to Musselroe Bay. *Papers and Proceedings of the Royal Society of Tasmania* 154: 1–8. [New: *Austroparmelia corrugativa* (Kurok. & Filson) Elix & Kantvilas (≡ *Parmelia corrugativa* Kurok. & Filson).]
- Knudsen, K., J. Kocourková, P. Cannon, B. Coppins, A. Fletcher & J. Simkin. 2021. Acarosporales: Acarosporaceae, including the genera *Acarospora*, *Caeruleum*, *Myriospora*, *Pleopsidium*, *Sarcogyne* and *Trimmatothelopsis*. Revisions of British and Irish Lichens 12: 1–25. [New: *Sarcogyne oceanica* K.Knudsen & Kocourk. (from Greece, Italy, United Kingdom). Treatment with keys, descriptions and maps.]
- Knudsen, K., J. Kocourková, E. Hodková & Y. Wang. 2021. Lichenological Notes 8: *Acarospora fusca*. *Opuscula Philolichenum* 20: 19–24.
- Kondratyuk, S. Y. 2013. Genera of xanthorioid lichens (Teloschistaceae, Ascomycota) supported by molecular phylogeny (list, key to identification, position). *Modern Phytomorphology* 3: 219–224. [In Ukrainian with English abstract.]
- Kondratyuk, S. Y., M.-H. Jeong, I. Kärnefelt, J. A. Elix, J.-S. Hur & A. Thell. 2012. Phylogeny and taxonomy of the Teloschistaceae (Ascomycota): Importance of monophyletic groups. *Modern Phytomorphology* 1: 53–57. [In Ukrainian with English abstract.]
- Kondratyuk, S. Y., J. Kim, A. S. Kondratyuk, M.-H. Jeong, S.-H. Jang, M. V. Pirogov & J.-S. Hur. 2014. First data on molecular phylogeny of the genus *Protoparmeliopsis* M. Choisy (Lecanoraceae, Ascomycota). *Modern Phytomorphology* 5: 63–68.
- Korkanç, M., İ. İnce, M. E. Hatır & M. B. Tosunlar. 2021. Atmospheric and anthropogenic deterioration of the İvriz rock monument: Ereğli-Konya, Central Anatolia, Turkey. *Bulletin of Engineering Geology and the Environment* 80: 3053–3063.
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