

Publication List Franz Essl (2021)

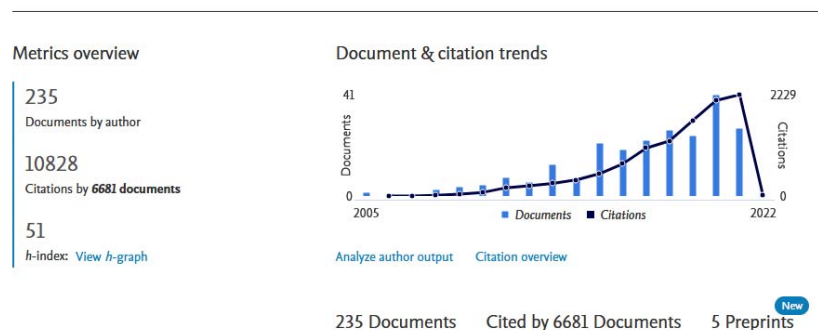
Publications (2021-09-21): 236 publications in peer-reviewed journals (1 Science, 2 Nature, 2 Nature Climate Change, 4 Nature Communications, 2 Nature Ecology and Evolution, 9 PNAS, 7 Ecology Letters, 3 PLoS Biology, 2 Trends in Ecology and Evolution), of which 96 publications were published since 2019.

Another 30 authored and edited books, technical reports, 21 book chapters, 30 non peer-reviewed articles. 10828 SCOPUS citations, H-index 51; Google Scholar citations: 17160; H-index: 65. A further 25 journal articles I co-author are currently in review or in revision.

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Scopus, Franz Essl, 2021-09-21

Five most important publications

1. Seebens H, Blackburn T, Dyer E, Genovesi P, ..., **Essl F** (2017) No saturation of the global accumulation of alien species. *Nature Communications*, 9, 14435. [This MS introduces the global alien species first record database and analyses the temporal accumulation of alien plant species during the last 200 years; Contributions: conceiving the idea, major contributions to all aspects of the MS, from data compilation to writing]
2. Van Kleunen M, Dawson W, **Essl F**, Pergl J, Winter M, Weber E, et al. (2015) Global exchange and accumulation of non-native plants. *Nature*, 525, 100-103. [This MS introduces the first truly global data set on alien plant species distributions and analyses the inter-continental flows of alien plant species; Contributions: to all aspects of the MS except analyses, from data compilation to writing]
3. Capinha C, **Essl F**, Seebens H, Moser D, Pereira HM (2015) The dispersal of alien species redefines biogeography in the Anthropocene. *Science*, 348, 1248-1251. [This MS shows that human-mediated dispersal is causing a breakdown of biogeographic barriers, and that climate and trade will define biogeography in an era of global change; Contributions: design of the study, contribution to writing]
4. **Essl F**, Dullinger S, Genovesi P, Hulme PE, Jeschke JM, Katsanevakis S, Kühn I, Lenzner B, Pauchard A, Pyšek P, Rabitsch W, Richardson DM, Seebens H, van Kleunen M, van der Putten WH, Vilà M, Bacher S (2019) A conceptual framework for range-expanding species that track human-induced environmental change. *Bioscience* 69, 908-919. [In this MS we introduce the concept of *neonative species*, i.e. range-expanding species that track anthropogenic environmental change, and propose how this phenomenon should be addressed in biodiversity

management and science; Contributions: leading all aspects of the MS, from conceiving the ideas to writing]

5. **Essl F**, Dullinger S, Rabitsch W, Hulme PE, Hülber K, Jarosik V, Kleinbauer I, Krausmann F, Kühn I, Nentwig W, Vilá M, Genovesi P, Gherardi F, Desprez-Loustau ML, Roques A, Pyšek P (2011) Socioeconomic legacy yields an invasion debt. *Proceedings of the National Academy of Sciences* **108**: 203-207. [In this MS, we show that socio-economic changes cause time-delayed biological invasions which may extend over at least 100 years; Contributions: leading all aspects of the MS except analyses, from conceiving the ideas to writing]

Peer-reviewed articles (in revision, or submitted)

1. Capinha C, Ribeiro J, Beja P, Araujo MB, Seebens H, **Essl F**, Dullinger S, Economo EP, Benoit G, Porto B, Reino L (in review) Climate is the last barrier to biological invasions in an increasingly globalized world. *Journal of Biogeography*.
2. Keith DA, ..., **Essl F**, ... (in revision) Ecosystems of the world. A new functional synthesis, assembly model and typology. *Nature*.
3. Block S, Conti L, Parepa M, Thuiller W, van Kleunen M, **Essl F**, et al. (in revision) Drought and increased water variability facilitate exotic ornamentals in experimental grassland communities. *Ecological Applications*.
4. Robertson P, Mill AC, ..., **Essl F**, ... (in review) Invasive alien species prioritization needs to consider feasibility of management. *Biological Invasions*.
5. Reiterer L, ..., **Essl F**, ... (in revision) Human appropriation of net primary productivity as driver of landscape-scale vertebrate diversity loss. *Conservation Letters*.
6. Mc Geoch, ..., **Essl F**, ... (in review) Policy-relevant indicators for invasive alien species assessment and reporting. *PNAS*.
7. Oettel J, ..., **Essl F** (in revision) Dynamics of standing deadwood in Austrian forests under varying forest management and climatic conditions. *Journal of Applied Ecology*.
8. Probert A, ..., **Essl F**, ... (in review) Identifying, reducing, and communicating uncertainty in citizen science: a focus on alien species. *Biological Invasions*.
9. Gaube V, ..., **Essl F**, ... (in review) Using the SECLAND model to project future land-use until 2050 under climate and socioeconomic change in the LTSEER region Eisenwurzen (Austria). *Environmental Modelling and Software*.
10. Monteiro M, ..., **Essl F**, ... (in revision) Patterns and drivers of the global diversity of alien Macrofungi. *Diversity and Distributions*.
11. ##other submitted papers

Peer-reviewed articles

1. Omer A, ... **Essl F**, ... (2022) Darwin's naturalization conundrum disentangled: the role of phylogenetic relatedness depends on the invasion stages. *Nature Plants*, in press.
2. Leadley P, ... **Essl F**, ... (2022) Achieving global biodiversity goals by 2050 requires urgent and integrated actions. *One Earth*, in press.
3. Ulrich W, ..., **Essl F**, ... (2022) Environmental drivers and spatial scaling. *Ecology*, in press.
4. **Essl F** (2022) *Abies cephalonica* in Austria. *BioInvasion Records*, in press.
5. Follak S, Schwarz M, **Essl F** (2022) Notes on the occurrence of *Phytolacca americana* L., in crop fields and its potential agricultural impact. *BioInvasion Records*, in press.
6. Bach W, **Essl F**, ... (2022) Phylogenetic composition of native island floras influences naturalized alien species richness. *Ecography*, in press.
7. Sakhraoui N, Verloove F, **Essl F**, Haddef A (2022) First record of *Austrocyllindropuntia cylindrica* (Lam.) Backeb. and first data about the naturalization of *Austrocyllindropuntia subulata* (Muehlenpf.) Backeb. in Algeria. *BioInvasion Records*, 11, 351-359.

8. Sakhraoui N, Verloove F, Essl F, Haddef A, Dzirri H (2022) First records of *Opuntia monacantha* (Willd.) Haw. and *Opuntia tomentosa* Salm-Dyck (Cactaceae) from Algeria. *BioInvasion Records*, in press.
9. Vaissiere AC, ..., Essl F, ... (2022) The costs of nature and the nature of costs: understanding the economic impacts of biological invasions. *Biological Invasions*, in press.
10. Latombe G, ..., Essl F (2002) Capacity of countries to reduce biological invasions. *Sustainability Science*, in press.
11. Latombe G, Catford JA, Essl F, ... (2022) G-IRAE: a practical approach for calculating the costs and effects of invaders. *Neobiota*, in press.
12. Latombe G, ... Essl F (2022) What is valued in conservation? A framework to compare ethical perspectives. *Neobiota*, 72, 45-80.
13. Hancock S, ..., Essl F, ... (2022) Atlas of Plant Invasion – Increasing accessibility and usability of the GloNAF database. *Methods in Ecology and Evolution*, <https://doi.org/10.1111/2041-210X.13820>.
14. Haider S, ..., Essl F, ... (2022) Think globally, measure locally: The MIREN standardized protocol for monitoring species distributions along elevation. *Ecology and Evolution*, <https://doi.org/10.1002/ece3.8590>.
15. Schertler A, Essl F (2022) An update on the known distribution and status of the coypu (*Myocastor coypus*) in Austria. *Bioinvasion Records*, 11, 578-591.
16. Preinfalk A, Moser D, Essl F (2022) Conservation status and ecology of the highly threatened endemic *Gentianella bohemica*. *Preslia*, in press.
17. Semenchuk P, ..., Essl F, ... (2022) Relative effects of land conversion and land-use intensity on terrestrial vertebrate diversity. *Nature Ecology and Evolution* 13, <https://doi.org/10.1038/s41467-022-28245-4>.
18. Pouteau R, ..., Essl F, ..., van Kleunen M (2021) Environmental and socioeconomic regional correlates of global extinction risk. *Diversity and Distributions*, <https://doi.org/10.1111/ddi.13438>.
19. Perino A, ..., Essl F, ... (2021) Biodiversity Post-2020: Closing the implementation gap. *Conservation Letters*, <https://doi.org/10.1111/conl.12848>.
20. Yang Q, ..., Essl F, ... (2021) The loss of floristic uniqueness. *Nature Communications*, 12, <https://doi.org/10.1038/s41467-021-27603-y>.
21. Novoa A, ..., Essl F, ... (2021) Global costs of plant invasions are comparable to those of vertebrate and invertebrate invasions. *Neobiota*, 69, 75-78.
22. Kracke I, Essl F, Zulka KP, Schindler S (2021) Risks and opportunities of assisted colonization: the perspectives of experts. *Nature Conservation*, 45, 63-84.
23. DeGroot M, ..., Essl F, ... (2021) Comparing environmental impacts of alien plants, insects and pathogens in protected riparian forests. *Neobiota* 69, 1-28.
24. Kalušova V, ..., Essl F, ... (2021) Phylogenetic structure of alien plant species pools from European donor habitats. *Global Ecology and Biogeography*, <https://doi.org/10.1111/geb.13387>.
25. Delavaux C, ..., Essl F, ... (2021) Mycorrhizal Types Influence Island Biogeography of Plants. *Communications Biology*, in press.
26. Semenchuk P, Moser D, Essl F, ... (2021) Future representation of species' climatic niches in protected areas: a case study with Austrian endemics. *Frontiers in Ecology and Evolution*, in press.
27. Omer A, ... Essl F, ... (2021) Characteristics of the naturalized flora of southern Africa reflect the non-random introduction of alien species. *Ecography*, in press.
28. Tedeschi L, Biancolini D, Capinha C, Rondinini C, Essl F (2021) Introduction, spread, and impacts of invasive alien mammals in Europe. *Mammal Review*, in press.
29. Dembiec I, ..., Essl F, ... (2021) Fine-grain beta diversity of Palearctic grassland vegetation. *Journal of Vegetation Science*, 32, e13045.
30. Essl F, Zuna-Kratky T (2021) The checklist of alien orthopterans (Orthoptera) and mantises (Mantodea) in Austria (2nd edition). *Bioinvasion Records*, in press.

31. **Essl F**, Richardson D, Pyšek P (2021) Neonatives and translocated species: different terms are needed for different species categories in conservation policies. *Neobiota*, 68, 101-104.
32. Konic J, **Essl F**, Lenzner B (2021) To care or not to care? Which factors influence the distribution of early-flowering geophytes at the Vienna central cemetery (Austria). *Sustainability*, 13, 4657.
33. Dullinger I, **Essl F**, Moser D, Erb KH, Haberl H, Dullinger S (2021) Biodiversity models need to represent land-use intensity more comprehensively. *Global Ecology and Biogeography*, 30, 924-932.
34. Lenzner B, ..., **Essl F** (2021) Role of diversification rates and evolutionary history as a driver of plant naturalization success. *New Phytologist* 229, 2998-3008.
35. Haubrock P, ..., **Essl F**, Courchamp F (2021) Economic costs of invasive alien species across Europe. *Neobiota*, 67, 153-190.
36. Zenni R, **Essl F**, Garcia-Berthou E, McDermott S (2021) The economic costs of biological invasions around the world. *Neobiota*, 67, 1-9.
37. Marques A, ..., **Essl F**, ... (2021) A research perspective towards a more complete biodiversity footprint: a report from the World Biodiversity Forum. *International Journal of Life Cycle Assessment*, doi: 10.1007/s11367-020-01846-1.
38. Biurrun I, ..., **Essl F**, ... (2021) Benchmarking plant diversity of Palearctic grasslands and other open habitats. *Journal of Biogeography*, 32, e13050.
39. Seebens H, Blackburn T, ..., **Essl F** (2021) Around the world in 500 years: global patterns of spread of alien species during the last centuries. *Global Ecology and Biogeography*, 30, 1621-1632.
40. Arlé E, ..., **Essl F**, ... (2021) bRacatus: estimating the accuracy and biogeographical status of georeferenced biological data. *Methods in Ecology and Evolution*, 12, 1609-1619.
41. Zhang J, ..., **Essl F**, ... (2021) How do environmental factors shape the scale dependence of z-values in Palaearctic grasslands? *Journal of Vegetation Science*, 32, e13044.
42. Roura-Pascual N, ..., **Essl F** (2021) Alternative futures for global biological invasions. *Sustainability Science*, 16, 1637-1650.
43. Giora M, ... **Essl F**, ... (2021) Persistent soil seed banks promote naturalisation and invasiveness in flowering plants. *Ecology Letters*, 24, 1655-1667.
44. Pouteau R, ..., **Essl F**, ..., van Kleunen M (2021) Potential alien ranges of European plants are predicted to shrink in the future, but less so for naturalized than for not yet naturalized species. *Diversity and Distributions*, <https://doi.org/10.1111/ddi.13378>.
45. Fristoe T, ..., **Essl F**, ... (2021) Dimensions of invasiveness in Europe's alien flora: links between local abundance, geographic range size and habitat breadth. *Proceedings of the National Academy of Sciences*, 118, e2021173118.
46. Vilà M, ..., **Essl F**, ... (2021) Viewing emerging human infectious disease epidemics through the lens of invasion science. *BioScience*, 71, 722-740.
47. Almasy J, **Essl F**, Schulze C (2021) To graze or to mow? The influence of grassland management on grasshoppers (Orthoptera) on a flood protection embankment in the Donau-Auen National Park (Austria). *Journal of Insect Conservation*, 25, 707-717.
48. **Essl F**, Glaser M, Schertler A (2021) New and old invaders in forests in eastern Austria: The role of species attributes and invasion history. *Flora*, doi: 10.1016/j.flora.2021.151922.
49. Wohlgend MR, Craven D, Weigelt P, Seebens H, Winter M, Kreft H, **Essl F**, van Kleunen M, Pergl J, Pyšek P, Space J, Thomas P, Knight TM (2021) Naturalized plant species in the Pacific: Patterns and drivers. *Biodiversity Data Journal*, 9, e67318.
50. Wohlgend MR, Craven D, Weigelt P, Seebens H, Winter M, Kreft H, **Essl F**, van Kleunen M, Pergl J, Pyšek P, Knight TM (2021) Naturalized plant species in the Pacific: Patterns and drivers. *Diversity and Distributions*, 27, 1110-1133.
51. Cuthbert R, ..., **Essl F**, ... (2021) Economic costs of aquatic invasions. *Science of the Total Environment*, 775, doi: 10.1016/j.scitotenv.2021.145238.

52. König C, Weigelt P, ..., **Essl F**, ... (2021) Source pools and disharmony of the world's island floras. *Ecography*, 44, 44-55.
53. **Essl F**, Zechmeister HG (2021) Checklist of alien and cryptogenic bryophytes in Austria (2nd edition). *BioInvasion Records*, 10, 419-424.
54. Sanchez-Ortiz K, ..., **Essl F**, ... (2020) Effects of land-use change and related pressures on alien and native subsets of island communities. *PLoS One*, <https://doi.org/10.1371/journal.pone.0227169>.
55. Booy O, ..., **Essl F**, ... (2020) Using structured eradication feasibility assessment to prioritize the management of new and emerging invasive alien species in Europe. *Global Change Biology*, 26, 6235-6250.
56. Vorstenbosch T, Lenzner B, **Essl F** (2020) An uphill battle? The elevational distribution of alien plant species along rivers and roads in the Austrian Alps. *Neobiota*, 63, 1-25.
57. Hoeltl A, Steiner G, Lumetsberger T, Weinhäupl H, Greilhuber I, Wrбка T, Vadrot A, **Essl F**, Tribsch A, Sturmhuber C, Gratzner G (2020) A network for biodiversity in Austria. *GAIA*, 29, 126-128.
58. Diagne C, Catford J, **Essl F**, Nunez MA, Courchamp F (2020) What are the costs of biological invasions? A complex topic requiring international and multidisciplinary expertise. *Neobiota*, 63, 25-37.
59. Rew L, McDougall K, ..., **Essl F**, ... (2020) Moving up and moving out: new challenges for alpine and arctic ecosystems under global change. *Arctic, Antarctic and Alpine Research*, <https://doi.org/10.1080/15230430.2020.1845919>.
60. Seebens H, Blackburn T, ..., **Essl F** (2020) Continental dynamics of projected future accumulations of alien species. *Global Change Biology*, <https://doi.org/10.1111/gcb.15333>.
61. **Essl F**, Latombe G, Lenzner B, Pagad S, Seebens H, Smith K, Wilson JRU, Genovesi P (2020) The Convention on Biological Diversity (CBD)'s Post-2020 target on invasive alien species – what should it include and how should it be monitored? *Neobiota*, 62, 99-121.
62. Brundu G, Pauchard A, Pyšek P, Pergl J, ..., **Essl F**, ..., Richardson DM (2020) Global guidelines for the sustainable use of non-native trees to prevent tree invasions and mitigate their negative impacts. *Neobiota*, 61, 65-116.
63. Jaric I, Roll U, Arlinghaus R, Belmaker J, Chen Y, China V, Douda K, **Essl F**, ... Correia RA (2020) Digital data for aquatic research: from culturomics to iEcology. *PLoS Biology*, <https://doi.org/10.1371/journal.pbio.3000935>.
64. Lenzner B, Latombe G, Capinha C, Bellard C, ..., **Essl F** (2020) What will the future bring for biological invasions on islands? An expert-based assessment. *Frontiers in Ecology and Evolution*, <https://doi.org/10.3389/fevo.2020.00280>.
65. Flantua S, Payne D, ..., **Essl F**, ..., Field R (2020) Snapshot isolation and isolation history challenge the analogy between mountains and islands used to understand endemism. *Global Ecology and Biogeography*, 29, 1651-1673.
66. Seebens H, Clarke DA, Groom Q, Wilson JRU, García-Berthou E, Kühn I, Roigé M, Pagad S, **Essl F**, Vicente J, Winter M, McGeoch M (2020) A workflow for standardising and integrating alien species distribution data. *Neobiota*, 59, 39-59.
67. Latombe G, **Essl F**, McGeoch M (2020) The effect of cross-boundary management on the trajectory to commonness in biological invasions. *Neobiota*, 62, 241-267.
68. Jaric I, Bellard C, Correia RA, Courchamp F, Douda K, **Essl F**, ..., Roll U (2020) Invasion culturomics and iEcology approaches to better understand biological invasions. *Conservation Biology*, in press.
69. Pyšek P, Hulme P, Simberloff D, Bacher S, Blackburn T, Carlton JH, Dawson W, **Essl F**, ... Richardson DM (2020) Scientists' warning on invasive alien species. *Biological Reviews*, 95, 1511-1534.
70. van Kleunen M, Xu X, Yiang Q, Maurel N, Zhang Z, Dawson W, **Essl F**, Kreft H, Pergl P, Pyšek P, Weigelt P, Moser D, Lenzner B, Fristoe TS (2020) Economic use of plants is key to their naturalization success. *Nature Communications*, <https://doi.org/10.1038/s41467-020-16982>.

71. Guo Q, Cade B, Dawson W, **Essl F**, ..., Pyšek P (2020) Latitudinal patterns of plant invasions. *Journal of Biogeography*, <https://doi.org/10.1111/jbi.13943>.
72. Hock M, Hofmann RW, ... **Essl F**, ... Erfmeier A (2020) Native distribution characteristics rather than functional traits explain preadaptation of invasive species to high-UV-B environments. *Diversity and Distributions*, 26, 1421-1438.
73. **Essl F**, Lenzner B, Bacher S, Bailey S, Capinha C, ..., Roura-Pascual N (2020) Drivers of future alien species impacts: an expert-based assessment. *Global Change Biology*, 26, 4880-4893.
74. Monteiro M, Reino L, Schertler A, **Essl F**, Figueira R, Ferreira MT, Capinha C (2020) A database of the global distribution of alien macrofungi. *Biodiversity Data Journal*, 8, e51459.
75. Höbart R, Schindler S, **Essl F** (2020) Perception of alien plants and animals and acceptance of control methods among societal groups. *Neobiota*, 58, 33-54.
76. Cuthbert R, Bacher S, Blackburn T, Briski E, Diagne C, Dick JTA, **Essl F**, ..., Courchamp F (2020) Fact and value in invasion biology: A response to Sagoff 2019. *Conservation Biology*, <https://doi.org/10.1111/cobi.13440>.
77. Hülber K, Kuttner M, Moser D, Rabitsch W, Schindler S, Wessely J, Gatttringer A, **Essl F**, Dullinger S (2020) Habitat availability disproportionately amplifies climate change risks for lowland compared to alpine species. *Global Ecology and Conservation*, 23, <https://doi.org/10.1016/j.gecco.2020.e01113>.
78. Schertler A, Rabitsch W, Moser D, Wessely J, **Essl F** (2020) Modelling the potential distribution of the coypu, *Myocastor coypus*, and its potential future spread under climate change in Europe. *Neobiota*, <https://doi.org/10.3897/neobiota.58.33118>.
79. Schernhammer T, Wessely J, Eder E, Straka U, **Essl F** (2020) Modelling the distribution of large branchiopods (Crustacea: Notostraca, Anostraca & Spinicaudata) for predicting occurrences in poorly sampled regions. *Global Ecology and Conservation*, 23, doi: 10.1016/j.gecco.2020.e01083.
80. **Essl F** (2020) The distribution of *Sinacalia tangutica* (Maxim.) B. Nord. in Austria. *BioInvasion Records*, 9, 393-398.
81. Enders M, Havemann F, ... **Essl F**, ..., Jeschke J (2020) A conceptual map of invasion biology: Integrating hypotheses into a consensus network. *Global Ecology and Biogeography*, 29, 978-991.
82. Robertson P, Mill AC, ..., **Essl F**, ... (2020) A proposed unified framework to describe the management of biological invasions. *Biological Invasions*, 22, 2633-2645.
83. Oettel J, Lapin K, Kindermann G, Steiner H, Schweinzer KM, Frank G, **Essl F** (2020) Patterns and drivers of deadwood volume and composition in different forest types of the Austrian natural forest reserves. *Forest Ecology and Management*, <https://doi.org/10.1016/j.foreco.2020.118016>.
84. Wagner S, Moser D, **Essl F** (2020) Urban rivers as dispersal corridors: Which factors are important for the spread of alien woody species along the Danube? *Sustainability*, 12, 2181, <https://doi.org/10.3390/su12062185>.
85. Schiemer F, Beqiraj S, ... **Essl F**, ..., Vitecek S (2020) The Vjosa River corridor: a model of natural hydro-morphodynamics and a hotspot of highly threatened ecosystems of European significance. *Landscape Ecology*, 35, 953-968.
86. Dullinger I, Gatttringer A, Wessely J, Moser D, Plutzer C, Willner W, Egger C, Gaube V, Haberl H, Mayer A, Bohner A, Gilli C, Pascher K, **Essl F**, Dullinger S (2020) A socio-ecological model for predicting impacts of land-use and climate change on regional plant diversity. *Global Change Biology*, 26, 2336-2352.
87. Novoa A, Richardson D, ..., **Essl F**, ... (2020) Invasion syndromes: An approach for achieving generalizations in invasion science. *Biological Invasions*, 22, 1801-1820.
88. Jaric I, Courchamp F, Correia R, Crowley S, **Essl F**, ... (2020) The role of species charisma in biological invasions. *Frontiers in Ecology and the Environment*, <https://doi.org/10.1002/fee.2195>.
89. van der Sande MT, Bruelheide H, ..., **Essl F**, ... (2020) Similar factors underlie tree abundance in forests in native and alien ranges. *Global Ecology and Biogeography*, 29, 281-294.
90. **Essl F**, Courchamp F, Dullinger S, Jeschke J, Schindler S (2020) Make Open Access Publishing Fair and Transparent! *BioScience*, 70, in press.

91. Dengler J, Matthews T, ..., **Essl F**, ... (2020) Species-area relationships in continuous vegetation: evidence from Palearctic grasslands. *Journal of Biogeography*, 47, 72-86.
92. **Essl F**, Dullinger S, Genovesi P, Hulme PE, Jeschke JM, Katsanevakis S, Kühn I, Lenzner B, Pauchard A, Pyšek P, Rabitsch W, Richardson DM, Seebens H, van Kleunen M, van der Putten WH, Vilà M, Bacher S (2020) Distinct biogeographic phenomena require a specific terminology: a reply to Wilson and Sagoff. *BioScience*, 70, 112-114.
93. Otero I, Pe'er G, Farrell KN, Plutzer C, Pueyo S, ..., **Essl F**, ... (2020) Biodiversity policy beyond economic growth. *Conservation Letters*, <https://doi.org/10.1111/conl.12713>.
94. Follak S, Schwarz M, **Essl F** (2020) First record of *Eriochloa villosa* (Thunb.) Kunth in Austria and notes on its distribution and agricultural impact in Central Europe. *Bioinvasion Records*, 9, 8-16.
95. Klöner G, Wessely J, Gattringer A, Moser D, Dullinger I, ..., **Essl F**, Dullinger S (2019) Effects of climate change and horticulture on ornamental plant invasions in Europe. *Ecography*, 42, 1548-1557.
96. Pergl J, Pyšek P, **Essl F**, Jeschke JM, Courchamp F, Geist J, Hejda M, Kowarik I, Mill A, Musseau C, Pipek P, Saul WC, von Schmalensee M, Strayer D (2019) Need for routine tracking of biological invasions. *Conservation Biology*, <https://doi.org/10.1111/cobi.13445>.
97. Lenzner B, Leclère D, Franklin O, Seebens H, Roura-Pascual N, Obersteiner M, Dullinger S, **Essl F** (2019) A framework on how to build global 21st century scenarios and models of biological invasions. *BioScience*, 69, 697-710.
98. **Essl F**, Dawson W, Kreft H, Pergl J, Pyšek P, ... (2019) Drivers of changes in the relative richness of naturalized and invasive alien plants worldwide. *AoB Plants*, 11, <https://doi.org/10.1093/aobpla/plz051>.
99. Baatar U, Dirnböck T, **Essl F**, Moser D, Wessely J, et al. (2019) Evaluating climatic threats to habitat types based on co-occurrence patterns of characteristic species. *Basic and Applied Ecology*, 28, 23-35.
100. **Essl F** (2019) An overview of the first occurrences of *Rhodotypos scandens* in Austria. *Bioinvasion Records*, 8, 726-741.
101. **Essl F** (2019) First records of casual occurrences of *Trachycarpus fortunei* in Austria. *Bioinvasion Records*, 8, 471-477.
102. Soler R, Rumpf S, Schindler S, Martínez Pastur G, Barrera M, Cellini M, Pérez Flores M, **Essl F**, Rabitsch W, Lencinas MV (2019) Twelve-year dynamics of alien and native understorey plants following variable retention harvesting in *Nothofagus pumilio* forests in Southern Patagonia. *Forest Ecology and Management*, 449, <https://doi.org/10.1016/j.foreco.2019.07.001>.
103. **Essl F**, Dullinger S, Genovesi P, Hulme PE, Jeschke JM, Katsanevakis S, Kühn I, Lenzner B, Pauchard A, Pyšek P, Rabitsch W, Richardson DM, Seebens H, van Kleunen M, van der Putten WH, Vilà M, Bacher S (2019) A conceptual framework for range-expanding species that track human-induced environmental change. *Bioscience* 69, 908-919.
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