

## Bibliography

- Adler PH, Crosskey RW (2008) World blackflies (Diptera: Simuliidae): a fully revised edition of the taxonomic and geographical inventory. <http://entweb.clemson.edu/biomia/pdfs/blackflyinventory.pdf>
- Armitage P, Cranston PS, Pinder LCV (eds) (1995) The Chironomidae. The biology and ecology of non-biting midges. Chapman & Hall, London
- Askew RR (1988) The dragonflies of Europe. Harley Books, Martins, Essex
- Aubert J (1959) Plecoptera. Insecta Helvetica, 1
- Aukema B, Rieger C (eds) (1995) Catalogue of the Heteroptera of the Palearctic region, vol 1. The Netherland Entomological Society, Amsterdam
- Ball IR, Reynoldson TB (1981) British Planarians (Platyhelminthes: Tricladida). Keys and notes for the identification of the species. Cambridge University Press, Cambridge
- Barber-James HM, Gattoliat J, Sartori M, Hubbard MD (2008) Global diversity of mayflies (Ephemeroptera, Insecta). *Hydrobiologia* 595:339–350
- Barnard JL, Barnard CM (1983) Freshwater Amphipoda of the World, Part I and II. Hayfield Associates, Mt. Vernon, VA
- Barnes RD (1980) Invertebrate zoology, 4th edn. Saunders College, Philadelphia
- Bauernfiend E (1994a) Bestimmungsschlüssel für die Österreichischen Eintagsfliegen (Insecta: Ephemeroptera), 1. Teil. Wasser und Abwasser Suppl. 4/94:5-92
- Bauernfiend, E. (1994b) Bestimmungsschlüssel für die Österreichischen Eintagsfliegen (Insecta: Ephemeroptera), 2. Teil. Wasser und Abwasser Suppl. 4/94: 5-90
- Bauernfeind E, Humpesch UH (2001) Die Eintagsfliegen Zentraleuropas (Insecta: Ephemeroptera): Bestimmung und Ökologie. Verlag des Naturhistorischen Museums, Wien
- Bódis E, Nosek J, Oertel N, Tóth B, Fehér Z (2011) A comparative study of two *Corbicula* morphs (Bivalvia, Corbiculidae) inhabiting River Danube. *Int Rev Hydrobiol* 96(3):257–273
- Brinkhurst RO (1971) A guide for identification of British aquatic Oligochaeta, vol 22. Scientific Publications of the Freshwater Biological Association, Windermere, pp 1–55
- Brindle A (1967) The larvae and pupae of the British Cylindrotominae and Limoniinae (Diptera, Tipulidae). *Trans Soc Br Entomol* 17(7):151–216
- Brinkhurst RO, Jamieson BGM (1971) Aquatic Oligochaeta of the world. Oliver & Boyd, Edinburgh
- Buffagni A, Cazzola M, López-Rodríguez MJ, Alba-Tercedor J, Armanini DG (2009) Ephemeroptera. In: Schmidt-Kloiber A, Hering D (eds) Distribution and ecological preferences of European freshwater organisms, vol. 3. Pensoft, Sofia-Moscow
- Crosskey RW, Howard TM (2004) A revised taxonomic and geographical inventory of world blackflies (Diptera: Simuliidae). The Natural History Museum, London, pp 1–85, <http://www.nhm.ac.uk/entomology/projects/blackflies/index.html>
- Csabai Z, Szél Gy (1999) Checklist of Spercheidae, Hydrochidae, Helophoridae, Hydrophilidae and Hydraenidae of Hungary (Coleoptera). *Folia Entomol Hung* 60:213–230
- Edington JM, Hildrew AG (1981) Caseless Caddislarvae of the British Isles. Freshwater Biological Association Scientific Publication, Windermere
- Eggers TO, Martens A (2001) Bestimmungsschlüssel der Süßwasser-Amphipoda (Crustacea) Deutschlands. *Lauterbornia* 42:1–68
- Elliott JM (1996) British Freshwater Megaloptera and Neuroptera. A key with ecological notes, vol 54. Freshwater Biological Association, Windermere
- Elliott JM, Humpesch UH, Macan TT (1988) Larvae of the British Ephemeroptera. A key with ecological notes, vol 49. Freshwater Biological Association, Windermere
- Falkner G, Bank RA, Von Proschwitz T (2001) Check-list of the non-marine molluscan species-group taxa of states of northern, atlantic and central Europe (CLECOM I). *Heldia* 4:1–76

- Fehér Z, Majoros G, Varga A (2006) A scoring method for the assessment of rarity and conservation value of the Hungarian freshwater molluscs. *Heldia* 6(3–4):101–114
- Fehér Z, Zettler ML, Bozsó M, Szabó K (2009) An attempt to reveal the systematic relationship between *Theodoxus prevostianus* (C. Pfeiffer, 1828) and *Theodoxus danubialis* (C. Pfeiffer, 1828) (Mollusca, Gastropoda, Neritidae). *Mollusca* 27:95–107
- Fehér Z, Albrecht C, Major Á, Sereda S, Krízsik V (2012) Extremely low genetic diversity in the endangered striped nerite, *Theodoxus transversalis* (Mollusca, Gastropoda, Neritidae) – a result of ancestral or recent effects? *North-West J Zool* 8(2):300–307
- Fitter R, Manuel R (1986) *Freshwater life*. Collins, New York
- Fochetti R, Tierno de Figueroa JM (2008) Plecoptera. *Fauna d'Italia* 43:1–339
- Graf W, Murphy J, Dahl J, Zamora-Munoz C, López-Rodríguez MJ (2008) Trichoptera. In: Schmidt-Kloiber A, Hering D (eds) *Distribution and ecological preferences of European freshwater organisms*, vol 1. Pensoft, Sofia-Moscow
- Grayson RF (1971) The freshwater Hydras of Europe, vol 1. A review of the European species. *Arch Hydrobiol* 68:436–449
- Hartmann-Schröder G (1996) Annelida, Borstenwürmer, Polychaeta. 2. neubearbeitete Auflage. *Die Tierwelt Deutschlands* 58:1–648
- Hauer FR, Lamberti GA (1996) *Methods in stream ecology*. Academic, London
- Hickin NE (1967) *Caddis larvae*. Hutchinson, London
- Hinton HE (1955) On the respiratory adaptations, biology, and taxonomy of the Psephenidae, with notes on some related families (Coleoptera). *Proc Zool Soc Lond* 125:543–568
- Horn AJ, Goldman CR (1994) *Limnology*. McGraw-Hill, New York
- Horváth G, Varjú D (2004) Polarized light in animal vision polarization patterns in nature. Springer, Heidelberg
- Horváth G, Kriska Gy (2008) Polarization vision in aquatic insects, polarization patterns of waters and polarized ecological traps. In: Lancaster J, Briers RA (eds) *Aquatic insects: challenges to populations*. CABI, Wallingford, pp 204–229
- Horváth G, Malik P, Kriska Gy, Wildermuth H (2007) Ecological traps for dragonflies in a cemetery: attraction of *Sympetrum* species (Odonata: Libellulidae) by horizontally polarizing black gravestones. *Freshwater Biol* 52:1700–1709
- Horváth G, Majer J, Horváth L, Szivák I, Kriska Gy (2008) Ventral polarization vision in tabanids: horseflies and deerflies (Diptera: Tabanidae) are attracted to horizontally polarized light. *Naturwissenschaften* 95:1093–1100
- Horváth G, Kriska Gy, Malik P, Robertson B (2009) Polarized light pollution: a new kind of ecological photopollution. *Front Ecol Environ* 7(6):317–325
- Horváth G, Móra A, Bernáth B, Kriska Gy (2011) Polarotaxis in non-biting midges: female chironomids are attracted to horizontally polarized light. *Physiol Behav* 104:1010–1015
- Hynes HBN (1970) *The ecology of running waters*. Liverpool University Press, Liverpool
- Illies J (ed) (1978) *Limnofauna Europaea*. A checklist of the animals inhabiting European inland waters, with account of their distribution and ecology, 2nd revised and enlarged edn. G. Fischer/Swets & Zeitlinger, Stuttgart/Amsterdam
- Jansson A (1986) The Corixidae (Heteroptera) of Europe and some adjacent regions. *Acta Entomol Fenn* 47:1–94
- Kenk R (1974) Index of the genera and species of the freshwater Triclad (Turbellaria) of the world. *Smithsonian Contrib Zool* 183:1–90
- Kis B (1974) Plecoptera. *Fauna Republicii Socialiste Romania* 8(7):1–271
- Kiss O (2000) Review and results of Trichoptera research in Hungary up to the turn of the millennium. *J Hung Hydrol Soc* 80(4):241–246 (In Hungarian)
- Kjer KM, Blahnik RJ, Holzenthal RW (2002) Phylogeny of caddisflies (Insecta, Trichoptera). *Zool Scr* 31:83–91

- Kovács T, Bauernfeind E (2003) Checklist of the Hungarian mayfly fauna (Ephemeroptera). *Folia Entomol Hung* 64:69–84
- Kovács T, Ambrus A, Bánkuti K (1999) Data to the Hungarian mayfly (Ephemeroptera) fauna arising from collectings of larvae. *Folia historico-naturalia Musei matraensis* 23:157–170
- Kriska Gy, Andrikovics S (1997) The life–history and gut content of *Potamophylax nigricornis* (Trichoptera, Limnephilidae). *Opuscula Zool Budapest* 29–30:113–116
- Kriska Gy, Tittizer T (2009) *Wirbellose Tiere in den Binnengewässern Zentraleuropas*. Weissdorn, Jena
- Kriska Gy, Andrikovics S, Szitó A (1998a) Phenological data on a parasitic relationship between *Electrogena lateralis* (Curtis, 1834) (Ephemeroptera) and *Symbiocladius rhithrogenae* (Zavrel, 1924) (Chironomidae). *Opuscula Zool Budapest* 31:79–84
- Kriska Gy, Horváth G, Andrikovics S (1998b) Why do mayflies lay their eggs en masse on dry asphalt roads? Water–imitating polarized light reflected from asphalt attracts Ephemeroptera. *J Exp Biol* 200:2273–2286
- Kriska Gy, Csabai Z, Boda P, Malik P, Horváth G (2006) Why do red and dark-coloured cars lure aquatic insects? The attraction of water insects to car paintwork explained by reflection–polarization signals. *Proc Roy Soc B* 273:1667–1671
- Kriska Gy, Bernáth B, Horváth G (2007) Polarotaxis in a mayfly that needs not search for water: polarotactic water detection in *Palingenia longicauda* (Ephemeroptera). *Naturwissenschaften* 94:148–154
- Kriska Gy, Malik P, Szivák I, Horváth G (2008) Glass buildings on river banks as ‘polarized light traps’ for mass–swarming polarotactic caddis flies. *Naturwissenschaften* 95:461–467
- Kriska Gy, Bernáth B, Farkas R, Horváth G (2009) Degrees of polarization of reflected light eliciting polarotaxis in dragonflies (Odonata), mayflies (Ephemeroptera) and tabanid flies (Tabanidae). *J Insect Physiol* 55:1167–1173
- Lacourt AW (1968) A monograph of the freshwater Bryozoa – Phylactolaemata. *Zool verhand* 93
- Löbl I, Smetana A (eds) (2003) *Catalogue of palaearctic Coleoptera, vol 1. Archostemata – Myxophaga – Adephaga*. Apollo Books, Stenstrup
- Lubini V, Knispel S, Vincon G (2012) Die Steinfliegen der Schweiz, Bestimmung und Verbreitung - Les Plécoptères de Suisse, identification et distribution. *Fauna Helv* 27:1–270
- Macan MA (1973) *British Trichoptera*. Freshwater Biol Assoc 28
- Macan TT, Worthington EB (1951) *Life in lakes and rivers*. Collins, New York
- Malicky H (1983) *Atlas of European Trichoptera*. Dr. W. Junk Publishers, The Hague
- Málnás K, Polyák L, Prill É, Hegedüs R, Kriska Gy, Dévai Gy, Horváth G, Lengyel Sz (2011) Bridges as optical barriers and population disruptors for the mayfly *Palingenia longicauda*: an overlooked threat to freshwater biodiversity? *J Insect Conserv* 15:823–832
- McGavin GC (ed) (2001) *Insects*. Oxford University Press, Oxford
- McMafferty WP (1998) *Aquatic entomology*. Jones and Bartlett, Bredbury
- Móra A, Dévai Gy (2004) Checklist of the non-biting midges (Diptera: Chironomidae) of Hungary with notes on records and peculiarity of the occurrence of the species. *Acta Biologica debrecina, Supplementum oecologica hungarica* 12:39–207
- Morse JC (1997) Phylogeny of Trichoptera. *Annu Rev Entomol* 42:427–450
- Moss B (2000) *Ecology of fresh waters*. Blackwell Science, Oxford
- Mundy SP (1980) A key to the British and European freshwater Bryozoans, vol 41. Freshwater Biological Association, Windermere
- Neubert E, Neumann H (1999) *Annelida, Clitellata: Branchiobdellida, Acanthobdellea, Hirudinaria*. Süßwasserfauna von Mitteleuropa – Band 6/2. Spektrum Akademischer, Heidelberg
- Nilsson AN (ed) (1996) *Aquatic insects of North Europe. A taxonomic handbook, vol 1*. Apollo Books, Stenstrup
- Nilsson AN (ed) (1997) *Aquatic insects of North Europe. A taxonomic handbook, vol 2*. Apollo Books, Stenstrup

- Papp L (ed) (2001) Checklist of the Diptera of Hungary. Hungarian Natural History Museum, Budapest
- Quigley M (1977) Invertebrates of streams and rivers, a key to identification. Edward Arnold, London
- Reynoldson TB, Young JO (2000) A key to the freshwater triclads of Britain and Ireland with notes on their ecology, vol 58. Scientific Publications of the Freshwater Biological Association, Windermere, pp 1–72
- Savage AA (1989) Adults of the British Aquatic Hemiptera Heteroptera: a key with ecological notes, vol 50. Scientific Publications of Freshwater Biological Association, Windermere
- Schwab H (1999) Süßwassertiere. Klett, Stuttgart
- Stewart KW, Stark BP (2002) Nymphs of North American stonefly genera (Plecoptera). The Caddis Press, Columbus, OH
- Strebel H, Krauter D (1988) Das Leben im Wassertropfen. Kosmos Naturführer, Stuttgart
- Studemann D, Landolt P, Sartori M, Hefti D, Tomka I (1992) Ephemeroptera. Insecta Helv 9
- Teslenko VA, Zhiltzova LA (2009) Key to the stoneflies (Insecta, Plecoptera) of Russia and adjacent countries. Imagines and nymphs (in Russian). Russian Academy of Sciences, Dalnauka, Vladivostok
- Tierno de Figueroa JM, Sánchez-Ortega A, Membiela-Iglesia P, Luzón-Ortega JM (2003) Plecoptera. Fauna Iberica 22:1–404
- Wallace ID, Wallace B, Philipson GN (1990) Case-bearing Caddis Larvae of Britain and Ireland, vol 51. Freshwater Biological Association, Windermere
- Weaver JS III, Morse JC (1986) Evolution of feeding and case-making behavior in Trichoptera. J North American Benthol Soc 5(2):150–158
- Wetzel RG (1983) Limnology. Saunders College Publishing, Philadelphia, PA
- Zhi-Qiang Zhang (2011) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. Zootaxa 3148: 1–237
- Zwick P (2004) Key to the West Palaearctic genera of stoneflies (Plecoptera) in the larval stage. Limnologica 34:315–348

## Animal biodiversity

### Approximate number of described species in 2011

- Sponges – *Porifera*: 8,346 species  
 Cnidarians – *Cnidaria*: 10,105 species  
 Flatworms – *Platyhelminthes*: 29,285 species  
 Hairybacks – *Gastrotricha*: 790 species  
 Water Bears – *Tardigrada*: 1,157 species  
 Rotifers – *Rotifera*: 1,583 species  
 Horsehair Worms – *Nematomorpha*: 351 species  
 Roundworms – *Nematoda*: 24,783 species  
 Snails, Limpets and Mussels – *Mollusca*: 117,358 species  
 Segmented Worms – *Annelida*: 17,210 species  
*Chelicerata*: 113,894 species  
 Crustaceans – *Crustacea*: 66,914 species  
 Springtails – *Collembola*: 8,130 species  
 Mayflies – *Ephemeroptera*: 3,240 species  
 Dragonflies and Damselflies – *Odonata*: 5,899 species  
 Stoneflies – *Plecoptera*: 3,788 species  
 Water Bugs – *Heteroptera*: 103,590  
 Beetles – *Coleoptera*: 387,100 species  
 Net-winged insects – *Neuroptera*: 5,868 species  
*Megaloptera*: 354 species  
*Sialidae*, *Osmylidae*, *Sisyridae*, 294  
 Caddisflies – *Trichoptera*: 14,999 species  
 Moths – *Lepidoptera*: 157,424 species  
 True Flies – *Diptera*: 159,294 species  
 Moss Animals – *Bryozoa*: 10,941 species