

- Vězda A. (2003): Lichenes rarores exsiccati. Fasciculus 49–50 (numeris 481–500). – Brno.
- Vězda A. (2003): *Gyalideopsis tuerkii* (lichenisierte *Ascomycotina*, *Gomphilaceae*), eine neue Art der Alpen. – *Herzogia* 16: 35–40.
- Vězda A. (2004): Neue foliicole Flechten III. – *Acta Musei Richnoviensis, sect. natur.*, 11/2: 57–72.
- Vězda A. (2004): Foliicolous lichens distributed in Vězda: Lichenes selecti exsiccati 1966-1991. – *Acta Musei Richnoviensis, sect. natur.*, 11/2: 73–76.
- Vězda A. (2004): Foliicolous lichen species distributed in exsiccatum Vězda: Lichenes rarores exsiccati 1992-2003. – *Acta Musei Richnoviensis, sect. natur.*, 11/2: 77–79.
- Vězda A. (2004): Zur Systematik von *Bacidia permira* (foliicole Flechte, *Ascomycotina*). – *Czech Mycology* 56: 149–150.
- Vězda A. (2004): Notes on the exsiccatum „Vězda: Lichenes rarores“ with Index to fascicles 1-50 (Nos 1-500). – *Czech Mycology* 56: 151–162.
- Vondrák J. & Palice Z. (2004): Lichenologicky významná lokalita Zábrdská skála v Prachatickém Předšumaví. [A lichenologically outstanding locality "Zábrdská skála" at the foothills of the Bohemian Forest Mts (Czech Republic).] – *Bryonora* 33: 22–26.
- Zelinková J. (2004): Lišejníky pískovcových oblastí CHKO Broumovsko. Literární excerptce. [The lichens of sandstone areas of the protected area Broumovsko in the Czech Republic – literary excerption.] – *Acta Musei Richnoviensis, sect. natur.*, 11/2: 81–99.

NOVÁ BRYOLOGICKÁ LITERATURA XIII.

New bryological literature, XIII

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- Acebey A., Gradstein S. R. & Kromer T. (2003): Species richness and habitat diversification of bryophytes in submontane rain forest and fallows of Bolivia. – *Journal of Tropical Ecology* 19: 9–18.
- Aceto M., Abollino O., Conca R., Malandrino M., Mentasti E. & Sarzanini C. (2003): The use of mosses as environmental metal pollution indicators. – *Chemosphere* 50: 333–342.
- Adamo P., Giordano S., Vingiani S., Cobianchi R. C. & Violante P. (2003): Trace element accumulation by moss and lichen exposed in bags in the city of Naples (Italy). – *Environmental Pollution* 122: 91–103.
- Afonina O. M. & Matveyeva N. V. (2003): Mosses of the Bolshevik Island (Severnaya Zemlya Archipelago). – *Botanicheskiy Zhurnal* 88: 1–24.
- Ahmed J. & Frahm J.-P. (2003): Isozyme variability among Central European species of the aquatic moss *Cinclidotus*. – *Cryptogamie Bryologie* 24: 147–154.
- Ahonen I. (2003): The molecular phylogeny of the order *Porellales* (*Jungermanniopsida*, *Marchantiophyta*). – *Cladistics* 19: 148–148.
- Ah-Peng C. & Rausch de Traubenberg C. (2004): Aquatic bryophytes as pollutant accumulators and ecophysiological bioindicators of stress: bibliographic synthesis. – *Cryptogamie Bryologie* 25: 205–248.
- Ah-Peng C., Rausch de Traubenberg C. & Denayer F. O. (2003): Use of a moss culture as bioaccumulator for the biomonitoring of metal contamination in continental waters. – *Journal de Physique IV* 107: 25–28.
- Akita M. & Valkonen J. P. T. (2002): A novel gene family in moss (*Physcomitrella patens*) shows sequence homology and a phylogenetic relationship with the TIR-NBS class of plant disease resistance genes. – *Journal of Molecular Evolution* 55: 595–605.
- Aldous A. R. (2002): Nitrogen translocation in *Sphagnum* mosses: effects of atmospheric nitrogen deposition. – *New Phytologist* 156: 241–253.

- Allen B. (ed.) (2002): Moss flora of Central America. Part 2. *Encalyptaceae–Orthotrichaceae*. – Monographs in Systematic Botany from the Missouri Botanical Garden 90. Missouri Botanical Garden Press, St. Louis, USA. [viii + 699 pp.]
- Amblard-Gross G., Ferard J. F., Carrot F., Bonnin-Mosbah M., Maul S., Ducruet J. M., Coddeville P., Beguinel P. & Ayrault S. (2002): Biological fluxes conversion and SXRF experiment with a new active biomonitoring tool for atmospheric metals and trace element deposition. – *Environmental Pollution* 120: 47–58.
- Andrew N. R., Rodgerson L. & Dunlop M. (2003): Variation in invertebrate-bryophyte community structure at different spatial scales along altitudinal gradients. – *Journal of Biogeography* 30: 731–746.
- Arikawa T. & Higuchi M. (2003): Preliminary application of *psaB* sequence data to the phylogenetic analysis of pleurocarpous mosses. – *Hikobia* 14: 33–44.
- Arikawa T. & Higuchi M. (2003): Preliminary phylogenetic analysis of *Pylaisia* (*Hypnaceae*, *Musci*) and its relatives based on *rbcL* gene sequences. – *Journal of the Hattori Botanical Laboratory* 95: 87–106.
- Arikawa T. (2004): A taxonomic study of the genus *Pylaisia* (*Hypnaceae*, *Musci*). – *Journal of the Hattori Botanical Laboratory* 95: 71–154.
- Arróniz-Crespo M., Núñez-Olivera E., Martínez-Abaigar J. & Tomás R. (2004): A survey of the distribution of UV-absorbing compounds in aquatic bryophytes from a mountain stream. – *Bryologist* 107: 202–208.
- Asada T. & Warner B. G. (2003): Growth of mosses in relation to climate factors in a hypermaritime coastal peatland in British Columbia, Canada. – *Bryologist* 106: 516–527.
- Asakawa Y. (2004): Chemosystematics of the *Hepaticae*. – *Phytochemistry* 65: 623–669.
- Asta J., Guillard E., Tissut M., Gaude T. & Ravanel P. (2003): Heavy metal transfer from atmosphere to plants. – *Journal de Physique IV* 107: 65–67.
- Asthana G. & Srivastava S. C. (2003): Indian *Cololejeunea*. A taxonomic study. – *Bryophytorum Bibliotheca* 60: 1–155.
- Ayrault S., Clocchiatti R., Carrot F., Michel A., Gaudry A. & Moskura M. (2003): Heavy metal atmospheric deposition and biomonitoring. – *Journal de Physique IV* 107: 1417–1417.
- Ayrault S., Galsomies L., Amblard G., Sciarretta M. D., Bonhomme P. & Gaudry A. (2002): Instrumental neutron activation analysis (INAA) and inductively coupled plasma/mass spectrometry (ICP-MS) for trace element biomonitoring using mosses. – *International Journal of Environmental Analytical Chemistry* 82: 463–473.
- Bachurina G. F. & Mel'nychuk V. M. (2003): Flora Mokhiv Ukraïny. Vol. 4. *Isobryales*, *Hookeriales*, *Hypnobryales*. – *Natsional'na Akademiya Nauk Ukraïny, Kiev*. [255 pp.]
- Bączkiewicz A., Buczkowska K. & Lembicz M. (2003): Isoenzyme markers of two hepatic species: *Barbilophozia lycopodioides* (Wallr.) Loeske, and *B. hatcheri* (A. Evans) Loeske. – *Acta Societatis Botanicorum Poloniae* 72: 121–124.
- Bakalin V. A. (2003): Notes on *Lophozia*. II. On *Lophozia rufescens* Schljakov and *Lophozia sudetica* (Huebener) Grolle var. *anomala* (Schljakov) Schljakov with notes on allied taxa. – *Lindbergia* 28: 75–79.
- Barale G. & Ouaja M. (2002): Floristic biodiversity of the upper-Jurassic-lower cretaceous deposits in Merbah El Asfer (Southern Tunisia). – *Cretaceous Research* 23: 707–737.
- Bardat J. & Hauguel J. C. (2002): Synopsis of the bryophytic communities for France. – *Cryptogamie Bryologie* 23: 279–343.
- Bardat J. & Hugonnot V. (2002): Conspectus of the flora and vegetation of bryophytes of Narces d'Issanlas (Ardèche, France), unique evidence of a humid zone of mid-elevation vegetation. – *Cryptogamie Bryologie* 23: 51–72.
- Bardat J. & Hugonnot V. (2002): The communities of *Dicranum viride* (Sull. & Lesq.) Lindb. in France (in French). – *Cryptogamie Bryologie* 23: 123–147.
- Bargagli R., Monaci F., Borghini F., Bravi F. & Agnorelli C. (2002): Mosses and lichens as biomonitors of trace metals. A comparison study on *Hypnum cupressiforme* and *Parmelia caperata* in a former mining district in Italy. – *Environmental Pollution* 116: 279–287.
- Basile A., Sorbo S., Lopez-Saez J. A. & Cobianchi R. C. (2003): Effects of seven pure flavonoids from mosses on germination and growth of *Tortula muralis* Hedw. (*Bryophyta*) and *Raphanus sativus* L. (*Magnoliophyta*). – *Phytochemistry* 62: 1145–1151.
- Basiliko N., Knowles R. & Moore T. R. (2004): Roles of moss species and habitat in methane consumption potential in a northern peatland. – *Wetlands* 24: 178–185.

- Bates J. W., Roy D. B. & Preston C. D. (2004): Occurrence of epiphytic bryophytes in a 'tetrad' transect across southern Britain. 2. Analysis and modelling of epiphyte-environment relationships. – *Journal of Bryology* 26: 181–197.
- Batra A., Binding H., Rasmussen S., Rudolph H. & Waetzig G. H. (2003): Efficient regeneration of *Sphagnum fallax* from isolated protoplasts. – *In Vitro Cellular and Developmental Biology – Plant* 39: 147–150.
- Benito B. & Rodriguez-Navarro A. (2003): Molecular cloning and characterization of a sodium-pump ATPase of the moss *Physcomitrella patens*. – *Plant Journal* 36: 382–389.
- Berestovskaya Y. Y., Vasil'eva L. V., Chestnykh O. V. & Zavarzin G. A. (2002): Methanotrophs of the psychrophilic microbial community of the Russian Arctic Tundra. – *Microbiology* 71: 460–466.
- Berg Å., Gårdenfors U., Hallingbäck T. & Norén M. (2002): Habitat preferences of red-listed fungi and bryophytes in woodland key habitats in southern Sweden - analyses of data from a national survey. – *Biodiversity and Conservation* 11: 1479–1503.
- Bergamini A. & Peintinger M. (2002): Effects of light and nitrogen on morphological plasticity of the moss *Calliergonella cuspidata*. – *Oikos* 96: 355–363.
- Bergamini A., Pauli D., Peintinger M. & Schmid B. (2001): Relationships between productivity, number of shoots and number of species in bryophytes and vascular plants. – *Journal of Ecology* 89: 920–929.
- Bertrand J., Renon J. P., Monnier O. & Ector L. (2004): Relationship "epiphytic diatoms-Bryophytes" at Mount Lozère (France) peat bogs. – *Vie et Milieu – Life and Environment* 54: 59–70.
- Bharali B. & Bates J. W. (2002): Soil cations influence bryophyte susceptibility to bisulfite. – *Annals of Botany* 90: 337–343.
- Bharali B. & Bates J. W. (2004): Influences of extracellular calcium and iron on membrane sensitivity to bisulphite in the mosses *Pleurozium schreberi* and *Rhytidiadelphus triquetrus*. – *Journal of Bryology* 26: 53–59.
- Bierfreund N. M., Reski R. & Decker E. L. (2003): Use of an inducible reporter gene system for the analysis of auxin distribution in the moss *Physcomitrella patens*. – *Plant Cell Reports* 21: 1143–1152.
- Bijelović A., Sabovljević M., Grubišić D. & Konjević R. (2004): Phytohormone influence on the morphogenesis of two mosses (*Bryum argenteum* Hedw. and *Atrichum undulatum* (Hedw.) P. Beauv.). – *Israel Journal of Plant Sciences* 52: 31–36.
- Bisang I. (2003): Population development, demographic structure, and life cycle aspects of two hornworts in Switzerland. – *Lindbergia* 28: 105–112.
- Bisang I., Ehrlén J. & Hedenäs L. (2004): Mate limited reproductive success in two dioicous mosses. – *Oikos* 104: 291–298.
- Bischler H. (2002): Species-environment relationships and diversity of liverworts in Israel. – *Israel Journal of Plant Sciences* 50, supplement: 15–23.
- Bischler H. (2004): Liverworts of the Mediterranean. Ecology, diversity and distribution. – *Bryophytorum Bibliotheca* 61: 1–252.
- Blackwell W. H. (2003): Two theories of origin of the land-plant sporophyte: which is left standing? – *Botanical Review* 69: 125–148.
- Blocher R. & Capesius I. (2002): The systematic position of the *Hypopterygiaceae* (*Bryopsida*) inferred from *rps4* gene sequences. – *Cryptogamie Bryologie* 23: 191–207.
- Bragazza L. & Gerdol R. (2002): Are nutrient availability and acidity-alkalinity gradients related in *Sphagnum*-dominated peatlands? – *Journal of Vegetation Science* 13: 473–482.
- Bridgham S. D. (2002): Nitrogen, translocation and *Sphagnum* mosses. – *New Phytologist* 156: 140–141.
- Brugués M., Muñoz J., Ruiz R. E. & Heras P. (2004): *Sphagnaceae: Sphagnum*. – In: *Flora briofítica Ibérica*, Vol. 12, p. 1–79, Sociedad Española de Briología, Murcia.
- Buczowska K. (2004): Genetic differentiation of *Calypogeia fissa* Raddi (*Hepaticae, Jungermanniales*) in Poland. – *Plant Systematics and Evolution* 247: 187–201.
- Buczowska K. (2004): The genus *Calypogeia* Raddi (*Jungermanniales, Hepaticae*) in Poland, biometrical analysis of morphological and anatomical variation. – *Nova Hedwigia* 78: 121–146.
- Buczowska K., Odrzykoski I. J. & Chudzińska E. (2004): Delimitation of some European species of *Calypogeia* Raddi (*Jungermanniales, Hepaticae*) based on cytological characters and multienzyme phenotype. – *Nova Hedwigia* 78: 147–163.
- Burch J. & Wilkinson T. (2002): Cryopreservation of protonemata of *Ditrichum cornubicum* (Paton) comparing the effectiveness of four cryoprotectant pretreatments. – *Cryoletters* 23: 197–208.

- Burch J. (2003): Some mosses survive cryopreservation without prior pretreatment. – *Bryologist* 106: 270–277.
- Buryová B. (2004): Genetic variation in two closely related species of *Philonotis* based on isozymes. – *Bryologist* 107: 316–327.
- Campbell D. R., Rochefort L. & Lavoie C. (2003): Determining the immigration potential of plants colonizing disturbed environments: the case of milled peatlands in Quebec. – *Journal of Applied Ecology* 40: 78–91.
- Cano M. J. (2004): *Pottiaceae: Hennediella, Tortula*. – In: Flora briofítica Ibérica, Vol. 4, p. 5–32, Sociedad Española de Briología, Murcia.
- Cano M. J. & Gallego M. T. (2003): Lectotypification of twenty names of taxa referable to *Tortula* Hedw. (*Pottiaceae, Bryophyta*). – *Taxon* 52: 611–618.
- Carafa A., Duckett J. G. & Ligrone R. (2003): Subterranean gametophytic axes in the primitive liverwort *Haplomitrium* harbour a unique type of endophytic association with aseptate fungi. – *New Phytologist* 160: 185–197.
- Carafa A., Duckett J. G. & Ligrone R. (2003): The placenta in *Monoclea forsteri* Hook. and *Treubia lacunosa* (Col.) Prosk: Insights into placental evolution in liverworts. – *Annals of Botany* 92: 299–307.
- Carrigan C. & Gibson M. (2003): Comparative sexuality of conspecific stream-side and stream rock mosses. – *Hikobia* 14: 71–74.
- Casas C., Brugés M. & Cros R. M. (2003): Flora dels briòfits dels Països Catalans, Vol. I. Mosses. 2. ed. – Institut d'Estudis Catalans, Barcelona. [278 pp.]
- Chang S. C., Lai I. L., Wu J. T. (2002): Estimation of fog deposition on epiphytic bryophytes in a subtropical montane forest ecosystem in northeastern Taiwan. – *Atmospheric Research* 64: 159–167.
- Chien G., Crosby M. & He S. (1999): Moss flora of China, English version, Vol. 1: *Sphagnaceae* through *Leucobryaceae*. – Missouri Botanical Garden Press, St. Louis, U. S. A. [273 pp.]
- Chien G., Crosby M. & He S. (2003): Moss flora of China, English version, Vol. 3: *Grimmiaceae* through *Tetraphidaceae*. – Missouri Botanical Garden Press, St. Louis, U. S. A. [149 pp.]
- Chuah-Petiot M. S. (2003): Mosses, liverworts & hornworts of Kenya. – Publ. by Min S. Chuah-Petiot, Nairobi. [273 pp.]
- Conde-Álvarez R. M., Pérez-Rodríguez E., Altamirano M., Nieto J. M., Abdala R., Figueroa F. L. & Flores-Moya A. (2002): Photosynthetic performance and pigment content in the aquatic liverwort *Riella helicophylla* under natural solar irradiance and solar irradiance without ultraviolet light. – *Aquatic Botany* 73: 47–61.
- Couto J. A., Fernandez J. A., Aboal J. R. & Carballeira A. (2003): Annual variability in heavy-metal bioconcentration in moss: sampling protocol optimization. – *Atmospheric Environment* 37: 3517–3527.
- Couto J. A., Fernandez J. A., Aboal J. R. & Carballeira A. (2004): Active biomonitoring of element uptake with terrestrial mosses: a comparison of bulk and dry deposition. – *Science of the Total Environment* 324: 211–222.
- Cox C. J., Goffinet B., Shaw A. J. & Boles S. (2004): Phylogenetic relationships among the mosses based on heterogeneous Bayesian analysis of multiple genes from multiple genomic compartments. – *Systematic Botany* 29: 234–250.
- Crandall-Stotler B. J., Stotler R. E. & Ford C. H. (2002): Contributions toward a monograph of *Petalophyllum* (*Marchantiophyta*). – *Novon* 12: 334–337. [correction: *Novon* 13: 159]
- Cronberg N. & Natcheva R. (2002): Hybridization between the peat mosses, *Sphagnum capillifolium* and *S. quinquefarium* (*Sphagnaceae, Bryophyta*) as inferred by morphological characters and isozyme markers. – *Plant Systematics and Evolution* 234: 53–70.
- Cronberg N. (2002): Colonization dynamics of the clonal moss *Hylocomium splendens* on islands in a Baltic land uplift area: reproduction, genet distribution and genetic variation. – *Journal of Ecology* 90: 925–935.
- Cronberg N. (2004): Genetic differentiation between populations of the moss *Hylocomium splendens* from low versus high elevation in the Scandinavian mountain range. – *Lindbergia* 29: 64–72.
- Cros R. M. & Sérgio C. (2003): *Andreaeaceae: Andreaea*. – In: Flora briofítica Ibérica. Vol. 13, p. 5–21, Sociedad Española de Briología, Murcia.
- Culicov O. A., Frontasyeva M. V., Steinnes E., Okina O. S., Santa Zs. & Todoran R. (2002): Atmospheric deposition of heavy metals around the lead and copper-zinc smelters in Baia Mare, Romania, studied by the moss biomonitoring technique, neutron activation analysis and flame atomic absorption spectrometry. – *Journal of Radioanalytical and Nuclear Chemistry* 254: 109–115.

- Damsholt K. (2003): Illustrated flora of Nordic liverworts and hornworts. – Nordisk Bryologisk Förening, Lund. [837 pp.]
- Davis E. C., Franklin J. B., Shaw A. J. & Vilgalys R. (2003): Endophytic *Xylaria* (*Xylariaceae*) among liverworts and angiosperms: Phylogenetics, distribution, and symbiosis. – American Journal of Botany 90: 1661–1667.
- de Winton M. D. & Beever J. E. (2004): Deep-water bryophyte records from New Zealand lakes. – New Zealand Journal of Marine and Freshwater Research 38: 329–340.
- Delach A. & Kimmerer R. W. (2002): The effect of *Polytrichum piliferum* on seed germination and establishment on iron mine tailings in New York. – Bryologist 105: 249–255.
- Delepee R., Pouliquen H. & Le Bris H. (2004): Bryophyte *Fontinalis antipyretica* Hedw. bioaccumulates oxytetracycline, flumequine and oxolinic acid in the freshwater environment. – Science of the Total Environment 322: 243–253.
- Delgadillo C., Rios M. J. L. V. & Aranda P. D. (2003): Endemism in the Mexican flora: A comparative study in three plant groups. – Annals of the Missouri Botanical Garden 90: 25–34.
- DeLucia E. H., Turnbull M. H., Walcroft A. S., Griffin K. L., Tissue D. T., Glenn D., McSeveny T. M. & Whitehead D. (2003): The contribution of bryophytes to the carbon exchange for a temperate rainforest. – Global Change Biology 9: 1158–1170.
- Despots M., Desrochers A., Bélanger L. & Huot J. (2002): Structure de sapinières aménagées et anciennes du massif des Laurentides (Québec) et diversité des plantes vasculaires. – Canadian Journal of Forest Research – Revue Canadienne de Recherche Forestière 32: 2077–2093.
- Diehl B. (2003): Untersuchungen zur Moosflora im Grossschutzbiet Steinbachtal-Netzbachtal (Saarland). – Limprichtia 23: 1–181.
- Dombrowska E. & Qiu Y. L. (2004): Distribution of introns in the mitochondrial gene *nad1* in land plants: phylogenetic and molecular evolutionary implications. – Molecular Phylogenetics and Evolution 32: 246–263.
- Dong W., Li W., Guo G. Q. & Zheng G. C. (2004): Ultrastructural aspects of plasmodesmata and cytoplasmic bridges during spermatogenesis in *Funaria hygrometrica*. – Acta Botanica Sinica 46: 988–996.
- Dorrepaal E., Aerts R., Cornelissen J. H. C., Callaghan T. V. & van Logtestijn R. S. P. (2004): Summer warming and increased winter snow cover affect *Sphagnum fuscum* growth, structure and production in a sub-arctic bog. – Global Change Biology 10: 93–104.
- Downes B. J., Entwisle T. J. & Reich P. (2003): Effects of flow regulation on disturbance frequencies and in-channel bryophytes and macroalgae in some upland streams. – River Research and Applications 19: 27–42.
- Dragović S., Nedić O., Stanković S. & Bačić G. (2004): Radiocesium accumulation in mosses from highlands of Serbia and Montenegro: chemical and physiological aspects. – Journal of Environmental Radioactivity 77: 381–388.
- Draper D., Rosselló-Graell A., Garcia C., Gomes C. T. & Sérgio C. (2003): Application of GIS in plant conservation programmes in Portugal. – Biological Conservation 113: 337–349.
- Drexler J. Z. & Bedford B. L. (2002): Pathways of nutrient loading and impacts on plant diversity in a New York peatland. – Wetlands 22: 263–281.
- Duckett J. G. & Pressel S. (2003): Studies of protonemal morphogenesis in mosses. IX. *Disclium nudum*: exquisite pioneer of unstable clay banks. – Journal of Bryology 25: 241–245.
- Duckett J. G., Burch J., Fletcher P. W., Matcham H. W., Read D. J., Russell A. J. & Pressel S. (2004): In vitro cultivation of bryophytes: a review of practicalities, problems, progress and promise. – Journal of Bryology 26: 3–20.
- Ederra A. (2004): *Pottiaceae: Eucladium*. – In: Flora briofítica Ibérica, Vol. 8, p. 5–7, Sociedad Española de Briología, Murcia.
- Edwards D. (2003): Xylem in early tracheophytes. – Plant Cell and Environment 26: 57–72.
- Ellyson W. J. T. & Sillett S. C. (2003): Epiphyte communities on Sitka spruce in an old-growth redwood forest. – Bryologist 106: 197–211.
- Epstein H. E., Calef M. P., Walker M. D., Chapin F. S. & Starfield A. M. (2004): Detecting changes in arctic tundra plant communities in response to warming over decadal time scales. – Global Change Biology 10: 1325–1334.

- Erdağ A., Kürschner H. & Parolly G. (2004): *Orthotrichum leblebicii* sp. nov. (*Orthotrichaceae*, *Bryopsida*), and two further new epiphytic *Orthotrichum* records from southern Turkey. – *Nova Hedwigia* 78: 517–526.
- Ermakova E. V., Frontasyeva M. V. & Steinnes E. (2004): Air pollution studies in Central Russia (Tula Region) using the moss biomonitoring technique, INAA and AAS. – *Journal of Radioanalytical and Nuclear Chemistry* 259: 51–58.
- Erzberger P. & Papp B. (2004): Annotated checklist of Hungarian bryophytes. – *Studia Botanica Hungarica* 35: 91–149.
- Faimon J., Štelcl J., Kubešová S. & Zimák J. (2003): Environmentally acceptable effect of hydrogen peroxide on cave “lamp-flora”, calcite speleothems and limestones. – *Environmental Pollution* 122: 417–422.
- Farmer J. G., Eades L. J., Atkins H. & Chamberlain D. F. (2002): Historical trends in the lead isotopic composition of archival *Sphagnum* mosses from Scotland (1838 – 2000). – *Environmental Science & Technology* 36: 152–157.
- Fenton N. J., Frego K. A. & Sims M. R. (2003): Changes in forest floor bryophyte (moss and liverwort) communities 4 years after forest harvest. – *Canadian Journal of Botany – Revue Canadienne de Botanique* 81: 714–731.
- Fernández J. A. & Carballeira A. (2002): Biomonitoring metal deposition in Galicia (NW Spain) with mosses: factors affecting bioconcentration. – *Chemosphere* 46: 535–542.
- Fernández J. A., Aboal J. R. & Carballeira A. (2004): Identification of pollution sources by means of moss bags. – *Ecotoxicology and Environmental Safety* 59: 76–83.
- Fernández J. A., Aboal J. R., Couto J. A. & Carballeira A. (2004): Moss bioconcentration of trace elements around a FeSi smelter: modelling and cellular distribution. – *Atmospheric Environment* 38: 4319–4329.
- Fernández J. A., Ederra A., Núñez E., Martínez-Abaigar J., Infante M., Heras R., Elías M. J., Mazimpaka V. & Carballeira A. (2002): Biomonitoring of metal deposition in northern Spain by moss analysis. – *Science of the Total Environment* 300: 115–127.
- Figueira R., Sérgio C. & Sousa A. J. (2002): Distribution of trace metals in moss biomonitors and assessment of contamination sources in Portugal. – *Environmental Pollution* 118: 153–163.
- Fischer A., Lindner M., Abs C. & Lasch P. (2002): Vegetation dynamics in central European forest ecosystems (near-natural as well as managed) after storm events. – *Folia Geobotanica* 37: 17–32.
- Frahm J.-P. & Ahmed J. (2004): *Barbula sardoa* (Schimp.) J.-P. Frahm, a new name for *Barbula convoluta* Hedw. var. *commutata* (Jur.) Husn. – *Journal of Bryology* 26: 29–35. [Correction: *Journal of Bryology* 26: 244]
- Frahm J.-P. & Frey W. (2003): *Moosflora*, 4th ed. – Verlag Eugen Ulmer, Stuttgart. [538 pp.]
- Frahm J.-P. (2004): Eine einfache Methode zur Bestimmung der Umweltqualität eines Gebietes mit Hilfe epiphytischer Moose. – *Limprichtia* 24: 61–65.
- Frahm J.-P. (2004): New frontiers in bryology and lichenology – Recent developments of commercial products from bryophytes. – *Bryologist* 107: 277–283.
- Frank A., Danielsson R. & Selinus O. (2004): Comparison of two monitoring systems for Cu and Mo in the Swedish environment. – *Science of the Total Environment* 330: 131–143.
- Fransén S. (2004): A taxonomic revision of extra-Neotropical *Bartramia* section *Vaginella* C. Müll. – *Lindbergia* 29: 73–107.
- Fransén S. (2004): A taxonomic revision of *Bartramia* Hedw. section *Bartramia*. – *Lindbergia* 29: 113–122.
- Frontasyeva M. V., Smirnov L. I., Steinnes E., Lyapunov S. M. & Cherchintsev V. D. (2004): Heavy metal atmospheric deposition study in the South Ural Mountains. – *Journal of Radioanalytical and Nuclear Chemistry* 259: 19–26.
- Fuselier L. & McLetchie D. N. (2004): Microhabitat and sex distribution in *Marchantia inflexa*, a dioicous liverwort. – *Bryologist* 107: 345–356.
- Fuselier L. & McLetchie N. (2003): Maintenance of sexually dimorphic preadult traits in *Marchantia inflexa* (*Marchantiaceae*). – *American Journal of Botany* 89: 592–601.
- Gabriel R. & Bates J. W. (2003): Responses of photosynthesis to irradiance in bryophytes of the Azores laurel forest. – *Journal of Bryology* 25: 101–105.
- Gallego M. T., Cano M. J. & Guerra J. (2004): A taxonomic study of *Syntrichia laevipila* (*Pottiaceae*, *Musci*) complex. – *Botanical Journal of the Linnean Society* 145: 219–230.

- Gallego M. T., Cano M. J., Ros R. M. & Guerra J. (2002): An overview of *Syntrichia ruralis* complex (*Pottiaceae: Musci*) in the Mediterranean region and neighbouring areas. – *Botanical Journal of the Linnean Society* 138: 209–224.
- Gallego M. T., Cano M. J., Ros R. M. & Guerra J. (2002): New taxonomic data on a circum-tethyan group of *Syntrichia* (*Pottiaceae, Bryophyta*): the *S. caninervis* complex. – *Systematic Botany* 27: 643–653.
- Gallego M. T., Jiménez J. A. & Guerra J. (2004): *Tetrastichium virens* with sporophytes in mainland Europe: an SEM study. – *Journal of Bryology* 26: 224–226.
- Galsomies L., Ayrault S., Carrot F., Deschamps C. & Letrouit-Galinou M. A. (2003): Interspecies calibration in mosses at regional scale – heavy metal and trace elements results from Ile-de-France. – *Atmospheric Environment* 37: 241–251.
- Ganeva A. & Natcheva R. (2003): Check-list of the bryophytes of Bulgaria with data on their distribution. I. *Hepaticae* and *Anthocerotae*. – *Cryptogamie Bryologie* 24: 229–239.
- Garilleti R., Lara F. & Mazimpaka V. (2002): New differential characters for *Orthotrichum rogeri* Brid. (*Orthotrichaceae, Bryopsida*). – *Nova Hedwigia* 75: 207–216.
- Gerdol R., Bragazza L. & Marchesini R. (2002): Element concentrations in the forest moss *Hylocomium splendens*: variation associated with altitude, net primary production and soil chemistry. – *Environmental Pollution* 116: 129–135.
- Gerdol R., Bragazza L., Marchesini R., Medici A., Pedrini P., Benedetti S., Bovolenta A. & Coppi S. (2002): Use of moss (*Tortula muralis* Hedw.) for monitoring organic and inorganic air pollution in urban and rural sites in Northern Italy. – *Atmospheric Environment* 36: 4069–4075.
- Giordano S., Basile A., Spagnuolo V., Reza N. & Cobiانchi R. C. (2002): Modulation of protonemal morphogenesis in *Bryum capillare* and *Pleurochaete squarrosa*: a comparison with the *Funaria hygrometrica* model system. – *Plant Biosystems* 136: 101–107.
- Giordano S., Sorbo S., Adamo P., Basile A., Spagnuolo V. & Cobiانchi R. C. (2004): Biodiversity and trace element content of epiphytic bryophytes in urban and extraurban sites of southern Italy. – *Plant Ecology* 170: 1–14.
- Gjerde I., Sætersdal M., Rolstad J., Blom H. H. & Storaunet K. O. (2004): Fine-scale diversity and rarity hotspots in northern forests. – *Conservation Biology* 18: 1032–1042.
- Goffinet B. & Shaw A. J. (2002): Independent origins of cleistocarpy in the *Splachnaceae*: Analyses of cpDNA sequences and polyphyly of the *Voitioideae* (*Bryophyta*). – *Systematic Botany* 27: 203–208.
- Goffinet B. (2003): Bibliography of systematic and population genetic studies of Bryophytes based on DNA data. II. – *Cryptogamie Bryologie* 24: 181–185.
- Goffinet B., Hollowell V. & Magill R. (eds.) (2004): *Molecular systematics of bryophytes: progress, problems and perspectives*. – *Monographs in Systematic Botany* 98, Missouri Botanical Garden Press, St. Louis, U. S. A. [xviii + 448 pp.]
- Goffinet B., Shaw A. J. & Cox C. J. (2004): Phylogenetic inferences in the dung-moss family *Splachnaceae* from analyses of cpDNA sequence data and implications for the evolution of entomophily. – *American Journal of Botany* 91: 748–759.
- Goia I. & Schumacker R. (2003): The study of corticolous bryophyte communities from the Arieșul Mic Basin (Romania). – *Contribuții Botanice* 38: 57–67.
- Gombert S., Losno R., Leblond S. & Rausch de Traubenberg C. (2003): French spatial distribution of lead (Pb) and iron (Fe) using mosses as biomonitors. – *Journal de Physique IV* 107: 553–556.
- González-Mancebo J. M., Losada Lima A. & Patiño Llorente J. (2004): Forest floor bryophytes of laurel forest in Gomera (Canary Islands): Life strategies and influence of the tree species. – *Lindbergia* 29: 5–16
- González-Mancebo J. M., Losada-Lima A. & McAlister S. (2003): Host specificity of epiphytic bryophyte communities of a laurel forest on Tenerife (Canary Islands, Spain). – *Bryologist* 106: 383–394.
- Gradstein S. R., Meneses Q. I. M. & Arbe B. A. (2003): Catalogue of the *Hepaticae* and *Anthocerotae* of Bolivia. – *Journal of the Hattori Botanical Laboratory* 93: 1–67.
- Gradstein S. R., Reiner-Drehwald M. E. & Schneider H. (2003): A phylogenetic analysis of the genera of *Lejeuneaceae* (*Hepaticae*). – *Botanical Journal of the Linnean Society* 143: 391–410.
- Graham L. E., Wilcox L. W., Cook M. E. & Gensel P. G. (2004): Resistant tissues of modern marchantioid liverworts resemble enigmatic Early Paleozoic microfossils. – *Proceedings of the National Academy of Sciences of the United States of America* 101: 11025–11029.
- Greilhuber J., Sæstad S. M. & Flatberg K. I. (2003): Ploidy determination in *Sphagnum* samples from Svalbard, Arctic Norway, by DNA image cytometry. – *Journal of Bryology* 25: 235–239.

- Greven H. & Schuttler L. (2001): How to crawl and dehydrate on moss. – *Zoologischer Anzeiger* 240: 341–344.
- Greven H. (2003): *Grimmias of the World*. – Backhuys Publisher, Leiden. [247 p. + CD-ROM]
- Grimalt J. O., Borghini F., Sanchez-Hernandez J. C., Barra R., García C. J. T. & Focardi S. (2004): Temperature dependence of the distribution of organochlorine compounds in the mosses of the Andean mountains. – *Environmental Science & Technology* 38: 5386–5392.
- Griselli B., Bari A., Magnoni M., Bertino S., Isocrono D. & Piervittori R. (2003): Biomonitoring in the evaluation of human impact: use of lichen biodiversity, and moss accumulation of radioisotopes in an Alpine valley (Valle Orco, Piedmont, Italy). – *Plant Biosystems* 137: 35–46.
- Grodzińska K., Frontasyeva M., Szarek-Lukaszewska G., Klich M., Kucharska-Fabiś A., Gundorina S. F. & Ostrovnyaya T. M. (2003): Trace element contamination in industrial regions of Poland studied by moss monitoring. – *Environmental Monitoring and Assessment* 87: 255–270.
- Grolle R. & Heinrichs J. (2003): Eocene *Plagiochila groehnii* sp. nov. – the first representative of *Plagiochilaceae* in Baltic amber. – *Cryptogamie Bryologie* 24: 289–293.
- Grolle R. & So M. L. (2003): *Riccia fruticulosa* O.F.Müll., 1782 and blue *Metzgeria (Marchantiophyta)* in Europe. – *Botanical Journal of the Linnean Society* 142: 229–235.
- Groth H., Lindner M., Wilson R., Hartmann F. A., Schull M., Gradstein S. R. & Heinrichs J. (2003): Biogeography of *Plagiochila (Hepaticae)*: natural species groups span several floristic kingdoms. – *Journal of Biogeography* 30: 965–978.
- Groth-Malonek M., Heinrichs J., Schneider H. & Gradstein S. R. (2004): Phylogenetic relationships in the *Lejeuneaceae (Hepaticae)* inferred using ITS sequences of nuclear ribosomal DNA. – *Organisms Diversity & Evolution* 4: 51–57.
- Guerra J. (2004): *Pottiaceae: Gymnostomum, Gyroweisia, Hymenostylium, Leptobarbula*. – In: *Flora briofítica Ibérica*, Vol. 8, p. 7–22, Sociedad Española de Briología, Murcia.
- Guerra J., Pérez-Latorre A. V., Cano M. J., Gallego M. T. & Cabezudo B. (2004): Ecological behaviour of *Sphagnum denticulatum* in the Thermo-Mediterranean belt of Southern Iberian Peninsula. – *Nova Hedwigia* 78: 165–178.
- Gunnarsson U., Malmer N. & Rydin H. (2002): Dynamics or constancy in *Sphagnum* dominated mire ecosystems? A 40-year study. – *Ecography* 25: 685–704.
- Guschina I. A. & Harwood J. L. (2002): Lipid metabolism in the moss *Rhytidiadelphus squarrosus* (Hedw.) Warnst. from lead-contaminated and non-contaminated populations. – *Journal of Experimental Botany* 53: 455–463.
- Guschina I. A., Dobson G. & Harwood J. L. (2002): Lipid metabolism in the moss *Dicranum scoparium*: effect of light conditions and heavy metals on the accumulation of acetylenic triacylglycerols. – *Physiologia Plantarum* 116: 441–450.
- Guschina I. A., Harwood J. L., Smith M. & Beckett R. P. (2002): Abscisic acid modifies the changes in lipids brought about by water stress in the moss *Atrichum androgynum*. – *New Phytologist* 156: 255–264.
- Gustafsson L. (2002): Presence and abundance of red-listed plant species in Swedish forests. – *Conservation Biology* 16: 377–388.
- Gustafsson L., Appelgren L., Jonsson F., Nordin U., Persson A. & Weslien J. O. (2004): High occurrence of red-listed bryophytes and lichens in mature managed forests in boreal Sweden. – *Basic and Applied Ecology* 5: 123–129.
- Gustafsson L., Hylander K. & Jacobson C. (2004): Uncommon bryophytes in Swedish forests – key habitats and production forests compared. – *Forest Ecology and Management* 194: 11–22.
- Hájek M., Hekera P. & Hájková P. (2002): Spring fen vegetation and water chemistry in the Western Carpathian flysch zone. – *Folia Geobotanica* 37: 205–224.
- Hájková P. & Hájek M. (2004): *Sphagnum*-mediated successional pattern in the mixed mire in the Muránska planina Mts (Western Carpathians, Slovakia). – *Biologia* 59: 65–74.
- Hamerlynck E. P., Csintalan Z., Nagy Z., Tuba Z., Goodin D. & Henebry G. M. (2002): Ecophysiological consequences of contrasting microenvironments on the desiccation tolerant moss *Tortula ruralis*. – *Oecologia* 131: 498–505.
- Haraguchi A., Hasegawa T., Iyobe T. & Nishijima H. (2003): The pH dependence of photosynthesis and elongation of *Sphagnum squarrosum* and *S. girgensohnii* in the *Picea glehnii* mire forest in Cape Ochiishi, north-eastern Japan. – *Aquatic Ecology* 37: 101–104.

- Harrer R. (2003): Associations between light-harvesting complexes and Photosystem II from *Marchantia polymorpha* L. determined by two- and three-dimensional electron microscopy. – *Photosynthesis Research* 75: 249–258.
- Hassel K. & Gunnarsson U. (2003): The use of inter simple sequence repeats (SIRS) in bryophyte population studies. – *Lindbergia* 28: 152–157.
- He X. L. & Piippo S. (2003): Phylogenetic relationships of the generic complex *Chiloscyphus–Lophocolea–Heteroscyphus* (*Geocalyceaceae*, *Hepaticae*): Insights from three chloroplast genes. – *Cladistics* 19: 153–153.
- Hedderson T. A., Murray D. J., Cox C. J. & Nowell T. L. (2004): Phylogenetic relationships of haplolepidous mosses (*Dicranidae*) inferred from *rps4* gene sequences. – *Systematic Botany* 29: 29–41.
- Hedenäs L. & Bennike O. (2003): Moss remains from the last interglacial at Thule, NW Greenland. – *Lindbergia* 28: 52–58.
- Hedenäs L. & Kooijman A. (2004): Habitat differentiation within *Palustriella*. – *Lindbergia* 29: 40–50.
- Hedenäs L. (2002): An overview of the family *Brachytheciaceae* (*Bryophyta*) in Australia. – *Journal of the Hattori Botanical Laboratory*: 51–90.
- Hedenäs L. (2003): *Amblystegiaceae* (*Musci*). – *Flora Neotropica Monographs* 89: 1–107.
- Hedenäs L. (2003): The European species of the *Calliargon–Scorpidium–Drepanocladus* complex, including some related or similar species. – *Meylania* 28: 1–116.
- Hedenäs L. (2004): Morphological and anatomical evidence suggest that ‘*Hylocomiaceae*’ taxa belong to at least two clades. – *Journal of Bryology* 26: 125–135.
- Hedenäs L., Bisang I. & Schnyder N. (2003): The distribution of bryophytes in Switzerland and Liechtenstein. IV. *Hamatocaulis* and *Pseudocalliargon*. – *Botanica Helvetica* 113: 111–123.
- Hedenäs L., Bisang I., Tehler A., Hamnede M., Jaederfelt K. & Odolvik G. (2002): A herbarium-based method for estimates of temporal frequency changes: mosses in Sweden. – *Biological Conservation* 105: 321–331.
- Heijmans M. M. P. D., Arp W. J. & Chapin F. S. (2004): Controls on moss evaporation in a boreal black spruce forest. – *Global Biogeochemical Cycles* 18: art. No. Gb2004.
- Heijmans M. M. P. D., Klees H. & Berendse F. (2002): Competition between *Sphagnum magellanicum* and *Eriophorum angustifolium* as affected by raised CO₂ and increased N deposition. – *Oikos* 97: 415–425.
- Heijmans M. M. P. D., Klees H., de Visser W. & Berendse F. (2002): Response of a *Sphagnum* bog plant community to elevated CO₂ and N supply. – *Plant Ecology* 162: 123–134.
- Heinlen E. R. & Vitt D. H. (2003): Patterns of rarity in mosses of the Okanogan Highlands of Washington State: An emerging coarse filter approach to rare moss conservation. – *Bryologist* 106: 34–52.
- Henschel K., Kofuji R., Hasebe M., Saedler H., Münster T. & Theißen G. (2002): Two ancient classes of MIKC-type MADS-box genes are present in the moss *Physcomitrella patens*. – *Molecular Biology and Evolution* 19: 801–814.
- He-Nygrén X. & Piippo S. (2003): Phylogenetic relationships of the generic complex *Chiloscyphus–Lophocolea–Heteroscyphus* (*Geocalyceaceae*, *Hepaticae*): Insights from three chloroplast genes and morphology. – *Annales Botanici Fennici* 40: 317–329.
- Herpin U., Siewers U., Markert B., Rosolen V., Breulmann G. & Bernoux M. (2004): Second German heavy-metal survey by means of mosses, and comparison of the first and second approach in Germany and other European countries. – *Environmental Science and Pollution Research* 11: 57–66.
- Heyn C. C. & Herrnstadt I. (eds.) (2004): The bryophyte flora of Israel and adjacent regions. – The Israel Academy of Sciences and Humanities, Jerusalem. [724 pp.]
- Hölscher D., Köhler L., Leuschner C. & Kappelle M. (2003): Nutrient fluxes in stemflow and throughfall in three successional stages of an upper montane rain forest in Costa Rica. – *Journal of Tropical Ecology* 19: 557–565.
- Hölscher D., Köhler L., van Dijk A. I. J. M. & Bruijnzeel L. A. (2004): The importance of epiphytes to total rainfall interception by a tropical montane rain forest in Costa Rica. – *Journal of Hydrology* 292: 308–322.
- Holyoak D. T. (ed.) (2003): The distribution of bryophytes in Ireland. – Broadleaf Books, Dinas Powys. [564 pp.]
- Hong W. S. (2004). The *Hepaticae* and *Anthocerotae* of the Korean peninsula: identification keys to the taxa. – *Lindbergia* 28: 134–147.

- Hongve D., Brittain J. E. & Bjørnstad H. E. (2002): Aquatic mosses as a monitoring tool for ^{137}Cs contamination in streams and rivers – a field study from central southern Norway. – *Journal of Environmental Radioactivity* 60: 139–147.
- Hsu C. C., Horng F. W. & Kuo C. M. (2002): Epiphyte biomass and nutrient capital of a moist subtropical forest in north-eastern Taiwan. – *Journal of Tropical Ecology* 18: 659–670.
- Hugonnot V., Bardat J. & Boudier P. (2003): Ecology and distribution of *Jamesoniella undulifolia* (Nees) Müll. Frib. in metropolitan France. – *Cryptogamie Bryologie* 24: 341–366.
- Hühns S., Bauer C., Buhlmann S., Heinze C., von Barga S., Paape M. & Kellmann J.-W. (2003): Tomato spotted wilt virus (TSWV) infection of *Physcomitrella patens* gametophores. – *Plant Cell Tissue and Organ Culture* 75: 183–187.
- Humphrey J. W., Davey S., Peace A. J., Ferris R. & Harding K. (2002): Lichens and bryophyte communities of planted and semi-natural forests in Britain: the influence of site type, stand structure and deadwood. – *Biological Conservation* 107: 165–180.
- Huttunen S. & Ignatov M. S. (2003): The phylogeny of the moss family *Brachytheciaceae*. – *Cladistics* 19: 153–154.
- Huttunen S. & Ignatov M. S. (2004): Phylogeny of the *Brachytheciaceae* (*Bryophyta*) based on morphology and sequence level data. – *Cladistics* 20: 151–183.
- Huttunen S. (2003): Reproduction of the mosses *Pleurozium schreberi* and *Pohlia nutans* in the surroundings of copper smelters at Harjavalta, SW Finland. – *Journal of Bryology* 25: 41–47.
- Hylander K., Jonsson B. G. & Nilsson C. (2002): Evaluating buffer strips along boreal streams using bryophytes as indicators. – *Ecological Applications* 12: 797–806.
- Hyvönen J., Koskinen S., Hedderson T. A. & Merrill G. L. S. (2003): Cladistic analysis of *Polytrichales* (*Bryophyta*). – *Cladistics* 19: 154–154.
- Hyvönen J., Koskinen S., Merrill G. L. S., Hedderson T. A. & Stenroos S. (2004): Phylogeny of the *Polytrichales* (*Bryophyta*) based on simultaneous analysis of molecular and morphological data. – *Molecular Phylogenetics and Evolution* 31: 915–928.
- Ignatov M. S. & Huttunen S. (2002): *Brachytheciaceae* (*Bryophyta*) – a family of sibling genera. – *Arctoa* 11: 245–296.
- Ignatov M. S. & Ignatova E. A. (2003): Flora mkhov srednei chasti evropeiskoi Rossii [Moss flora of the middle part of European Russia]. Vol. 1: *Sphagnaceae* to *Hedwigiaceae*. – *Arctoa* 11, Suppl. 1: 1–608.
- Ignatov M. S. & Isoviita P. (2003): Proposal to conserve the name *Oxyrrhynchium* (*Brachytheciaceae*, *Musci*) with conserved type. – *Taxon* 52: 352–354.
- Ilyashuk B. P. (2002): Growth and production of aquatic mosses in acidified lakes of Karelia Republic, Russia. – *Water Air and Soil Pollution* 135: 285–290.
- Itouga M., Yamaguchi T. & Deguchi H. (2002): Gene flow and genetic differentiation in four East Asian liverwort species. – *Journal of the Hattori Botanical Laboratory*: 199–209.
- Iwatsuki Z. (2004): New catalog of the mosses of Japan. – *Journal of the Hattori Botanical Laboratory* 96: 1–182.
- Jeran Z., Jaćimović R. & Mikuz P. P. (2003): Lichens and mosses as biomonitors. – *Journal de Physique IV* 107: 675–678.
- Jia Y., Wu P. C., Wang M. Z. & He S. (2003): *Takakiopsida*, a unique taxon of bryophytes. – *Acta Phytotaxonomica Sinica* 41: 350–361.
- Jiménez J. A., Guerra J., Cano M. J. & Ros R. M. (2004): *Didymodon erosus* sp. nov. (*Musci*, *Pottiaceae*) from the Iberian Peninsula. – *Nova Hedwigia* 78: 501–506.
- Jiménez J. A., Ros R. M., Cano M. J. & Guerra J. (2002): Terricolous and saxicolous bryophyte vegetation of the Jbel Bouhalla (Rif Cordillera, Morocco). – *Phytocoenologia* 32: 3–28.
- Jiménez J. A., Ros R. M., Cano M. J. & Guerra J. (2003): *Didymodon nicholsonii* Culm. (*Pottiaceae*, *Musci*): new taxonomical, chorological and ecological data. – *Cryptogamie Bryologie* 24: 277–281.
- Jones G. A. & Henry G. H. R. (2003): Primary plant succession on recently deglaciated terrain in the Canadian High Arctic. – *Journal of Biogeography* 30: 277–296.
- Jones M. L. M., Oxley E. R. B. & Ashenden T. W. (2002): The influence of nitrogen deposition, competition and desiccation on growth and regeneration of *Racomitrium lanuginosum* (Hedw.) Brid. – *Environmental Pollution* 120: 371–378.
- Jukonienė I. (2002): Checklist of the Lithuanian mosses. – *Botanica Lithuanica* 8: 303–322.

- Jun R., Clement R. B. & Roze F. (2004): Primary succession of bryophyte and lichen communities in non-forested Atlantic coastal dunes: the example of the Pointe d'Arcay (France). – *Nova Hedwigia* 78: 453–468.
- Kawai Y. & Otsuka J. (2004): The deep phylogeny of land plants inferred from a full analysis of nucleotide base changes in terms of mutation and selection. – *Journal of Molecular Evolution* 58: 479–489.
- Korpelainen H. & Virtanen V. (2003): DNA fingerprinting of mosses. – *Journal of Forensic Sciences* 48: 804–807.
- Korpelainen H., Laitinen R. & Pohjamo M. (2004): Lack of intraspecific variation in cpDNA in *Trichocolea tomentella*. – *Journal of Bryology* 26: 221–223.
- Korsu K. (2004): Response of benthic invertebrates to disturbance from stream restoration: the importance of bryophytes. – *Hydrobiologia* 523: 37–45.
- Kosiba P. & Kolon K. (2002): Disturbances of ionic equilibrium in mosses of contaminated areas. – *Acta Societatis Botanicorum Poloniae* 71: 323–328.
- Kotanen P. M. (2002): Fates of added nitrogen in freshwater arctic wetlands grazed by Snow Geese: The role of mosses. – *Arctic Antarctic and Alpine Research* 34: 219–225.
- Kottke I., Beiter A., Weiss M., Haug I., Oberwinkler F. & Nebel M. (2003): Heterobasidiomycetes form symbiotic associations with hepatics: *Jungermanniales* have sebacinoid mycobionts while *Aneura pinguis* (*Metzgeriales*) is associated with a *Tulasnella* species. – *Mycological Research* 107: 957–968.
- Kremer C. & Drinnan A. (2003): Secondary wall formation in elaters of liverworts and the hornwort *Megaceros*. – *International Journal of Plant Sciences* 164: 823–834.
- Kremer C. L. & Drinnan A. N. (2004): Secondary walls in hyaline cells of *Sphagnum*. – *Australian Journal of Botany* 52: 243–256.
- Kremer C., Pettolino F., Bačić A. & Drinnan A. (2004): Distribution of cell wall components in *Sphagnum* hyaline cells and in liverwort and hornwort elaters. – *Planta* 219: 1023–1035.
- Krishna M. V. B., Karunasagar D. & Arunachalam J. (2003): Study of mercury pollution near a thermometer factory using lichens and mosses. – *Environmental Pollution* 124: 357–360.
- Krupa S. V. (2003): Effects of atmospheric ammonia (NH₃) on terrestrial vegetation: a review. – *Environmental Pollution* 124: 179–221.
- Kugita M., Kaneko A., Yamamoto Y., Takeya Y., Matsumoto T. & Yoshinaga K. (2003): The complete nucleotide sequence of the hornwort (*Anthoceros formosae*) chloroplast genome: insight into the earliest land plants. – *Nucleic Acids Research* 31: 716–721.
- Kürschner H. & Pócs T. (2002): Bryophyte communities of the loess cliffs of the Pannonian basin and adjacent areas, with the description of *Hilpertio velenovskyi-Pterygoneuretum compacti* ass. nov.: Studies on the cryptogamic vegetation of loess cliffs, VI. – *Nova Hedwigia* 75: 101–119.
- Kürschner H. (2002): Life strategies of Pannonian loess cliff bryophyte communities: Studies on the cryptogamic vegetation of loess cliffs, VIII. – *Nova Hedwigia* 75: 307–318.
- Kürschner H. (2004): Intracapsular spore germination in *Brachymerium leptophyllum* (Müll. Hal.) A. Jaeger (*Bryaceae*, *Bryopsida*) – an achorous strategy. – *Nova Hedwigia* 78: 447–451.
- La Farge C., Shaw A. J. & Vitt D. H. (2002): The circumscription of the *Dicranaceae* (*Bryopsida*) based on the chloroplast regions *trnL-trnF* and *rps4*. – *Systematic Botany* 27: 435–452.
- Lamy D. & Ochyra R. (2003): “Flore generale des environs de Paris” by F.F. Chevallier: historical, nomenclatural and bibliophilic aspects. – *Cryptogamie Bryologie* 24: 295–317.
- Leblond S., Colin J. L., Losno R. & Rausch de Traubenberg C. (2003): Monitoring of trace element concentrations in mosses and deposition fluxes during one year in a French rural area. – *Journal de Physique IV* 107: 749–752.
- Lederbogen D. (2003): Vegetation und Ökologie der Moore Osttirols. – *Dissertationes Botanicae* 371: 1–217.
- Lee J., Johnson-Green P. & Lee E. J. (2004): Correlation between environmental conditions and the distribution of mosses exposed to urban air pollutants. – *Water Air and Soil Pollution* 153: 293–305.
- Ligrone R., Vaughn K. C., Renzaglia K. S., Knox J. P. & Duckett J. G. (2002): Diversity in the distribution of polysaccharide and glycoprotein epitopes in the cell walls of bryophytes: new evidence for the multiple evolution of water-conducting cells. – *New Phytologist* 156: 491–508.
- Limpens J. & Berendse F. (2003): Growth reduction of *Sphagnum magellanicum* subjected to high nitrogen deposition: the role of amino acid nitrogen concentration. – *Oecologia* 135: 339–345.

- Lindlar A. & Frahm J.-P. (2002): Epiphytic bryophyte communities in New Zealand temperate rainforests along selected altitudinal transects – Studies in austral temperate rainforest bryophytes 13. – *Phytocoenologia* 32: 251–316.
- Long D. G. (2004): Proposal to conserve the name *Jungermannia concinnata* with a conserved type. – *Taxon* 53: 195.
- Lüth M. (2002): *Cinclidotus confertus* (Musci, Cinclidotaceae), a new species from Greece. – *Cryptogamie Bryologie* 23: 11–16.
- Lüth M. (2002): *Dicranum transylvanicum* (Musci, Dicranaceae), a new species from Romania. – *Cryptogamie Bryologie* 23: 17–21.
- Lüth M. (2004): Die Rückkehr von *Ulota coarctata*. – *Limprichtia* 24: 35–39.
- Magombo Z. L. K. (2003): Taxonomic revision of the moss family *Diphysciaceae* M. Fleisch. (Musci). – *Journal of the Hattori Botanical Laboratory* 95: 1–86.
- Maier E. (2004): The formation of plicae in capsules of mosses of the order *Bryales*, with a focus on the genus *Grimmia* Hedw. – *Candollea* 59: 51–63.
- Makipaa R. & Heikkinen J. (2003): Large-scale changes in abundance of terricolous bryophytes and macrolichens in Finland. – *Journal of Vegetation Science* 14: 497–508.
- Manzke W. & Wentzel M. (2003): Zur Verbreitung, Ökologie und Gefährdung des Kugel-Hornmooses *Notothylas orbicularis* im Südlichen Unteren Vogelsberg (Hessen). – *Hessische Floristische Briefe* 52: 21–39.
- Marschall M. & Proctor M. C. F. (2004): Are bryophytes shade plants? Photosynthetic light responses and proportions of chlorophyll a, chlorophyll b and total carotenoids. – *Annals of Botany* 94: 593–603.
- Marstaller R. (2003): *Schistidium pruinosi* ass. nov. in Thuringia and Vogtland (Saxony, Germany). – *Nova Hedwigia* 77: 253–267.
- Martinčič A. (2004): Annotated check-list of the mosses of Slovenia. – *La Hacienda* 2: 91–164.
- Martínez-Abaigar J., García-Álvaro M. A., Beaucourt N. & Núñez-Olivera E. (2002): Combined seasonal and longitudinal variations of element concentrations in two aquatic mosses (*Fontinalis antipyretica* and *F. squamosa*). – *Nova Hedwigia* 74: 349–364.
- Martins R. J. E. & Boaventura R. A. R. (2002): Uptake and release of zinc by aquatic bryophytes (*Fontinalis antipyretica* L. ex. Hedw.). – *Water Research* 36: 5005–5012.
- Matsunaga T., Ishii T., Matsumoto S., Higuchi M., Darvill A., Albersheim P. & O'Neill M. A. (2004): Occurrence of the primary cell wall polysaccharide rhamnogalacturonan II in pteridophytes, lycophytes, and bryophytes. Implications for the evolution of vascular plants. – *Plant Physiology* 134: 339–351.
- Matteri C. M. (2003): Los musgos (*Bryophyta*) de Argentina. – *Tropical Bryology* 24: 33–100.
- Matteri C. M. (2004): The Mosses (*Bryophyta*) of Uruguay, their synonymy and distribution. – *Cryptogamie Bryologie* 25: 147–167.
- McFadden J. P., Eugster W. & Chapin F. S. (2003): A regional study of the controls on water vapor and CO₂ exchange in arctic tundra. – *Ecology* 84: 2762–2776.
- McGee G. G. & Kimmerer R. W. (2002): Forest age and management effects on epiphytic bryophyte communities in Adirondack northern hardwood forests, New York, USA. – *Canadian Journal of Forest Research – Revue Canadienne de Recherche Forestière* 32: 1562–1576.
- McMullen J. A., Barber K. E. & Johnson B. (2004): A paleoecological perspective of vegetation succession on raised bog microforms. – *Ecological Monographs* 74: 45–77.
- McNeil P. & Waddington J. M. (2003): Moisture controls on *Sphagnum* growth and CO₂ exchange on a cutover bog. – *Journal of Applied Ecology* 40: 354–367.
- Miller N. G. & McDaniel S. F. (2004): Bryophyte dispersal inferred from colonization of an introduced substratum on Whiteface Mountain, New York. – *American Journal of Botany* 91: 1173–1182.
- Mitchell E. A. D., Buttler A., Grosvernier P., Rydin H., Siegenthaler A. & Gobat J.-M. (2002): Contrasted effects of increased N and CO₂ supply on two keystone species in peatland restoration and implications for global change. – *Journal of Ecology* 90: 529–533.
- Mitchell R. J., Sutton M. A., Truscott A. M., Leith I. D., Cape J. N., Pitcairn C. E. R. & van Dijk N. (2004): Growth and tissue nitrogen of epiphytic Atlantic bryophytes: effects of increased and decreased atmospheric N deposition. – *Functional Ecology* 18: 322–329.
- Moen J. & Jonsson B. G. (2003): Edge effects on liverworts and lichens in forest patches in a mosaic of boreal forest and wetland. – *Conservation Biology* 17: 380–388.
- Mogensen G. S. & Goldberg I. (2003): The genus *Seligeria* in the Ural Mountains (*Seligeriaceae*, *Bryophyta*). – *Lindbergia* 28: 59–74.

- Mohr G. (2002): Die Flora und Vegetation der „Filze und Hochschachten“ im Nationalpark Bayerischer Wald. – *Hoppea* 63: 363–476.
- Molau A. K. J. U. & Alatalo J. M. (2003): Responses of bryophytes to simulated environmental change at Latnjajaure, northern Sweden. – *Journal of Bryology* 25: 163–168.
- Moore T. R., Bubier J. L., Frothingham S. E., Lafleur P. M. & Roulet N. T. (2002): Plant biomass and production and CO₂ exchange in an ombrotrophic bog. – *Journal of Ecology* 90: 25–36.
- Moser D., Zechmeister H. G., Plutzer C., Sauberer N., Wrška T. & Grabherr G. (2002): Landscape patch shape complexity as an effective measure for plant species richness in rural landscapes. – *Landscape Ecology* 17: 657–669.
- Müller F. & Baumann M. (2004): Zur Bestandssituation der Moosarten der FFH-Richtlinie in Sachsen. – *Limprichtia* 24: 169–186.
- Mulligan R. C. & Gignac L. D. (2002): Bryophyte community structure in a boreal poor fen II: interspecific competition among five mosses. – *Canadian Journal of Botany – Revue Canadienne de Botanique* 80: 330–339.
- Muñoz J., Aldasoro J. J., Negro A., de Hoyos C. & Vega J. C. (2003): Flora and water chemistry in a relictic mire complex: the Sierra Segundera mire area (Zamora, NW Spain). – *Hydrobiologia* 495: 1–16.
- Muñoz J., Felicísimo Á.M., Cabezas F., Burgaz A.R. & Martínez I. (2004): Wind as a long-distance dispersal vehicle in the Southern Hemisphere. – *Science* 304: 1144–1147.
- Nabe H., Funabiki R., Hirai M., Kashino Y., Koike H. & Satoh K. (2003): Tolerance to desiccation and changes in photosynthetic systems during drying in various mosses. – *Plant and Cell Physiology* 44: S48.
- Nakatsubo T. (2002): Predicting the impact of climatic warming on the carbon balance of the moss *Sanionia uncinata* on a maritime Antarctic island. – *Journal of Plant Research* 115: 99–106.
- Negi H. R. & Gadgil M. (2002): Cross-taxon surrogacy of biodiversity in the Indian Garhwal Himalaya. – *Biological Conservation* 105: 143–155.
- Newmaster S. G. & Bell F. W. (2002): The effects of silvicultural disturbances on cryptogam diversity in the boreal-mixedwood forest. – *Canadian Journal of Forest Research – Revue Canadienne de Recherche Forestière* 32: 38–51.
- Newsham K. K., Hodgson D. A., Murray A. W. A., Peat H. J. & Smith R. I. L. (2002): Response of two Antarctic bryophytes to stratospheric ozone depletion. – *Global Change Biology* 8: 972–983.
- Niemi R., Martikainen P. J., Silvola J. & Holopainen T. (2002): Ozone effects on *Sphagnum* mosses, carbon dioxide exchange and methane emission in boreal peatland microcosms. – *Science of The Total Environment* 289: 1–12.
- Niemi R., Martikainen P. J., Silvola J., Sonninen E., Wulff A. & Holopainen T. (2002): Responses of two *Sphagnum* moss species and *Eriophorum vaginatum* to enhanced UV-B in a summer of low UV intensity. – *New Phytologist* 156: 509–515.
- Niemi R., Martikainen P. J., Silvola J., Wulff A., Turtola S. & Holopainen A. (2002): Elevated UV-B radiation alters fluxes of methane and carbon dioxide in peatland microcosms. – *Global Change Biology* 8: 361–371.
- Nifontova M. G. (2003): Current contents of Sr-90 and Cs-137 in the moss-lichen cover of piedmont and mountain landscapes of the Northern Urals. – *Russian Journal of Ecology* 34: 47–51.
- Niklaus P. A. & Körner C. (2004): Synthesis of a six-year study of calcareous grassland responses to in situ CO₂ enrichment. – *Ecological Monographs* 74: 491–511.
- Nilsson M. C., Wardle D. A., Zackrisson O. & Jäderlund A. (2002): Effects of alleviation of ecological stresses on an alpine tundra community over an eight-year period. – *Oikos* 97: 3–17.
- Nimis P. L., Fumagalli F., Bizzotto A., Codogno M. & Skert N. (2002): Bryophytes as indicators of trace metals pollution in the River Brenta (NE Italy). – *Science of the Total Environment* 286: 233–242.
- Nishiyama T., Fujita T., Shin-I T., Seki M., Nishide H., Uchiyama I., Kamiya A., Carninci P., Hayashizaki Y., Shinozaki K., Kohara Y. & Hasebe M. (2003): Comparative genomics of *Physcomitrella patens* gametophytic transcriptome and *Arabidopsis thaliana*: Implication for land plant evolution. – *Proceedings of the National Academy of Sciences of the United States of America* 100: 8007–8012.
- Nishiyama T., Wolf P. G., Kugita M., Sinclair R. B., Sugita M., Sugiura C., Wakasugi T., Yamada K., Yoshinaga K., Yamaguchi K., Ueda K. & Hasebe M. (2004): Chloroplast phylogeny indicates that bryophytes are monophyletic. – *Molecular Biology and Evolution* 21: 1813–1819.
- Nižňanská M., Chromý P. & Dítě D. (2003): *Paludella squarrosa* in the Branisko, Slovakia. – *Biologia* 58: 841–842.

- Nungesser M. K. (2003): Modelling microtopography in boreal peatlands: hummocks and hollows. – *Ecological Modelling* 165: 175–207.
- O'Shea B. J. (2002): Checklist of the mosses of Sri Lanka. – *Journal of the Hattori Botanical Laboratory* 92: 125–164.
- O'Shea B. J. (2003): An overview of the mosses of Bangladesh, with a revised checklist. – *Journal of the Hattori Botanical Laboratory* 93: 259–272
- O'Shea B. J. (2003): Checklist of the mosses of sub-Saharan Africa (version 4, 1203). – *Tropical Bryology Research Reports* 4: 1–182.
- Ochyra R. & Bednarek-Ochyra H. (2002): Effective dates of publication of two *Campylopus* species (*Bryopsida*, *Dicranaceae*). – *Nova Hedwigia* 75: 545–549.
- Ochyra R. & Lamy D. (2004): New names for mosses proposed by Palisot de Beauvois in his “Muscologie” of 1822. – *Cryptogamie Bryologie* 25: 179–196.
- Ochyra R. & Zijlstra G. (2003): Nomenclatural pitfalls in the protologue of *Hypnum lycopodioides* Brid. (*Musci*). – *Taxon* 52: 121–127.
- Ochyra R. (2004): The identity of *Seligeria transylvanica* (*Seligeriaceae*). – *Journal of Bryology* 26: 223–224.
- Ochyra R., Żarnowiec J. & Bednarek-Ochyra H. (2003): Census Catalogue of Polish Mosses. – In: Mirek Z. (ed.), *Biodiversity of Poland*, Vol. 3, Institute of Botany, Polish Academy of Sciences, Kraków. [372 pp.]
- Ódor P. & van Hees A. F. M. (2004): Preferences of dead wood inhabiting bryophytes for decay stage, log size and habitat types in Hungarian beech forests. – *Journal of Bryology* 26: 79–95.
- Oesau A. (2003): *Pterygoneurum papillosum* (*Bryopsida*: *Pottiaceae*), a new moss species from Germany. – *Journal of Bryology* 25: 247–252.
- Oguri E., Yamaguchi T., Tsubota H. & Deguchi H. (2003): A preliminary phylogenetic study of the genus *Leucobryum* (*Leucobryaceae*, *Musci*) in Asia and the Pacific based on ITS and *rbcL* sequences. – *Hikobia* 14: 45–53.
- Økland R. H., Rydgren K. & Økland T. (2003): Plant species composition of boreal spruce swamp forests: Closed doors and windows of opportunity. – *Ecology* 84: 1909–1919.
- Økland T., Rydgren K., Økland R. H., Storaunet K. O. & Rolstad J. (2003): Variation in environmental conditions, understory species number, abundance and composition among natural and managed *Picea*-abies forest stands. – *Forest Ecology and Management* 177: 17–37.
- Otnyukova T. N. (2002): A study of *Didymodon* species (*Pottiaceae*, *Musci*) in Russia. I. Species with caducous leaf apices. – *Arctoa* 11: 337–349.
- Otsus M. & Zobel M. (2003): Moisture conditions and the presence of bryophytes determine fescue species abundance in a dry calcareous grassland. – *Oecologia* 138: 293–299.
- Ötvös E., Kozák I. O., Fekete J., Sharma V. K. & Tuba Z. (2004): Atmospheric deposition of polycyclic aromatic hydrocarbons (PAHs) in mosses (*Hypnum cupressiforme*) in Hungary. – *Science of the Total Environment* 330: 89–99.
- Ötvös E., Pázmándi T. & Tuba Z. (2003): First national survey of atmospheric heavy metal deposition in Hungary by the analysis of mosses. – *Science of the Total Environment* 309: 151–160.
- Paavola R., Muotka T., Virtanen R., Heino J. & Kreivi P. (2003): Are biological classifications of headwater streams concordant across multiple taxonomic groups? – *Freshwater Biology* 48: 1912–1923.
- Pacak A. & Szweykowska-Kulińska Z. (2003): Organellar inheritance in liverworts: An example of *Pellia borealis*. – *Journal of Molecular Evolution* 56: 11–17.
- Pacak A., Fiedorow P. & Szweykowska-Kulińska Z. (2002): Phylogenetic studies of liverworts from the genus *Pellia* using a new type of a molecular marker. – *Acta Societatis Botanicorum Poloniae* 71: 227–234.
- Painter T. J. (2003): Concerning the wound-healing properties of *Sphagnum* holocellulose: the Maillard reaction in pharmacology. – *Journal of Ethnopharmacology* 88: 145–148.
- Pancost R. D., Baas M., van Geel B. & Sinnighe Damsté J. S. (2003): Response of an ombrotrophic bog to a regional climate event revealed by macrofossil, molecular and carbon isotopic data. – *Holocene* 13: 921–932.
- Pannewitz S., Green T. G. A., Scheidegger C., Schlenzog M. & Schroeter B. (2003): Activity pattern of the moss *Henediella heimii* (Hedw.) Zand. in the Dry Valleys, Southern Victoria Land, Antarctica during the mid-austral summer. – *Polar Biology* 26: 545–551.

- Parolly G. & Kürschner H. (2004): Ecosociological studies in Ecuadorian bryophyte communities – I. Syntaxonomy, life strategies and ecomorphology of the oreale epiphytic vegetation of S Ecuador. – *Nova Hedwigia* 78: 1–43.
- Pedersen N. & Hedenäs L. (2003): Phylogenetic investigations of a well supported clade within the acrocarpous moss family *Bryaceae*: evidence from seven chloroplast DNA sequences and morphology. – *Plant Systematics and Evolution* 240: 115–132.
- Pedersen N., Cox C. J. & Hedenäs L. (2003): Phylogeny of the moss family *Bryaceae* inferred from chloroplast DNA sequences and morphology. – *Systematic Botany* 28: 471–482.
- Peintinger M., Bergamini A. & Schmid B. (2003): Species-area relationships and nestedness of four taxonomic groups in fragmented wetlands. – *Basic and Applied Ecology* 4: 385–394.
- Pellerin S. & Lavoie C. (2003): Reconstructing the recent dynamics of mires using a multitechnique approach. – *Journal of Ecology* 91: 1008–1021.
- Peng-cheng W., Crosby M. & He S. (2002): Moss flora of China, English version, Vol. 6: *Hookeriaceae* through *Thuidiaceae*. – Missouri Botanical Garden Press, St. Louis, U. S. A. [221 pp.]
- Pfeiffer T. (2003): Terricolous bryophyte vegetation of New Zealand temperate rain forest – communities, adaptive strategies and divergence patterns. *Studies in austral temperate rain forest bryophytes* 14. – *Bryophytorum Bibliotheca* 59: 1–188.
- Pfeiffer T., Frey W. & Stech M. (2002): A new species of *Treubia* (*Treubiaceae*, *Hepaticophytina*) from New Zealand based on molecular evidence. *Studies in austral temperate rain forest bryophytes* 20. – *Nova Hedwigia* 75: 241–253.
- Pharo E. J., Lindenmayer D. B. & Taws N. (2004): The effects of large-scale fragmentation on bryophytes in temperate forests. – *Journal of Applied Ecology* 41: 910–921.
- Piippo S., He X. L., Juslen A., Tan B. C., Murphy D. H. & Pócs T. (2002): Hepatic and hornwort flora of Singapore. – *Annales Botanici Fennici* 39: 101–127.
- Pócs T., Sabovljević M., Puche F., Moragues J. G. S., Gimeno C. & Kürschner H. (2004): *Crossidium laxefilamentosum* Frey & Kürschner (*Bryopsida: Pottiaceae*), new to Europe and to North Africa. – *Journal of Bryology* 26: 113–124.
- Pohjamo M. & Laaka-Lindberg S. (2003): Reproductive modes in the epixylic hepatic *Anastrophyllum hellerianum*. – *Perspectives in Plant Ecology, Evolution and Systematics* 6: 159–168.
- Pohjamo M. & Laaka-Lindberg S. (2004): Demographic population structure of a leafy epixylic hepatic *Anastrophyllum hellerianum* (Nees ex Lindenb.) R.M. Schust. – *Plant Ecology* 173: 73–81.
- Poikolainen J., Kubin E., Piispanen J. & Karhu J. (2004): Atmospheric heavy metal deposition in Finland during 1985–2000 using mosses as bioindicators. – *Science of the Total Environment* 318: 171–185.
- Poli D. B., Jacobs M. & Cooke T. J. (2003): Auxin regulation of axial growth in bryophyte sporophytes: Its potential significance for the evolution of early land plants. – *American Journal of Botany* 90: 1405–1415.
- Popper Z. A. & Fry S. C. (2003): Primary cell wall composition of bryophytes and charophytes. – *Annals of Botany* 91: 1–12.
- Poulíčková A., Bogdanová K., Hekera P. & Hájková P. (2003): Epiphytic diatoms of the spring fens in the flysch area of the Western Carpathians. – *Biologia* 58: 749–757.
- Poulíčková A., Hájková P., Křenková P. & Hájek M. (2004): Distribution of diatoms and bryophytes on linear transects through spring fens. – *Nova Hedwigia* 78: 411–424.
- Poykio R., Tervaniemi O. M., Torvela H. & Peramaki P. (2001): Heavy metal accumulation in woodland moss (*Pleurozium schreberi*) in the area around a chromium open-cast mine at Kemi, and in the area around the ferrochrome and stainless steel works at Tornio, Northern Finland. – *International Journal of Environmental Analytical Chemistry* 81: 137–151.
- Proctor M. C. F. & Tuba Z. (2002): Poikilohydry and homiohydry: antithesis or spectrum of possibilities? – *New Phytologist* 156: 327–349.
- Proctor M. C. F. (2004): How long must a desiccation-tolerant moss tolerate desiccation? Some results of 2 years' data logging on *Grimmia pulvinata*. – *Physiologia Plantarum* 122: 21–27.
- Pruchner D., Nassal B., Schindler M. & Knoop V. (2001): Mosses share mitochondrial group II introns with flowering plants, not with liverworts. – *Molecular Genetics and Genomics* 266: 608–613.
- Pursell R. A. & Bruggeman-Nannenga M. A. (2004): A revision of the infrageneric taxa of *Fissidens*. – *Bryologist* 107: 1–20.
- Quandt D. & Huttunen S. (2004): Evolution of pendent life-forms in bryophytes. – *Journal of the Hattori Botanical Laboratory* 95: 207–218.

- Quandt D. & Stech M. (2004): Molecular evolution of the *trnT*(UGU)-*trnF*(GAA) region in bryophytes. – *Plant Biology* 6: 545–554.
- Quandt D., Huttunen S., Streimann H., Frahm J.-P. & Frey W. (2004): Molecular phylogenetics of the *Meteoriaceae* s. str.: focusing on the genera *Meteorium* and *Papillaria*. – *Molecular Phylogenetics and Evolution* 32: 435–461.
- Quandt D., Müller K. & Huttunen S. (2003): Characterisation of the chloroplast DNA *psbT*-H region and the influence of dyad symmetrical elements on phylogenetic reconstructions. – *Plant Biology* 5: 400–410.
- Racine C., Jandt R., Meyers C. & Dennis J. (2004): Tundra fire and vegetation change along a hillslope on the Seward Peninsula, Alaska, USA. – *Arctic Antarctic and Alpine Research* 36: 1–10.
- Rapalee G., Steyaert L. T. & Hall F. G. (2001): Moss and lichen cover mapping at local and regional scales in the boreal forest ecosystem of central Canada – art. no. 2001JD000509. – *Journal of Geophysical Research-Atmospheres* 106: 33551–33563.
- Rausch de Traubenberg C. & Ah-Peng C. (2004): A procedure to purify and culture a clonal strain of the aquatic moss *Fontinalis antipyretica* for use as a bioindicator of heavy metals. – *Archives of Environmental Contamination and Toxicology* 46: 289–295.
- Raven J. A. (2002): Putting the fight in bryophytes. – *New Phytologist* 156: 321–323.
- Raven J. A. (2002): Selection pressures on stomatal evolution. – *New Phytologist* 153: 371–386.
- Raven J. A. (2003): Long-distance transport in non-vascular plants. – *Plant Cell and Environment* 26: 73–85.
- Real C., Aboal J. R., Fernandez J. A. & Carballeira A. (2003): The use of native mosses to monitor fluorine levels and associated temporal variations in the vicinity of an aluminium smelter. – *Atmospheric Environment* 37: 3091–3102.
- Rees D. C. & Juday G. P. (2002): Plant species diversity on logged versus burned sites in central Alaska. – *Forest Ecology and Management* 155: 291–302.
- Rice S. K. & Schneider N. (2004): Cushion size, surface roughness and the control of water balance and carbon flux in the cushion moss *Leucobryum glaucum* (*Leucobryaceae*). – *American Journal of Botany* 91: 1164–1172.
- Rinnan R. & Holopainen T. (2004): Ozone effects on the ultrastructure of peatland plants: *Sphagnum* mosses, *Vaccinium oxycoccus*, *Andromeda polifolia* and *Eriophorum vaginatum*. – *Annals of Botany* 94: 623–634.
- Ross-Davis A. L. & Frego K. A. (2002): Comparison of plantations and naturally regenerated clearcuts in the Acadian Forest: forest floor bryophyte community and habitat features. – *Canadian Journal of Botany – Revue Canadienne de Botanique* 80: 21–33.
- Ross-Davis A. L. & Frego K. A. (2004): Propagule sources of forest floor bryophytes: Spatiotemporal compositional patterns. – *Bryologist* 107: 88–97.
- Rothero G. (2003): Bryophyte conservation in Scotland. – *Botanical Journal of Scotland* 55: 17–26.
- Rowntree J. K., Lawton K. F., Rumsey F. J. & Sheffield E. (2003): Exposure to Asulox inhibits the growth of mosses. – *Annals of Botany* 92: 547–556.
- Ruess R. W., Hendrick R. L., Burton A. J., Pregitzer K. S., Sveinbjornsson B., Allen M. E. & Maurer G. E. (2003): Coupling fine root dynamics with ecosystem carbon cycling in black spruce forests of interior Alaska. – *Ecological Monographs* 73: 643–662.
- Rühling Å. & Tyler G. (2004): Changes in the atmospheric deposition of minor and rare elements between 1975 and 2000 in south Sweden, as measured by moss analysis. – *Environmental Pollution* 131: 417–423.
- Rühling Å. (2002): A European survey of atmospheric heavy metal deposition in 2000–2001. – *Environmental Pollution* 120: 23–25.
- Rydgren K. & Økland R. H. (2003): Short-term costs of sexual reproduction in the clonal moss *Hylocomium splendens*. – *Bryologist* 106: 212–220.
- Rydgren K., Økland R. H. & Hestmark G. (2004): Disturbance severity and community resilience in a boreal forest. – *Ecology* 85: 1906–1915.
- Sabovljević M. (2003): Bryophyte flora of South Banat (Vojvodina, Yugoslavia). – *Cryptogamie Bryologie* 24: 241–252.
- Sabovljević M., Cvetić T. & Stevanović V. (2004): Bryophyte Red List of Serbia and Montenegro. – *Biodiversity and Conservation* 13: 1781–1789.

- Sætersdal M., Gjerde I., Blom H. H., Ihlen P. G., Myrseth E. W., Pommeresche R., Skartveit J., Solhøy T. & Aas O. (2003): Vascular plants as a surrogate species group in complementary site selection for bryophytes, macrolichens, spiders, carabids, staphylinids, snails, and wood living polypore fungi in a northern forest. – *Biological Conservation* 115: 21–31.
- Salemaa M., Derome J., Helmisaari H. S., Nieminen T. & Vanha-Majamaa I. (2004): Element accumulation in boreal bryophytes, lichens and vascular plants exposed to heavy metal and sulfur deposition in Finland. – *Science of the Total Environment* 324: 141–160.
- Samecka-Cymerman A., Kempers A. J. & Winter B. (2002): Metal and macroelement concentration and effect of nutrient addition in terrestrial bryophytes growing on serpentine massifs in Lower Silesia, Poland. – *Environmental Geology* 43: 79–86.
- Samecka-Cymerman A., Kolon K. & Kempers A. J. (2002): Heavy metals in aquatic bryophytes from the Ore Mountains (Germany). – *Ecotoxicology and Environmental Safety* 52: 203–210.
- Sandvik S. M. & Heegaard E. (2003): Effects of simulated environmental changes on growth and growth form in a late snowbed population of *Pohlia wahlenbergii* (Web. et Mohr) Andr. – *Arctic Antarctic and Alpine Research* 35: 341–348.
- Sato Y., Wada M. & Kadota A. (2003): Accumulation response of chloroplasts induced by mechanical stimulation in bryophyte cells. – *Planta* 216: 772–777.
- Schlegel M. (2003): Phylogeny of Eukaryotes recovered with molecular data: highlights and pitfalls. – *European Journal of Protistology* 39: 113–122.
- Schnyder N. (2003): Neufund von *Sphaerocarpos texanus* Aust. in der Schweiz. – *Meylania* 26: 19–20.
- Scrosati R. (2002): An updated definition of genet applicable to clonal seaweeds, bryophytes, and vascular plants. – *Basic and Applied Ecology* 3: 97–99.
- Shaw A. J., Cox C. J. & Boles S. B. (2003): Polarity of peatmoss (*Sphagnum*) evolution: who says bryophytes have no roots? – *American Journal of Botany* 90: 1777–1787.
- Shaw A. J., Cox C. J., Goffinet B., Buck W. R. & Boles S. B. (2003): Phylogenetic evidence of a rapid radiation of pleurocarpous mosses (*Bryophyta*). – *Evolution* 57: 2226–2241.
- Shimamura M., Mineyuki Y. & Deguchi H. (2003): A review of the monoplastidic meiosis in liverworts. – *Journal of the Hattori Botanical Laboratory* 94: 179–186.
- Shparyk Y. S. & Parpan V. I. (2004): Heavy metal pollution and forest health in the Ukrainian Carpathians. – *Environmental Pollution* 130: 55–63.
- Skrindo A. & Økland R. H. (2002): Effects of fertilization on understorey vegetation in a Norwegian *Pinus sylvestris* forest. – *Applied Vegetation Science* 5: 167–172.
- Smith A.J.E. (2004): *The Moss Flora of Britain and Ireland*, 2nd ed. – Cambridge University Press, Cambridge. [1024 pp.]
- Snäll T., Fogelqvist J., Ribeiro P. J. & Lascoux M. (2004): Spatial genetic structure in two congeneric epiphytes with different dispersal strategies analysed by three different methods. – *Molecular Ecology* 13: 2109–2119.
- Snäll T., Ribeiro P. J. & Rydin H. (2003): Spatial occurrence and colonisations in patch-tracking metapopulations: local conditions versus dispersal. – *Oikos* 103: 566–578.
- Solheim B., Wiggen H., Roberg S. & Spaink H. P. (2004): Associations between arctic cyanobacteria and mosses. – *Symbiosis* 37: 169–187.
- Šoltés R. & Dítě D. (2002): *Sphagnum platyphyllum* (*Bryophyta*) in Slovakia. – *Biologia* 57: 470–470.
- Sonesson M., Carlsson B. Å., Callaghan T. V., Halling S., Björn L. O., Bertgren M. & Johanson U. (2002): Growth of two peat-forming mosses in subarctic mires: species interactions and effects of simulated climate change. – *Oikos* 99: 151–160.
- Spence J. R. (2004): A preliminary treatment of the *Bryaceae* of the bryophyte flora of North America region. – *Evansia* 21: 1–15.
- Stapper N. J. & Kricke R. (2004): Epiphytische Moose und Flechten als Bioindikatoren von städtischer Überwärmung, Standorteutrophierung und verkehrsbedingten Immisionen. – *Limprichtia* 24: 187–208.
- Stark L. R. (2002): Phenology and its repercussions on the reproductive ecology of mosses. – *Bryologist* 105: 204–218.
- Stark L. R. (2002): Skipped reproductive cycles and extensive sporophyte abortion in the desert moss *Tortula inermis* correspond to unusual rainfall patterns. – *Canadian Journal of Botany – Revue Canadienne de Botanique* 80: 533–542.

- Stark L. R., Nichols L., McLetchie D. N., Smith S. D. & Zundel C. (2004): Age and sex-specific rates of leaf regeneration in the Mojave Desert moss *Syntrichia caninervis*. – *American Journal of Botany* 91: 1–9.
- Stebel A. & Ochyra R. (2004): Incorrect records of *Plagiomnium drummondii* in Central Europe. – *Journal of Bryology* 26: 233–235.
- Stech M. & Frey W. (2004): Molecular circumscription and relationships of selected Gondwanan species of *Haplomitrium* (*Calobryales*, *Haplomitriopsida*, *Hepaticophytina*) – *Studies in austral temperate rain forest bryophytes* 24. – *Nova Hedwigia* 78: 57–70.
- Stech M. & Frahm J.-P. (2001): *Palustriella pluristratosa* spec. nov. (*Amblystegiaceae*, *Bryopsida*), a new aquatic moss species with pluristratose lamina from Switzerland. – *Botanica Helvetica* 111: 139–150.
- Stech M., Konstantinova N. A. & Frey W. (2002): Molecular divergence between *Treubia* Goebel and *Apotreubia* S. Hatt. & Mizut., the two genera of the archaic liverwort class *Treubiopsida* (*Hepaticophytina*) – *Studies in austral temperate rain forest bryophytes* 19. – *Nova Hedwigia* 75: 91–100.
- Stech M., Quandt D. & Frey W. (2003): Molecular circumscription of the hornworts (*Anthocerotophyta*) based on the chloroplast DNA *trnL-trnF* region. – *Journal of Plant Research* 116: 389–398.
- Steel J. B., Wilson J. B., Anderson B. J., Lodge R. H. E. & Tangney R. S. (2004): Are bryophyte communities different from higher-plant communities? Abundance relations. – *Oikos* 104: 479–486.
- Suetsugu N. & Wada M. (2003): Cryptogam blue-light photoreceptors. – *Current Opinion in Plant Biology* 6: 91–96.
- Sugiura C., Kobayashi Y., Aoki S., Sugita C. & Sugita M. (2003): Complete chloroplast DNA sequence of the moss *Physcomitrella patens*: evidence for the loss and relocation of *rpoA* from the chloroplast to the nucleus. – *Nucleic Acids Research* 31: 5324–5331.
- Sundberg S. & Rydin H. (2002): Habitat requirements for establishment of *Sphagnum* from spores. – *Journal of Ecology* 90: 268–278.
- Sundberg S. (2002): Sporophyte production and spore dispersal phenology in *Sphagnum*: the importance of summer moisture and patch characteristics. – *Canadian Journal of Botany – Revue Canadienne de Botanique* 80: 543–556.
- Suzuki K. (2004): Characterization of telomere DNA among five species of pteridophytes and bryophytes. – *Journal of Bryology* 26: 175–180.
- Szczepaniak K. & Biziuk M. (2003): Aspects of the biomonitoring studies using mosses and lichens as indicators of metal pollution. – *Environmental Research* 93: 221–230.
- Szövényi P., Hock Z. S. & Tóth Z. (2004): Phorophyte preferences of epiphytic bryophytes in a stream valley in the Carpathian Basin. – *Journal of Bryology* 26: 137–146.
- Szweykowska-Kulińska Z., Pacak A. & Jankowiak K. (2002): New DNA markers for discrimination between closely-related species and for the reconstruction of historical events; an example using liverworts. – *Cellular & Molecular Biology Letters* 7: 403–416.
- Tahvanainen T. (2004): The growth of *Scorpidium revolvens* in relation to calcium and magnesium. – *Lindbergia* 29: 123–128.
- Teich M. & Stetzka K. M. (2004): Aktives Biomonitoring mit dem Torfmoos *Sphagnum fallax* Klinggr. auf Schwermetallbelastungen unter Anwendung der „Moss-bag-technique“ auf den sächsischen Level II –Dauerbeobachtungsflächen. – *Limprichtia* 25: 1–86.
- Thébaud G., Cubizolle H. & Pétel G. (2003): Etude préliminaire des hauts-marais ombrotrophes du Forez septentrional et des Bois-Noirs (Massif central, France) : végétation, évolution et dynamique actuelle [Preliminary research about ombrotrophic raised bogs of Bois-Noirs and Northern Forez mountains (French Massif central): vegetation, development and present dynamics]. – *Acta Botanica Gallica* 150: 35–57.
- Tsubota H., Ageno Y., Estbanes B., Yamaguchi T. & Deguchi H. (2003): Molecular phylogeny of the *Grimmiales* (*Musci*) based on chloroplast *rbcL* sequences. – *Hikobia* 14: 55–70.
- Tuittila E. S., Vasander H. & Laine J. (2004): Success of re-introduced *Sphagnum* in a cutaway peatland. – *Boreal Environment Research* 8: 245–250.
- Turetsky M. R. (2003): The role of bryophytes in carbon and nitrogen cycling. – *Bryologist* 106: 395–409.
- Turner B. L., Baxter R. & Whitton B. A. (2003): Nitrogen and phosphorus in soil solutions and drainage streams in Upper Teesdale, northern England: implications of organic compounds for biological nutrient limitation. – *Science of the Total Environment* 314: 153–170.
- Tützen M., Mendil D., Sari H. & Hasemir E. (2003): AAS determination of heavy metals in moss samples of Giresun-Turkey. – *Fresenius Environmental Bulletin* 12: 1283–1286.

- Uchida M., Muraoka H., Nakatsubo T., Bekku Y., Ueno T., Kanda H. & Koizumi H. (2002): Net photosynthesis, respiration, and production of the moss *Sanionia uncinata* on a glacier foreland in the High Arctic, Ny-Alesund, Svalbard. – *Arctic Antarctic and Alpine Research* 34: 287–292.
- Uğur A., Özden B., Saç M. M. & Yener G. (2003): Biomonitoring of Po-210 and Pb-210 using lichens and mosses around a uraniumiferous coal-fired power plant in western Turkey. – *Atmospheric Environment* 37: 2237–2245.
- Uyar G. & Çetin B. (2004): A new check-list of the mosses of Turkey. – *Journal of Bryology* 26: 203–220.
- van der Putten N., Stieperaere H., Verbruggen C. & Ochyra R. (2004): Holocene palaeoecology and climate history of South Georgia (sub-Antarctica) based on a macrofossil record of bryophytes and seeds. – *Holocene* 14: 382–392.
- van der Velde M. & Bijlsma R. (2004): Hybridization and asymmetric reproductive isolation between the closely related bryophyte taxa *Polytrichum commune* and *P. uliginosum*. – *Molecular Ecology* 13: 1447–1454.
- van der Wal R. & Brooker R. W. (2004): Mosses mediate grazer impacts on grass abundance in arctic ecosystems. – *Functional Ecology* 18: 77–86.
- Vanderpoorten A. & Engels P. (2002): The effects of environmental variation on bryophytes at a regional scale. – *Ecography* 25: 513–522.
- Vanderpoorten A. & Jacquemart A. L. (2004): Evolutionary mode, tempo, and phylogenetic association of continuous morphological traits in the aquatic moss genus *Amblystegium*. – *Journal of Evolutionary Biology* 17: 279–287.
- Vanderpoorten A., Boles S. & Shaw A. J. (2003): Patterns of molecular and morphological variation in *Leucobryum albidum*, *L. glaucum*, and *L. juniperoides* (*Bryopsida*). – *Systematic Botany* 28: 651–656.
- Vanderpoorten A., Delesclaille L. M. & Jacquemart A. L. (2004): The bryophyte layer in a calcareous grassland after a decade of contrasting mowing regimes. – *Biological Conservation* 117: 11–18.
- Vanderpoorten A., Engels P. & Sotiaux A. (2004): Trends in diversity and abundance of obligate epiphytic bryophytes in a highly managed landscape. – *Ecography* 27: 567–576.
- Vanderpoorten A., Goffinet B., Hedenäs L., Cox C. J. & Shaw A. J. (2003): A taxonomic reassessment of the *Vittaceae* (*Hypnales*, *Bryopsida*): evidence from phylogenetic analyses of combined chloroplast and nuclear sequence data. – *Plant Systematics and Evolution* 241: 1–12.
- Vanderpoorten A., Hedenäs L. & Jacquemart A. L. (2003): Differentiation in DNA fingerprinting and morphology among species of the pleurocarpous moss genus, *Rhytidiadelphus* (*Hylocomiaceae*). – *Taxon* 52: 229–236.
- Vanderpoorten A., Hedenäs L., Cox C. J. & Shaw A. J. (2002): Circumscription, classification, and taxonomy of *Amblystegiaceae* (*Bryopsida*) inferred from nuclear and chloroplast DNA sequence data and morphology. – *Taxon* 51: 115–122. [Correction: *Taxon* 51: 633]
- Vanderpoorten A., Hedenäs L., Cox C. J. & Shaw A. J. (2002): Phylogeny and morphological evolution of the *Amblystegiaceae* (*Bryopsida*). – *Molecular Phylogenetics and Evolution* 23: 1–21.
- Vanderpoorten A., Shaw A. J. & Cox C. J. (2004): Evolution of multiple paralogous adenosine kinase genes in the moss genus *Hygroamblystegium*: phylogenetic implications. – *Molecular Phylogenetics and Evolution* 31: 505–516.
- Vellak K. (2003) [2004]: The bryological collection in the herbarium of the Institute of Zoology and Botany. – *Folia Cryptogamica Estonica* 40: 51–55.
- Vellak K., Paal J. & Liira J. (2003): Diversity and distribution pattern of bryophytes and vascular plants in a boreal spruce forest. – *Silva Fennica* 37: 3–13.
- Virtanen V. (2003): Phylogeny of the *Bartramiaceae* (*Bryopsida*) based on morphology and on *rbcL*, *rps4*, and *trnL-trnF* sequence data. – *Bryologist* 106: 280–296.
- Virtanen V. (2003): Sequence data and morphological characters in reconstructing the phylogeny of *Bartramiaceae*, *Bryophyta*. – *Cladistics* 19: 161.
- Vitt D. H., Halsey L. A., Bray J. & Kinser A. (2003): Patterns of bryophyte richness in a complex boreal landscape: Identifying key habitats at McClelland Lake Wetland. – *Bryologist* 106: 372–382.
- Vuori K. M., Siren O. & Luotonen H. (2004): Metal contamination of streams in relation to catchment silvicultural practices: a comparative study in Finnish and Russian headwaters. – *Boreal Environment Research* 8: 61–70.
- Wall D. P. & Herbeck J. T. (2003): Evolutionary patterns of codon usage in the chloroplast gene *rbcL*. – *Journal of Molecular Evolution* 56: 673–688.

- Wallberg P. & Moberg L. (2002): Evaluation of 20 years of environmental monitoring data around Swedish nuclear installations. – *Journal of Environmental Radioactivity* 63: 117–133.
- Wellman C. H., Osterloff P. L. & Mohiuddin U. (2003): Fragments of the earliest land plants. – *Nature* 425: 282–285.
- Werner O., Ros R. M., Cano M. J. & Guerra J. (2002): *Tortula* and some related genera (*Pottiaceae*, *Musci*): phylogenetic relationships based on chloroplast *rps4* sequences. – *Plant Systematics and Evolution* 235: 197–207.
- Werner O., Ros R. M., Cano M. J. & Guerra J. (2004): Molecular phylogeny of *Pottiaceae* (*Musci*) based on chloroplast *rps4* sequence data. – *Plant Systematics and Evolution* 243: 147–164.
- Werner O., Ros R. M., Guerra J. & Cano M. J. (2004): Inter-simple sequence repeat (ISSR) markers support the species status of *Weissia wimmeriana* (Sendtn.) Bruch & Schimp. (*Pottiaceae*, *Bryopsida*). – *Cryptogamie Bryologie* 25: 137–146.
- Werner O., Ros R. M., Guerra J. & Shaw A. J. (2003): Molecular data confirm the presence of *Anacolia menziesii* (*Bartramiaceae*, *Musci*) in southern Europe and its separation from *Anacolia webbii*. – *Systematic Botany* 28: 483–489.
- Wiklund K. (2003): Phosphorus concentration and pH in decaying wood affect establishment of the red-listed moss *Buxbaumia viridis*. – *Canadian Journal of Botany – Revue Canadienne de Botanique* 81: 541–549.
- Wiklund K., Rydin H. (2004): Colony expansion of *Neckera pennata*: Modelled growth rate and effect of microhabitat, competition, and precipitation. – *Bryologist* 107 (3): 293–301.
- Willemse M. T. M. (2003): Plant sexual reproduction: Aspects of interaction, history and regulation. – *Acta Biologica Cracoviensia, Ser. Botanica* 45: 19–26.
- Wolterbeek B. (2002): Biomonitoring of trace element air pollution: principles, possibilities and perspectives. – *Environmental Pollution* 120: 11–21.
- Xing-jiang L., Crosby M. & He S. (2001): Moss flora of China, English version, Vol. 2: *Fissidentaceae* through *Ptychomitriaceae*. – Missouri Botanical Garden Press, St. Louis, U. S. A. [283 pp.]
- Yip K. L. (2004): A revision of the genus *Cleistocarpidium* (*Ditrichaceae*, *Musci*). – *Journal of the Hattori Botanical Laboratory* 96: 211–222.
- Yoshikawa H., Ichiki Y., Sakakibara K., Tamura H. & Suiko M. (2002): The biological and structural similarity between lunularic acid and abscisic acid. – *Bioscience Biotechnology and Biochemistry* 66: 840–846.
- Zartman C. E. (2003): Habitat fragmentation impacts on epiphyllous bryophyte communities in central Amazonia. – *Ecology* 84: 948–954.
- Zechmeister H. G., Grodzińska K. & Szarek-Lukaszewska G. (2003): Bryophytes. – In: Markert B. A., Breure A. M. & Zechmeister H. G. (eds.), *Bioindicators and biomonitors. Principles, concepts and applications. Trace metals and other contaminants in the environment* 6, p. 329–376, Elsevier Science, Oxford.
- Zechmeister H. G., Hohenwallner D., Riss A. & Hanus-Illnar A. (2003): Variations in heavy metal concentrations in the moss species *Abietinella abietina* (Hedw.) Fleisch. according to sampling time, within site variability and increase in biomass. – *Science of the Total Environment* 301: 55–65.
- Zechmeister H. G., Schmitzberger I., Steurer B., Peterseil J. & Wrבka T. (2003): The influence of land-use practices and economics on plant species richness in meadows. – *Biological Conservation* 114: 165–177.
- Zechmeister H. G., Tribsch A., Moser D., Peterseil J. & Wrבka T. (2003): Biodiversity ‘hot spots’ for bryophytes in landscapes dominated by agriculture in Austria. – *Agriculture Ecosystems & Environment* 94: 159–167.
- Zechmeister H. G., Tribsel A. & Hehenwallner D. (2002): Die Moosflora von Linz und ihre Bedeutung für die Bioindikation. *Naturkundliches Jahrbuch der Stadt Linz* 48: 111–192.
- Zhang L. & Corlett R. T. (2003): Phytogeography of Hong Kong bryophytes. – *Journal of Biogeography* 30: 1329–1337.
- Zhuravleva E. N. & Ipatov V. S. (2003): Interrelations between *Sphagnum* (*Sphagnaceae*) and *Polytrichum commune* (*Polytrichaceae*) in bog pine forests. – *Botanicheskiy Zhurnal* 88: 20–27.
- Zielonka T. & Piątek G. (2004): The herb and dwarf shrubs colonization of decaying logs in subalpine forest in the Polish Tatra Mountains. – *Plant Ecology* 172: 63–72.