

Currently, a query of "Statistics" in PSF (see table) finds 3623 valid species, with another 632 synonyms. Though these statistics are for extant taxa, a query may be run that adds another 228 fossil species. These taxa are supported by 2692 references that are used in 20035 citations.

**Plecoptera** Plecoptera Species File (Version 5.0/5.0)  
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Search for

**Species File**

**Statistics for Plecoptera:**

Authors	887	
Publications	724	
References	2692	
Citations	20035	
Depositories	169	
Images	total: 78	unique taxa: 48
Sound recordings	total: 2	unique taxa: 2
End points in keys	total: 16	unique taxa: 16
Specimen records	total: 6824	unique taxa: 2255
Superfamilies	total: 11	valid: 5; not valid: 6
Families	total: 32	valid: 16; not valid: 16
Subfamilies	total: 31	valid: 21; not valid: 10
Tribes	total: 19	valid: 14; not valid: 5
Genera	total: 526	valid: 302; not valid: 224
Subgenera	total: 2	valid: 2; not valid: 0
Species	total: 4255	valid: 3623; not valid: 632
Subspecies	total: 133	valid: 96; not valid: 37
Names at all levels	total: 5009	valid: 4079; not valid: 930

Please note: These counts do not include synonyms seen only in the list of citations. The counts do include extinct and fossil taxa unless requested otherwise. Run this program to count

Show statistics for:    
(any valid taxon at rank of genus or higher)

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DeWalt, R. E., M. D. Maehr, U. Neu-Becker and G. Stueber. 2017. Plecoptera Species File Online. Version 5.0/5.0. [retrieval date]. <http://Plecoptera.SpeciesFile.org>.

**RECENT PLECOPTERA LITERATURE (CALENDAR YEAR 2016 AND EARLIER).** Papers made available after 1 February 2017 will be included in the next issue. **If papers were missed, please bring these to the attention of the Managing Editor.** Drs. Bill P. Stark, J. M. Tierno de Figueroa, and Peter Zwick are thanked for reviewing and providing additions to this present list.

Alba Solans, M. and D. Garcia de Jalon. 2016. Basic tools for setting environmental flows at the regional scale: Application of the ELOHA framework in a Mediterranean basin. *Ecohydrology* 9(8):1517-1538.

Alexander, A.C., J.M. Culp, D.J. Baird and A.J. Cessna. 2016. Nutrient-insecticide interactions decouple density-dependent predation pressure in aquatic insects. *Freshwater Biology* 61(12):2090-2101.

Antorán-Pilar, E., M.J. López-Rodríguez, J.M. Luzón-Ortega and J.M. Tierno de Figueroa. 2016. Faunística y fenología de los plec6pteros (Insecta: Plecoptera) de arroyos mediterr6neos de Sierra Morena Occidental / Faunistic and phenology of the stoneflies (Insecta: Plecoptera) of Mediterranean streams from Western Sierra Morena. *Zoologica Baetica*, 27:25-38. (in Spanish)

Anzani, Y.M., M. Krisanti and Y. Wardiatno. 2016. The diversity and density of Plecoptera in the headwaters of Cisadane River, West Java, Indonesia. *Journal of Biodiversity and Environmental Sciences* 9(1):126-132.

Aschonitis, V.G., G. Castaldelli and E.A. Fano. 2016. Relations between environmental gradients and diversity indices of benthic invertebrates in lotic systems of northern Italy. *Web Ecology* 16(1):13-15.

Astudillo, M.R., R. Novelo-Guti6rrez, G. V6zquez, J.G. Garc6a-Franco and A. Ram6rez. 2016. Relationships between land cover, riparian vegetation, stream characteristics, and aquatic insects in cloud forest streams, Mexico. *Hydrobiologia* 768(1):167-181.

Avelino-Capistrano, F., L.S. Barbosa and G.L. de Almeida. 2015. Abund6ncia e Distribui6o Espacial e Sazonal de Imaturos de Plecoptera (Insecta) do Rio Marambaia, Ilha da Marambaia, Mangaratiba-RJ. / Abundance, spatial and seasonal distribution of Plecoptera Immatures (Insecta) from Rio Marambaia, Marambaia Island, Mangaratiba, RJ. *Ci6ncia Atual-Revista Cient6fica Multidisciplinar das Faculdades S6o Jos6*, 6(2):2-14. (In Portuguese)

Avelino-Capistrano, F., L.S. Barbosa and D.M. Takiya. 2016. Description of a new *Kempnyia* Klap6lek from Brazil (Plecoptera: Perlidae) with life stages associated using DNA barcodes. *Zootaxa* 4079(3):372-380.

Baldock, J.R., J.B. Armstrong, D.E. Schindler and J.L. Carter. 2016. Juvenile coho salmon track a seasonally shifting thermal mosaic across a river floodplain. *Freshwater Biology* 61:1454-1465.

Bere, T., T. Dalu, and T. Mwedzi. 2016. Detecting the impact of heavy metal contaminated sediment on benthic macroinvertebrate communities in tropical streams. *Science of the Total Environment* 572:147-156.

Beracko, P., A. Kušn6rov6, M. Partlov6 and J. Cicekov6. 2016. Community structure, life histories and secondary production of stoneflies in two small mountain streams with different degree of forest cover. *Journal of Limnology* 75(1):169-179.

Boehme, C., E. Zipper, S.H. Schoenholtz, D.J. Soucek and A.J. Timpano. 2016. Temporal dynamics of benthic macroinvertebrate communities and their response to elevated specific conductance in Appalachian coalfield headwater streams *Ecological Indicators* 64:171-180.

- Boumans, L. and J.M. Tierno de Figueroa. 2016. Introgression and species demarcation in western European *Leuctra fusca* (Linnaeus, 1758) and *L. digitata* Kempny, 1899 (Plecoptera: Leuctridae). *Aquatic Insects* 37:115-126.
- Bruno, M.C., M. Carolli and B. Maiolini. 2016. Settling distances of benthic invertebrates in a sediment mobilization simulation in semi-natural flumes. *Journal of Limnology* 75(1):180-192.
- Caires, A.M., S. Chandra and C.R. Nelson. 2016. Unique reproductive characteristics of Lake Tahoe's *Capnia lacustra* (Plecoptera: Capniidae), a stonefly in decline. *Freshwater Science* 35(4): 1291-1299.
- Cao, Y., B. Wang, J. Zhan, L. Wang, Y. Pan, Q. Wang, D. Jian and G. Deng. 2016. Lake macroinvertebrate assemblages and relationship with natural environment and tourism stress in Jiuzhaigou Natural Reserve, China. *Ecological Indicators* 62:182-190.
- Carlson, P.E., B.G. McKie, L. Sandin and R.K. Johnson. 2016. Strong land-use effects on the dispersal patterns of adult stream insects: Implications for transfers of aquatic subsidies to terrestrial consumers. *Freshwater Biology* 61(6):848-861.
- Ceneviva-Bastos, M., D.B. Prates, R. de Mei Romero, P.C. Bispo and L. Casatti. 2016. Trophic guilds of EPT (Ephemeroptera, Plecoptera, and Trichoptera) in three basins of the Brazilian Savanna. *Limnologica-Ecology and Management of Inland Waters*, in press.
- Chi, S.Y., J.X. Hu, M. Li and J.X. Zhen. 2016. Developing a baseline and tools for the future assessment of the ecological status of rivers within the Three Gorges Reservoir catchment, China. *Hydrobiologia* 775(1):185-196.doi:10.1007/s10750-016-2729-3
- Chen, Z-T. 2016. A new species of *Neoperla* (Plecoptera: Perlidae) from Zhejiang Province of China. *Zootaxa* 4093(4):589-594.
- Chen, Z-T. and Y-Z. Du. 2016. A new species of *Haploperla* from China (Plecoptera, Chloroperlidae). *ZooKeys* 572:1-6.
- Chen, Z.T. and Y.Z. Du. 2016. A new species of *Neoperla* from China, with a redescription of the female of *N. mnong* Stark, 1987 (Plecoptera, Perlidae). *ZooKeys* 616:103-113.
- Chen, Z-T. and Y.Z. Du. 2016. Contribution to the knowledge of *Neoperla* (Plecoptera: Perlidae) from Hainan Province of China. *Zootaxa* 4144(2):243-252.
- Chen, Z-T. and Du, Y-Z. 2016. The first records of *Mesocapnia* (Plecoptera: Capniidae) from China with description of a new species. *Zootaxa* 4139(2):285–293.
- Chen, Z.T. and Y.Z. Du. 2016. Two new species of *Haploperla* (Plecoptera: Chloroperlidae) from China. *Zootaxa* 4196(3):415-422.

Chen, Z. T., H.Y. Wu and Y.Z. Du. 2016. The nearly complete mitochondrial genome of a stonefly species, *Styloperla* sp. (Plecoptera: Styloperlidae). Mitochondrial DNA Part A 27(4), 2728-2729.

Clayton, P.D. and R.G. Pearson. 2016. Harsh habitats? Waterfalls and their faunal dynamics in tropical Australia. *Hydrobiologia* 775(1):123-137.

Clements, W.H., R. G. Stahl, Jr and R.C. Landis. 2015. Ecological effects of Biochar on the structure and function of stream benthic communities. *Environmental Science and Technology* 49(24):14649-14654.

Conroy, E., J.N. Turner, A. Rymaszewicz, M. Bruen, J.J. O'Sullivan, D.M. Lawler, H. Lally and M. Kelly-Quinn. 2016. Evaluating the relationship between biotic and sediment metrics using mesocosms and field studies. *Science of the Total Environment* 568: 1092-1101.

Cordeiro, G.G., N.D.M. Guedes, T.B. Kisaka and G.B. Nardoto. 2016. Rapid assessment of ecological integrity in urban streams of the Corumbá watershed in the Midwest of Brazil. *Revista Ambiente & Água* 11(3):702-710.

Cornejo, A. and P. E. Gutiérrez Fonseca. 2015. Orden Plecoptera (Insecta) en Panamá: listado, distribución de especies, comparación con la riqueza taxonómica regional / Order Plecoptera (Insecta) in Panama: list, species distribution, comparison with the regional taxonomic richness. *Puente Biológico* 7:109-129. (in Spanish)

Cui, Y.Y., O. Béthoux, B. Kondratieff, C. Shih, and D. Ren. 2016. The first fossil salmonfly (Insecta: Plecoptera: Pteronarcyidae), back to the Middle Jurassic. *BMC Evolutionary Biology* 16(217) doi:[10.1186/s12862-016-0787-9](https://doi.org/10.1186/s12862-016-0787-9)

Custer, K.W., J.P. Kochersberge, P.D. Anderson, K.J. Fetters, S. Hummel and G.A. Burton. 2016. Macroinvertebrate responses to nickel in multisystem exposures. *Environmental Toxicology and Chemistry* 35(1):101-114.

Dallas, H.F. 2016. The influence of thermal history on upper thermal limits of two species of riverine insects: the stonefly *Aphanicerca capensis*, and the mayfly *Lestagella penicillata*. *Hydrobiologia* 781(1):95-108.

Darilmaz, M.C., A. Salur, D. Murányi and G. Vinçon. 2016. Contribution to the knowledge of Turkish stoneflies with annotated catalogue (Insecta: Plecoptera). *Zootaxa* 4074(1):1-74.

De la Cruz, I.N.B., O.M. Nuñez, and C.P. Lin. 2016. Description of a new Oriental stonefly species, *Phanoperla constanspina* (Plecoptera: Perlidae) from Mindanao, Philippines and association of life stages using DNA barcoding. *Zootaxa* 4193(1):102-116.

- DelVecchia, A.G., J.A. Stanford, and X.M. Xu. 2016. Ancient and methane-derived carbon subsidizes contemporary food webs. *Nature Communications* 7(13163) doi: 10.1038/ncomms13163
- Derka, T. and J.M. Tierno de Figueroa. 2016. Contribution to the knowledge on habitat, distribution and morphological variability of two species *Anacroneuria* Klapálek, 1909 (Plecoptera, Perlidae) from Southern Venezuela. *Boletín de la Asociación española de Entomología*, 40(3-4):341-349.
- DeWalt, R.E., D. Dmitriev, and M. Yoder. 2016. Progress on digitization of the Kenneth Wilson Stewart Plecoptera Collections at the Illinois Natural History Survey Perla 34:49-69.
- DeWalt, R.E., S.A. Grubbs, B.J. Armitage, R.W. Baumann, S.M. Clark and M.J. Bolton. 2016. Atlas of Ohio Aquatic Insects: Volume II, Plecoptera. *Biodiversity Data Journal* 4:e10723. doi:10.3897/BDJ.4.e10723
- DeWalt, R.E., E.J. South, D.R. Robertson, J.E. Marburger, W.W. Smith and V. Brinson. 2016. Mayflies, stoneflies, and caddisflies of streams and marshes of Indiana Dunes National Lakeshore, USA. *ZooKeys* 556:43-63.
- Di Sabatino, A., G. Cristiano, D. Di Sanza, P. Lombardo, C. Giansante, R. Caprioli, P. Vignini, F.P. Miccoli and B. Cicolani 2015. Leaf-Nets (LN): A new quantitative method for sampling macroinvertebrates in non-wadeable streams and rivers. *River Research and Applications* 32(6):1242-1251
- Du, Y.Z. and Z.T. Chen. 2016. A remarkable new species of winter stonefly (Plecoptera: Capniidae) from southeastern China. *Zootaxa* 4170(1):187-193.
- Duarte, T. and L.S. Lecci. 2016. New species and records of *Anacroneuria* (Plecoptera: Perlidae) from the northeastern semi-arid region of Brazil. *Zootaxa* 4079(2):291-300.
- Dürregger, A. 2016. Aktualisierter Kenntnisstand der Eintags-, Stein- und Köcherfliegenfauna (Insecta: Ephemeroptera, Plecoptera, Trichoptera) Salzburgs mit Neufunden für das Bundesland/Updated state of knowledge on the mayfly, stonefly and caddisfly fauna (Insecta: Ephemeroptera, Plecoptera, Trichoptera) of Salzburg with new recordings for the province. *Lauterbornia* 81: 123–133 (in German).
- Dussex, N., A. Chuah and J.M. Waters. 2016. Genome-wide SNPs reveal fine-scale differentiation among wingless alpine stonefly populations and introgression between winged and wingless forms. *Evolution* 70(1):38-47.
- Elbrecht, V. and F. Leese. 2016. The mitochondrial genome of the Arizona Snowfly *Mesocapnia arizonensis* (Plecoptera, Capniidae). *Mitochondrial DNA Part A*, 27(5):3365-3366.

- Elbrecht, V., A.J. Beermann, G. Goessler, J. Neumann, R. Tollrian, R. Wagner, A. Wlecklik, J.J. Piggott, C.D. Matthaei and F. Leese. 2016. Multiple-stressor effects on stream invertebrates: a mesocosm experiment manipulating nutrients, fine sediment and flow velocity. *Freshwater Biology* 61(4):362-375.
- Ellis, L.E. and N.E. Jones. 2016. A test of the Serial Discontinuity Concept: Longitudinal trends of benthic invertebrates in regulated and natural rivers of northern Canada. *River Research and Applications* 32(3):462-472.
- Evseeva, A.A. 2016. The zoobenthos communities of streams in the Katon-Karagai State National Natural Park(the Bukhtarma River Basin, Kazakhstan). *Nature Conservation Research* 1(2):19-29.
- Feeley, H.B., J.R. Baars and M. Kelly-Quinn. 2016. The stonefly (Plecoptera) of Ireland—distribution, life Histories & ecology. National Biodiversity Data Centre, Waterford. Ireland.
- Fochetti, R. and M. Ceci. 2016. *Indonemoura annamensis*—a new species of stonefly from Vietnam (Plecoptera: Nemouridae). *Zootaxa* 4121(1):85-88.
- Frainer, A., J. Jabiol, M.O. Gessner, A. Bruder, E. Chauvet and B.G. McKie. 2016. Stoichiometric imbalances between detritus and detritivores are related to shifts in ecosystem functioning. *Oikos* 125(6):861-671.
- Frame, J.L., J.I. Jones, S.J. Ormerod, J.P. Sadler and M.E. Ledger. 2016. Biological barriers to restoration: testing the biotic resistance hypothesis in an upland stream recovering from acidification. *Hydrobiologia* 777(1):161-170.
- Frisch, J.R., J.T. Peterson, K.K. Cecala, J.C. Maerz, C.R. Jackson, T.L. Gragson and C.M. Pringle. 2016. Patch occupancy of stream fauna across a land cover gradient in the southern Appalachians, USA. *Hydrobiologia* 773(1):163-175.
- Froehlich, C.G. 2016. *Tupiperla* (Plecoptera: Gripopterygidae) from southwestern Minas Gerais State, Brazil, with the description of *Tupiperla amorimi* n. sp. *Zootaxa* 4103(2):174-176.
- Gattolliat, J.L., G. Vinçon, S. Wyler, J. Pawlowski, and M. Sartori. 2016. Toward a comprehensive COI DNA barcode library for Swiss Stoneflies (Insecta: Plecoptera) with special emphasis on the genus *Leuctra*. In: Macadam, C.R. & Stockan, J.A. (eds.), Proceedings of the Joint Meeting of the XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera. *Zoosymposia*, 11:135-155.
- Godoy, B.S., J. Simião-Ferreira, S. Lodi and L.G. Oliveira. 2016. Functional process zones characterizing aquatic insect communities in streams of the Brazilian Cerrado. *Neotropical Entomology* 45(2):159-169.

Graf, W., P. Leitner, I. Hanetseder, L.D. Ittner, F. Dossi, and C. Hauer. 2016. Ecological degradation of a meandering river by local channelization effects: a case study in an Austrian lowland river. *Hydrobiologia* 772(1):145-160.

Granados-Martínez, C., B. Zúñiga-Céspedes and J. Acuña-Vargas. 2016. Diets and trophic guilds of aquatic insects in Molino River, La Guajira, Colombia. *Journal of Limnology* 75(1s) doi: 10.4081/jlimnol6.1396

Grant, C.J., A.K. Lutz, A.D. Kulig and M.R. Stanton. 2016. Fracked ecology: Response of aquatic trophic structure and mercury biomagnification dynamics in the Marcellus Shale Formation. *Ecotoxicology* 25(10):1739-1750.

Greenwood, M.J. and D.J. Booker. 2016. Influence of hydrological regime and land cover on traits and potential export capacity of adult aquatic insects from river channels. *Oecologia* 180(2):551-566.

Grubbs, S.A. 2016. Taxonomic notes on the eggs of eastern Nearctic *Isoperla* (Plecoptera: Perlodidae: Isoperlinae). *Illiesia* 12(8):35-41.

Hallart, G. and J. Le Doare. 2016. Addition to the French stonefly fauna: *Amphinemura borealis* (Morton, 1894) (Plecoptera, Nemouridae). *Ephemera* 16(2):93-96.

Hamada, N., J.O. Silva and M.K. Pedroza. 2016. A new species of *Enderleina* Jewett (Plecoptera, Perlidae) from Amazonas State, Brazil. *Zootaxa* 4098(2):392-400.

Hamid, Ab. S., M. Fakhrullah and A. Hashim. 2016. Role of Ephemeroptera, Plecoptera and Trichoptera (Insecta) functional feeding groups in leaf decomposition in tropical river. *Journal of Biodiversity and Environmental Sciences* 9(1):204-213.

Heth, R.L.S., D.E. Bowles and J.E. Havel. 2016. Potential impacts of stream crossing traffic on macroinvertebrate communities in the Missouri Ozark River. *River Research and Applications* 32(5):925-934. doi:10.1002/rra.2898

Hohmann, M. 2016. Steinfliegen (Plecoptera) Bestandsentwicklung. Stand: Februar 2013. pp. 658-665 in: Landesamt für Umweltschutz Sachsen-Anhalt, Frank, D. and P. Schnitter (eds), *Pflanzen und Tiere in Sachsen-Anhalt Ein Kompendium der Biodiversität*. Rangsdorf (in German).

Hohmann, M. and D. Spitzenberg. 2016. Die Wasserinsekten der Selke im Harz und Harzvorland (Sachsen-Anhalt) unter besonderer Berücksichtigung von Steinfliegen, wasserbewohnenden Käfern und Köcherfliegen (Plecoptera, Coleoptera, Trichoptera). [The aquatic insects of the river Selke (Harz Mountains, Saxony-Anhalt, Germany) in special consideration of stoneflies, water beetles and caddisflies (Plecoptera, Coleoptera, Trichoptera)]. *Lauterbornia* 81:135–154. (In German)

Hubáčková, L., V. Rádková, J. Bojková, V. Syrovátka, V. Polášková, J. Schenková and M. Horský. 2016. Diversity patterns of aquatic specialists and generalists: contrasts among two spring-fen mesohabitats and nearby streams. *Biologia* 71(6):678-687.

Hwang, J.M. and D. Murányi. 2015. Checklist of the Korean Plecoptera. *Entomological Research Bulletin* 31(2): 120-125.

Jonsson, M. and K. Stenroth. 2016. True autochthony and allochthony in aquatic–terrestrial resource fluxes along a landuse gradient. *Freshwater Science* 35(3):882-894.

Jordan, S., J.J. Giersch, C.C. Muhlfeld, S. Hotaling, L. Fanning, T.H. Tappenbeck and G. Luikart. 2016. Loss of genetic diversity and increased subdivision in an endemic alpine stonefly threatened by climate change. *PloS One* 11(6)  
<http://dx.doi.org/10.1371/journal.pone.0157386>

Kaboré, I., O. Moog, M. Alp, W. Guenda, T. Koblinger, K. Mano, A. Ouéda, R. Ouédraogo, D. Trauner and A.H. Melcher. 2016. Using macroinvertebrates for ecosystem health assessment in semi-arid streams of Burkina Faso. *Hydrobiologia* 766(1):57-74.

Kaelin, K. and F. Altermatt. 2016. Landscape-level predictions of diversity in river networks reveal opposing patterns for different groups of macroinvertebrates. *Aquatic Ecology* 50(2):283-295.

Kalyoncu, H. and A. Güneş. 2016. Plecoptera fauna of Alara and Karpuz streams and determination of their relationships with water quality. *World Academy of Science, Engineering and Technology, International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering* 10(7):752-759.

Karaouzas, I., A. Andriopoulou, T. Kouvarda and D. Murányi. 2016. An annotated checklist of the Greek Stonefly Fauna (Insecta: Plecoptera). *Zootaxa* 4111(4):301-333.

Kefford, B.J., D. Buchwalter, M. Canedo-Argüelles, J. Davis, R.P. Duncan, A. Hoffmann and R. Thompson 2016. Salinized rivers: degraded systems or new habitats for salt-tolerant faunas? *Biology Letters* 12(3): doi: 10.1098/rsbl.2015.1072.

King, R.S., M. Scoggins and A. Porras. 2016. Stream biodiversity is disproportionately lost to urbanization when flow permanence declines: evidence from southwestern North America. *Freshwater Science* 35(1):340-352.

Kjærstad, G., J.V. Arnekleiv and J.D.M. Speed. 2015. Effects of three consecutive Rotenone treatments on the benthic macroinvertebrate fauna of the River Ognå, Central Norway. *River Research and Applications* 32(4):572-582.

Kong, F. and W. Li. 2016. Type designation for *Neoperla furcomaculata* Kong & Li, 2014 (Plecoptera: Perlidae). *Illiesia* 12(10):59.



Kosnicki, E., S.A. Sefick, M.H. Paller, M.S. Jerrell, B.A. Prusha, S.C. Sterrett, T.D. Tuberville and J.W. Feminella. A stream multimetric macroinvertebrate index (MMI) for the Sandhills Ecoregion of the southern Plains, USA. *Environmental Management* 58(4):741-751.

Küttner, R., B.Plesky, H. Voigt. 2016. Interessante und neue Nachweise von Wasserinsekten in Sachsen (Ephemeroptera, Plecoptera, Trichoptera, Megaloptera)/[Interesting and new records of water insects in Saxony (Ephemeroptera, Plecoptera, Trichoptera, Megaloptera). *Entomologische Nachrichten und Berichte* 60(3-4): 177-184.(in German)

Li, W. and X. Qin. 2016. The second species of *Phanoperla* (Plecoptera: Perlidae) from China, *P. hainana* sp. nov., from Hainan Island. *Zootaxa* 4162(1):193-196.

Li, W., J. Yang and D. Yang. 2016. Two new species of *Sphaeronemoura* (Plecoptera: Nemouridae) from Oriental China *Zootaxa* 4208(3):293-300.

Li, W., Y. Wang and D. Yang. 2016. Two new *Amphinemura* (Plecoptera: Nemouridae) from Gaoligong Mountains of Yunnan, China. *Zootaxa* 4200(3): 381-388.

Li, W., K. Li, R. Wang and D. Yang. 2016. The first description of the larvae of the Chinese species *Paraleuctra tianmushana* Li & Yang (Plecoptera: Leuctridae). *Zootaxa* 4061(1):93-100.

Libório, R. A. and M. O. Tanaka. 2016. Does environmental disturbance also influence within-stream beta diversity of macroinvertebrate assemblages in tropical streams? *Studies on Neotropical Fauna and Environment* 51(3): 206–214.

Liebold, A.M., T. Yamanaka, A. Roques, S. Augustin, S.L. Chown, E.G. Brockerhoff and P. Pyšek. 2016. Global compositional variation among native and non-native regional insect assemblages emphasizes the importance of pathways. *Biological Invasions* 18(4):893-905.

Loskutova, O.A. and L.A. Zhiltzova. 2016. Wing and body size polymorphism in populations of the stonefly *Arcynopteryx dichroa* McL. (Plecoptera: Perlodidae) in the Ural Mountains, Russia. *Polar Research* 35, 26596, <http://dx.doi.org/10.3402/polar.v35.26596>

Lønsmann Iversen, L.L., D. Jacobsen and K. Sand-Jensen. 2016. Are latitudinal richness gradients in European freshwater species only structured according to dispersal and time? *Ecography* 39:001-003.

Macadam, C.R. 2016. The current status of British mayflies and stoneflies. In: Macadam, C.R. & Stockan, J.A. (eds.), *Proceedings of the Joint Meeting of the XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera*. *Zoosymposia*, 11:89-100.

- Madsen, B.L. and P. Aagaard. 2016. Behaviour and dispersal in adult *Taeniopteryx nebulosa* (Linnaeus, 1758) and *Perlodes microcephalus* (Pictet, 1833) (Plecoptera) in Denmark. *Aquatic Insects* 37(1):37-57.
- Magbanua, F.S., C.R. Townsend, K.J. Hageman, J.J. Piggott and C.D. Matthaei. 2016. Individual and combined effects of fine sediment and glyphosate herbicide on invertebrate drift and insect emergence: a stream mesocosm experiment. *Freshwater Science* 35(1):139-151.
- Manko, P., M.J. López-Rodríguez, J.M. Tierno de Figueroa, L. Hrivniak L. Papyan M. Harutyunyan and J. Oboňa. 2016. Nymphal feeding habits of *Perla pallida* (Plecoptera: Perlidae) from Armenia. *Biologia* 71(3):328-333.
- Markos, P.D., M.D. Kaller and W.E. Kelso. 2016. Channel stability and the structure of coastal stream aquatic insect assemblages. *Fundamental and Applied Limnology/Archiv für Hydrobiologie* 188(3):187-199.
- Martin, G.K., S.J. Adamowicz and K. Cottenie. 2016. Taxonomic resolution based on DNA barcoding affects environmental signal in metacommunity structure. *Freshwater Science* 35(2):701-711.
- Mayorga, A. 2016. A new species of *Anacroneuria* Klapálek (Plecoptera: Perlidae) and complementary descriptions of three additional species from Mexico, with comments on the current knowledge of Mexican species of the genus. *Illiesia*, 12(12):64-73.
- Mayorga, A. and R. Barba-Álvarez. 2016. Complementary description of *Anacroneuria izapa* (Plecoptera: Perlidae) from Mexico. *Illiesia* 12(7):31-34.
- Mbaka, J.G., C.M. M'Erimba, H.T. Karanja, J.M. Mathooko and M.W. Mwaniki. 2016. Does the exclusion of meiofauna affect the estimation of biotic indices using stream invertebrates? *African Zoology* 51(2):91-97.
- McCulloch, G.A., G.P. Wallis and J.M. Waters, 2016. A time-calibrated phylogeny of southern hemisphere stoneflies: Testing for Gondwanan origins. *Molecular Phylogenetics and Evolution* 96:150-160.
- Mengistie, E., A. Ambelu, T. Van Gerven and I. Smets. 2016. Impact of tannery effluent on the self-purification capacity and biodiversity level of a river. *Bulletin of Environmental Contamination and Toxicology* 96(3):369-375.
- Mirčić, D., K. Stojanović, I. Živić, D. Todorović, D. Stojanović, Z. Dolićanin and V. Perić-Mataruga. 2015. The trout farm effect on *Dinocras megacephala* (Plecoptera: Perlidae) larvae: Antioxidative defense. *Environmental Toxicology and Chemistry* 35(7): 1775-1782.

Moroz, M.D. and T.P. Lipinskaya. 2016. The stoneflies (Plecoptera) of Belarus: Fauna and biotopic distribution. *Entomological Review* 96(2):168-174.

Mukundarajan, H., T.C. Bardon, D.H. Kim and M. Prakash. 2016. Surface tension dominates insect flight on fluid interfaces. *Journal of Experimental Biology* 219(5): 752-766.

Murányi, D. and T. Kovács. 2015. Review and contribution to the Plecoptera fauna of Sălaj County, Romania. *Studia Universitatis "Vasile Goldiș", Seria Științele Vieții* 25(4):255-258.

Murányi, D. and W. Li. 2016. On the identity of some Oriental Acroneuriinae taxa (Plecoptera: Perlidae), with an annotated checklist of the subfamily in the realm. *Opuscula Zoologica (Budapest)* 47(2):173-196.

Murányi, D., M. Gamboa and A. Vera. 2016. Lost and found: the Plecoptera types of Blanchard and Mabilie, with further contributions to the stoneflies of Chile. *Zootaxa* 4200(4):544-560.

Murányi, D., T. Kovács and K.M. Orci. 2016. Contribution to the taxonomy and biology of two Balkan endemic *Isoperla* Banks, 1906 (Plecoptera: Perlodidae) species. *In: Macadam, C.R. & Stockan, J.A. (eds.), Proceedings of the Joint Meeting of the XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera. Zoosymposia*, 11: 73-88.

Mynott, J.H. and G. Theischinger. 2016. A new species of *Leptoperla* Newman, 1839 (Plecoptera: Gripopterygidae). *Illiesia* 12(11):60-63.

Nagasawa, T. and H. Abé. 2015. Host insects infested with aquatic mites (Acari: Hydrachnidiae and Stygothrombiae) in Kanagawa and Shizuoka prefectures in Japan. *Acta Arachnologica* 64(2):71-73.

Nelson, C.H. 2016. About the frequency of variously sized genera and various sized families in Plecoptera (Insecta) classification. Pp. 67-81. *In: Yoshimura, M. & Takemon, Y. (eds.). Biology of Inland Waters, Suppl. 3, International Progress in Ephemeroptera and Plecoptera Research, Proceedings of the 13th International Conference on Ephemeroptera and the 17th International Symposium on Plecoptera (Osaka).*

Novaes, M.C. and P. da Conceição Bispo. 2016. A new species and records of Gripopterygidae (Plecoptera) from Rio Grande do Sul State, southern Brazil. *Zootaxa* 4175(5): 487-490.

Novaes, M.C., P. da Conceição Bispo and M. de Carvalho Gonçalves. 2016. A new species of *Anacroneuria* Klapálek, 1909 (Plecoptera: Perlidae) from Espírito Santo State, southeastern Brazil and comments on additional species. *Zootaxa* 4208(1):94-98.

- O'Dowd, A.P. and A. Chin. 2016. Do bio-physical attributes of steps and pools differ in high-gradient mountain streams? *Hydrobiologia* 776(1):67-83.
- Ohgane, Y. and S. Uchida 2016. Revision of the genus *Stavsolus* (Plecoptera, Perlodidae) from Japan, with special reference to the morphology of epiproct. Pp. 109-133. *In*: Yoshimura, M. & Takemon, Y. (eds). *Biology of Inland Waters, Suppl. 3, International Progress in Ephemeroptera and Plecoptera Research, Proceedings of the 13th International Conference on Ephemeroptera and the 17th International Symposium on Plecoptera (Osaka)*.
- Ohta, T., S. Matsunaga, S. Niwa, K. Kawamura and T. Hiura. 2016. Detritivore stoichiometric diversity alters litter processing efficiency in a freshwater ecosystem. *Oikos* 125(8):1162-1172.
- Olson, A.R., T.W. Stewart and J.R. Thompson. 2016. Direct and indirect effects of human population density and land use on physical features and invertebrates of Iowa (USA) streams. *Urban Ecosystems* 19(1):159-180.
- Parr, T.B., C.S. Cronan, T.J. Danielson, L. Tsomides and K.S. Simon. 2016. Aligning indicators of community composition and biogeochemical function in stream monitoring and ecological assessments. *Ecological Indicators* 60:970-979.
- Peralta-Maraver, I., M.J. López-Rodríguez and J.M. Tierno de Figueroa. 2016. Structure, dynamics and stability of a Mediterranean river food web. *Marine and Freshwater Research* <http://dx.doi.org/10.1071/MF15154>.
- Pessacq, P. 2016. Redescription of *Chilenoperla puerilis* (Gripopterygidae: Plecoptera) from the eastern Andes of Patagonia. *Zootaxa* 4109(1):89-95.
- Pond, G.J., K.M. Fritz, and B.R. Johnson. Macroinvertebrate and organic matter export from headwater tributaries of a Central Appalachian stream. *Hydrobiologia* 779:1-17.
- Potikha, E.V. 2015. A taxonomic list of the mayflies, stoneflies and caddisflies (Insecta: Ephemeroptera, Plecoptera and Trichoptera) of the Sikhote-Alin Biosphere Reserve. *Achievements in the Life Sciences* 9(1):22-31.
- Rebora, M., J.M. Tierno de Figueroa and S. Piersanti. 2016. Antennal sensilla of the stonefly *Dinocras cephalotes* (Plecoptera: Perlidae). *Arthropod Structure & Development* 45:552-561
- Reding, J.P.G., B. Launay, A. Ruffoni, G. Vinçon and L. Boumans. 2016. A new species of *Zwicknia* Murányi (Plecoptera, Capniidae) from the French and Swiss Jura Mountains, the French Massif Central, and the French Middle Rhône Region. *Zootaxa* 4121(2):133-146.

- Ribeiro, J.M.F. and I. de Sousa Gorayeb. 2016. Key to Plecoptera nymphs from the Brazilian Amazon (Insecta). *Zootaxa* 4208 (5):433-445.
- Robinson, J., J.A. Fordyce and C.R. Parker. 2016. Conservation of aquatic insect species across a protected area network: null model reveals shortfalls of biogeographical knowledge. *Journal of Insect Conservation* 20(4):565-581.
- Saltveit, S.J. and J.E. Brittain 2016. Contrasting life cycle strategies in mountain and lowland populations of the stonefly, *Amphinemura standfussi*. Pp. 43-50. *In*: Yoshimura, M. & Takemon, Y. (eds.). *Biology of Inland Waters, Suppl. 3, International Progress in Ephemeroptera and Plecoptera Research, Proceedings of the 13th International Conference on Ephemeroptera and the 17th International Symposium on Plecoptera (Osaka)*.
- Savić, A., D. Dmitrović and V. Pešić. 2016. Ephemeroptera, Plecoptera, and Trichoptera assemblages of karst springs in relation to some environmental factors: a case study in central Bosnia and Herzegovina. *Turkish Journal of Zoology* 40, doi:10.3906/zoo-1512-31.
- Scheibener, S.A., V.S. Richardi, and D.B. Buchwalter. 2016. Comparative sodium transport patterns provide clues for understanding salinity and metal responses in aquatic insects. *Aquatic Toxicology* 171:20-29.
- Schmitt, R., A.E. Siegloch, A.L.L. da Silva, L.K. Lisboa and M.M. Petrucio. 2016. Temporal variation in the Ephemeroptera, Plecoptera and Trichoptera community in response to environmental drivers in a subtropical stream. *Journal of Insect Biodiversity* 4(19):1-12.
- Scholl, E.A., H.M. Rantala, M.R. Whiles and G.V. Wilkerson. 2016. Influence of flow on community structure and production of snag-dwelling macroinvertebrates in an impaired low-gradient river. *River Research and Applications* 32:677-688.
- Seligmann, H. 2016. Sharp switches between regular and swinger mitochondrial replication: 16S rDNA systematically exchanging nucleotides A<-> T+ C<-> G in the mitogenome of *Kamimuria wangi*. *Mitochondrial DNA Part A* 27(4):2440-2446.
- Seymour, M., K. Deiner and F. Altermatt. 2016. Scale and scope matter when explaining varying patterns of community diversity in riverine metacommunities. *Basic and Applied Ecology* 17(2):134-144.
- Seymour, M., K. Seppälä, E. Mächler and F. Altermatt. 2016. Lessons from the macroinvertebrates: species-genetic diversity correlations highlight important dissimilar relationships. *Freshwater Biology* 61(11):1819-1829.
- Sheldon, A.L. 2016. Mutualism (carpooling) of ecologists and taxonomists. *Biodiversity and Conservation* 25(1):187-191.

- Shimizu, T. 2016. Dates, validity and spelling of Japanese stoneflies (Plecoptera) described by Shonen Matsumura. *Illiesia* 12(6):27-30.
- Silva, D.R., R. Ligeiro, R.M. Hughes and M. Callisto. 2016. The role of physical habitat and sampling effort on estimates of benthic macroinvertebrate taxonomic richness at basin and site scales. *Environmental Monitoring and Assessment* 188(6):1-12.
- Slavevska-Stamenković, V., B. Rimcheska, Y. Vidinova, V. Tyufekchieva, M. Ristovska, S. Smiljkov, M. Paunović and D. Prelić. 2016. New data on Ephemeroptera, Plecoptera and Trichoptera from the Republic of Macedonia. *Acta Zoologica Bulgarica* 68(2):199-206.
- Song, N., H. Li, F. Song and W.Z. Cai. 2016. Molecular phylogeny of Polyneoptera (Insecta) inferred from expanded mitogenomic data. *Scientific Reports* 6(36175) doi: 0.1038/srep36175
- Stark, B.P. and A.B. Harrison. 2016. The banded-wing *Moselia* (Plecoptera: Leuctridae) revisited. *Illiesia* 12(9):42-58.
- Stark, B.P. A.B. Harrison and K.C. Nye. 2016. Records of an uncommon stonefly, *Nemocapnia carolina* Banks (Plecoptera: Capniidae), in South Carolina and nearby states. *Illiesia* 12(2):10-14.
- Stark, B.P., A.B. Harrison, B.C. Kondratieff, R.W. Baumann and K.C. Nye. 2016. Distribution of the Smoky Willowfly, *Bolotoperla rossi* (Frison) (Plecoptera: Taeniopterygidae: Brachypterainae) in Eastern North America. *Illiesia* 12(3):15-20.
- Storey, R. 2016. Macroinvertebrate community responses to duration, intensity and timing of annual dry events in intermittent forested and pasture streams. *Aquatic Sciences* 78(2):395-414.
- Stubbington, R., J. Gunn, S. Little, T.P. Worrall and P.J. Wood. 2016. Macroinvertebrate seedbank composition in relation to antecedent duration of drying and multiple wet-dry cycles in a temporary stream. *Freshwater Biology* 61(8):1293-1307.
- Sueyoshi, M., N. Ishiyama and F. Nakamura.  $\beta$ -diversity decline of aquatic insects at the microhabitat scale associated with agricultural land use. *Landscape and Ecological Engineering*, 12(2):187-196.
- Surenkhorloo, P. 2016. A new synonymy among the East Palaearctic species of *Mesocapnia* Raušer, 1968 (Plecoptera: Capniidae). Pp. 135-139. *In*: Yoshimura, M. & Takemon, Y. (eds.). *Biology of Inland Waters, Suppl. 3, International Progress in Ephemeroptera and Plecoptera Research, Proceedings of the 13th International Conference on Ephemeroptera and the 17th International Symposium on Plecoptera (Osaka)*.

- Teslenko, V.A. 2016. New records of the East-Asian *Nemoura* species (Plecoptera: Nemouridae) for South of the Russian Far East with description of the larvae. *Zootaxa* 4085(4):575-588.
- Teslenko, V.A. 2016. Larvae of two East-Asian species of *Nemoura* (Plecoptera: Nemouridae). *Zootaxa* 4162(2):381-390.
- Theischinger, G. 2016. A second species of *Dinotoperla* Tillyard, 1921 from the Warrumbungle (Plecoptera: Gripopterygidae). *Illiesia* 12(4):21-24.
- Tierno de Figueroa J.M. and M.J. López-Rodríguez. 2015. Clase Insecta. Orden Plecoptera. *Revista IDE@ - SEA* 43(30-06-2015): 1–14. (In Spanish)
- Tierno de Figueroa, J.M., M.J. López-Rodríguez, I. Peralta-Maraver and R. Fochetti. 2015. Life cycle, nymphal feeding and secondary production of *Dinocras cephalotes* (Plecoptera) in a Mediterranean river. *Annales de la Société Entomologique de France* 51(3):259–265.
- Tierno de Figueroa, J.M., M.L. López-Rodríguez, T. Bo, M. Cammarata and S. Fenoglio 2016. Life cycle and nymphal feeding of three Alpine macroinvertebrate species (Plecoptera and Ephemeroptera). Pp. 51-60. *In*: Yoshimura, M. & Y. Takemon (eds.). *Biology of Inland Waters, Suppl. 3, International Progress in Ephemeroptera and Plecoptera Research, Proceedings of the 13th International Conference on Ephemeroptera and the 17th International Symposium on Plecoptera* (Osaka).
- Tierno de Figueroa, J.M., J.M. Luzón-Ortega and M.J. López-Rodríguez. 2016. Actualización del conocimiento de los plecópteros (Plecoptera) de las Sierras de Almirajara, Tejada y Alhama / Update of the knowledge on the stoneflies (Plecoptera) from Almirajara, Tejada and Alhama mountains. *Boletín de la Asociación española de Entomología*, 40(1-2): 19-41. (in Spanish)
- Tierno de Figueroa, J.M., J.M. Luzón-Ortega and M.J.L. López-Rodríguez. 2016. A study of stonefly taxa (Insecta: Plecoptera) inhabiting a saline stream (Arroyo Salado) in southern Spain. *In*: Macadam, C.R. & Stockan, J.A. (eds.), *Proceedings of the Joint Meeting of the XIV International Conference on Ephemeroptera and XVIII International Symposium on Plecoptera*. *Zoosymposia* 11:156-163.
- Vannucchi, P.E., I. Peralta-Maraver, J.M. Tierno de Figueroa and M.J. López-Rodríguez. 2016. Dynamic of the macroinvertebrate community and food web of a Mediterranean stream. *Journal of Freshwater Ecology*  
<http://dx.doi.org/10.1080/02705060.2016.1267665>.
- Vasilyeva, O., F. Lutscher and M. Lewis. 2016. Analysis of spread and persistence for stream insects with winged adult stages. *Journal of Mathematical Biology* 72(4):851-875.

Vera, S., 2016. Taxonomic study of *Chilenoperla puerilis* (Insecta, Plecoptera), and her assignment to *Ericiataperla* new combination. *Gayana* 80(1):92-102.

Verdone, C. J. and B.C. Kondratieff. 2016. Description of the male terminalia of two western Nearctic Perlodinae (*Pictetiella expansa* (Banks) and *Salmoperla sylvanica* Baumann & Lauck). *Illiesia* 12(1):1-9.

Verdonschot, R.C., J. Kail, B.G. McKie and P.E. Verdonschot. 2016. The role of benthic microhabitats in determining the effects of hydromorphological river restoration on macroinvertebrates. *Hydrobiologia* 769(1):55-66.

Voigt, H., Küttner, R. and B. Plesky. 2015. Rote Liste und Artenliste Sachsens, Plecoptera (Steinfliegen)/Red List and species list for Saxony, Plecoptera (Stoneflies). - Sächsisches Landesamt für Umwelt, Landwirtschaft und Geologie (Hrsg.): 34 pp, Radebeul. (in German)

Vrba, J., J. Bojková, P. Chvojka, J. Fott, J. Kopáček, M. Macek, L. Nedbalová, M. Papáček, V. Rádková, V. Sacherová and T. Soldán. 2016. Constraints on the biological recovery of the Bohemian forest lakes from acid stress. *Freshwater Biology* 61(4):376-395.

Wagner, H.C., C. Komposch, S. Aurenhammer, G. Degasperi, R. Korn, B. Frei, J. Volkmer, H. Heimbürg, D. Ivenz, A. Rief, B. Wiesmair, T. Zechmeister, M. Schneider, T. Dejaco, R. Netzberger, G. Kirchmair, L.W. Gunczy, O. Zweidick, W. Paill, M. Schwarz, J. Pfeifer, P. Arthofer, E. Holzer, R. Borovsky, E. Huber, A. Platz, E. Papenberg, J. Schied, H.R. Rausch, W. Graf, C. Muster, J. Gunczy, P. Fuchs, G.A. Pichler, A. Allspach, T. Pass, G. Teischinger, G. Wiesinger & D. Kreiner. 2016. Bericht über das zweite ÖEG-Insektencamp: 1019 Wirbellose Tierarten aus dem Nationalpark Gesäuse (Obersteiermark)/ Report on the second insect camp of the OEG: 1019 invertebrate species in the Gesäuse National Park (Upper Styria, Austria). *Entomologica Austriaca* 23: 207–260. (in German)

Wang, K., Y. Wang and D. Yang. 2016. The complete mitochondrial genome of a stonefly species, *Togoperla* sp. (Plecoptera: Perlidae). *Mitochondrial DNA Part A* 27(3):1703-1704.

Wang, K., S. Ding and D. Yang. 2016. The complete mitochondrial genome of a stonefly species, *Kamimuria chungnanshana* Wu, 1948 (Plecoptera: Perlidae). *Mitochondrial DNA Part A* 27(5):3810-3811.

Weaver, D., S.M. Coghlan and J. Zydlewski. 2016. Sea lamprey carcasses exert local and variable food web effects in a nutrient-limited Atlantic coastal stream. *Canadian Journal of Fisheries and Aquatic Sciences* 73(11):1616-1625.



Winterbourn, M.J. and S.R. Pohe. 2016. Feeding and parasitism of adult *Stenoperla* spp. (Plecoptera: Eustheniidae) in New Zealand. *Austral Entomology*, DOI: 10.1111/aen.12222View.

Wolf, B. 2016. The distribution of *Zwicknia* (Insecta: Plecoptera) in Hesse/Germany. *Lauterbornia* 81: 93–98.

Wood, P. B., M.W. Frantz and D. A. Becker. 2016. Louisiana waterthrush and benthic macroinvertebrate response to shale gas development. *Journal of Fish and Wildlife Management* 7(2):423-433.

Woznicki, S.A., A.P. Nejadhashemi, Y. Tang and L.Z. Wang. 2016. Large-scale climate change vulnerability assessment of stream health. *Ecological Indicators* 69:578-594.

Yasri-Cheboubi, N., G. Vinçon and A. Lounaci. 2016. The Nemouridae from Algeria (Insecta: Plecoptera). *Zoostema* 38(3):295-308.

Yoshimura, M. 2016. Preference for conifer and broadleaf vegetation in adults of *Kamimuria tibialis* (Plecoptera) under the laboratory conditions. Pp. 61–64. *In*: Yoshimura, M. & Takemon, Y. (eds.). *Biology of Inland Waters, Suppl. 3, International Progress in Ephemeroptera and Plecoptera Research, Proceedings of the 13th International Conference on Ephemeroptera and the 17th International Symposium on Plecoptera (Osaka)*.

Yoshinari, G., S. Uchida & M. Nakamura 2016. Morphological and DNA analyses of Japanese *Togoperla* (Plecoptera, Perlidae), with description of a new species. Pp. 141–156. *In*: Yoshimura, M. & Takemon, Y. (eds.). *Biology of Inland Waters, Suppl. 3, International Progress in Ephemeroptera and Plecoptera Research, Proceedings of the 13th International Conference on Ephemeroptera and the 17th International Symposium on Plecoptera (Osaka)*.

Zhou, C., M. Tan, S. Du, R. Zhang, R. Machida and X. Zhou. 2016. The mitochondrial genome of the winter stonefly *Apteroperla tikumana* (Plecoptera, Capniidae). *Mitochondrial DNA Part A* 27(4):3030-3032.

Zwick, P. 2016. Designation of a type species for *Formosita* Klapálek, 1914 (Perlidae: Perlinae). *Illiesia* 12(5):25-26.

Zwick, P., V.A. Teslenko and I. Sivec. 2016. L. A. Zhiltzova (1926-2015) Obituary. *Perla* 34: 38-47.