










Jonathan Jeschke's publication list, with [links](#) to PDFs and Supplements

Publications with the following features are highlighted (last update 3 October 2018):

 50	 100	 250	 500	≥50, 100, 250, 500 citations, respectively, in the Web of Science
 Highly Cited Paper	Highly cited paper (in the top 1%) according to the Web of Science, considering the research field and publication year			
 Top 10	In the top 10 of most visited papers of the journal			
 Altmetric	Altmetric score ≥100			
 F1000Prime RECOMMENDED	Recommended by Faculty of 1000			
 nature RESEARCH HIGHLIGHT	Nature Research Highlight			

Invasive species and other novel organisms

Pauchard, A.; Meyerson, L.A.; Bacher, S.; Blackburn, T.M.; Brundu, G.; Cadotte, M.; Courchamp, F.; Essl, F.; Genovesi, P.; Haider, S.; Holmes, N.D.; Hulme, P.; **Jeschke, J.M.**; Lockwood, J.L.; Novoa, A.; Nuñez, M.A.; Peltzer, D.A.; Pyšek, P.; Richardson, D.M.; Simberloff, D.; Smith, K.; van Wilgen, B.W.; Vilà, M.; Wilson, J.R.U.; Winter, M.; Zenni, R.D. In press. Biodiversity assessments: origin matters. *PLoS Biology*.

Jeschke, J.M.; Heger, T. (eds.) 2018. *Invasion Biology: Hypotheses and Evidence*. CABI, Wallingford, UK. 188 Pages.

Companion website: **Jeschke, J.M.**; Enders, M.; Bagni, M.; Jeschke, P.; Zimmermann, M.; Heger, T. 2018. Hi-Knowledge.org.

The book includes the following chapters that I co-authored:

Chapter 2: Heger, T.; **Jeschke, J.M.** The hierarchy-of-hypotheses approach. Pages 14-18.

Chapter 6: Heger, T.; **Jeschke, J.M.** The hierarchy-of-hypotheses approach updated – a toolbox for structuring and analysing theory, research and evidence. Pages 38-45.

Chapter 7: Enders, M.; **Jeschke, J.M.** A network of invasion hypotheses. Pages 49-59.

Chapter 8: **Jeschke, J.M.**; Debille, S.; Lortie, C.J. Biotic resistance and island susceptibility hypotheses. Pages 60-70.

Chapter 9: Nordheimer, R.; **Jeschke, J.M.** Disturbance hypothesis. Pages 71-78.

Chapter 10: Braga, R.R.; Gómez Aparicio, L.; Heger, T.; Vitule, J.R.S.; **Jeschke, J.M.** Invasional meltdown hypothesis. Pages 79-91.

Chapter 11: Heger, T.; **Jeschke, J.M.** Enemy release hypothesis. Pages 92-102.

Chapter 13: **Jeschke, J.M.**; Pyšek, P. Tens rule. Pages 124-132.

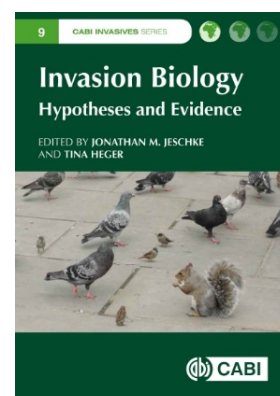
Chapter 14: Torchyk, O.; **Jeschke, J.M.** Phenotypic plasticity hypothesis. Pages 133-139.

Chapter 15: **Jeschke, J.M.**; Erhard, F. Darwin's naturalization & limiting similarity hypotheses. Pages 140-146.

Chapter 16: **Jeschke, J.M.**; Starzer, J. Propagule pressure hypothesis. Pages 147-153.



Chapter 17: **Jeschke, J.M.**; Heger, T. Synthesis. Pages 157-166.

Chapter 18: Heger, T.; **Jeschke, J.M.** Conclusions and outlook. Pages 167-172.



-  **Highly Cited Paper** Bacher, S.; Blackburn, T.M.; Essl, F.; Genovesi, P.; Heikkilä, J.; **Jeschke, J.M.**; Jones, G.; Keller, R.; Kenis, M.; Kueffer, C.; Martinou, A.F.; Nentwig, W.; Pergl, J.; Pyšek, P.; Rabitsch, W.; Richardson, D.M.; Roy, H.E.; Saul, W.-C.; Scalera, R.; Vilà, M.; Wilson, J.R.U.; Kumschick, S. 2018. Socio-economic impact classification of alien taxa (SEICAT). *Methods in Ecology and Evolution* 9, 159-168.
- Bellard, C.; **Jeschke, J.M.**; Leroy, B.; Mace, G.M. 2018. Insights from modelling studies on how climate change affects invasive alien species geography. *Ecology and Evolution* 8, 5688-5700.
- Braga, R.R.; Gómez-Aparicio, L.; Heger, T.; Vitule, J.R.S.; **Jeschke, J.M.** 2018. Structuring evidence for invasional meltdown: broad support but with biases and gaps. *Biological Invasions* 20, 923-936.
- Enders, M.; Hütt, M.-T.; **Jeschke, J.M.** 2018. Drawing a map of invasion biology based on a network of hypotheses. *Ecosphere* 9, e02146.
- Essl, F.; Bacher, S.; Genovesi, P.; Hulme, P.E.; **Jeschke, J.M.**; Katsanevakis, S.; Kowarik, I.; Kühn, I.; Pyšek, P.; Rabitsch, W.; Schindler, S.; van Kleunen, M.; Vilà, M.; Wilson, J.R.U.; Richardson, D.M. 2018. Which taxa are alien? Criteria, applications, and uncertainties. *BioScience* 68, 496-509.
- Linzmaier, S.M.; Goebel, L.S.; Ruland, F.; **Jeschke, J.M.** 2018. Behavioral differences in an over-invasion scenario: marbled vs. spiny-cheek crayfish. *Ecosphere* 9, e02385.
- Rabitsch, W.; Heger, T.; **Jeschke, J.**; Saul, W.-C.; Nehring, S. 2018. Analyse und Priorisierung der Pfade nicht vorsätzlicher Einbringung und Ausbreitung invasiver gebietsfremder Arten in Deutschland gemäß Verordnung (EU) Nr. 1143/2014. Analysis and prioritisation of pathways of unintentional introduction and spread of invasive alien species in Germany in accordance with Regulation (EU) No 1143/2014. *BfN-Skripten* 490, 1-103.
- Rabitsch, W.; Heger, T.; **Jeschke, J.**; Saul, W.-C. 2018. Priorisierung der Pfade nicht vorsätzlicher Einbringung und Ausbreitung invasiver gebietsfremder Arten in Deutschland. *Natur und Landschaft* 93, 416-422.
-  **Altmetric** Seebens, H.; Blackburn, T.M.; Dyer, E.E.; Genovesi, P.; Hulme, P.E.; **Jeschke, J.M.**; Pagad, S.; Pyšek, P.; van Kleunen, M.; Winter, M.; Arianoutsou, M.; Bacher, S.; Blasius, B.; Brockerhoff, E.G.; Brundu, G.; Capinha, C.; Causton, C.E.; Celesti-Gradow, L.; Dawson, W.; Dullinger, S.; Economo, E.P.; Fuentes, N.; Guénard, B.; Jäger, H.; Kartesz, J.; Kenis, M.; Kühn, I.; Lenzner, B.; Liebhold, A.; Mosena, A.; Moser, D.; Nentwig, W.; Nishino, M.; Pearman, D.; Pergl, J.; Rabitsch, W.; Rojas-Sandoval, J.; Roques, A.; Rorke, S.; Rossinelli, S.; Roy, H.E.; Scalera, R.; Schindler, S.; Štajerová, K.; Tokarska-Guzik, B.; Walker, K.; Ward, D.F.; Yamanaka, T.; Essl, F. 2018. Global rise in emerging alien species results from increased accessibility of new source pools. *Proceedings of the National Academy of Sciences USA* 115, E2264-E2273.
- Courchamp, F.; Fournier, A.; Bellard, C.; Bertelsmeier, C.; Bonnaud, E.; **Jeschke, J.M.**; Russell, J.C. 2017. Invasion biology: specific problems and possible solutions. *Trends in Ecology & Evolution* 32, 13-22.
- Essl, F.; Hulme, P.E.; **Jeschke, J.M.**; Keller, R.; Pyšek, P.; Richardson, D.M.; Saul, W.-C.; Bacher, S.; Dullinger, S.; Estévez, R.A.; Kueffer, C.; Roy, H.E.; Seebens, H.; Rabitsch, W. 2017. Scientific and normative foundations for the valuation of alien species impacts: thirteen core principles. *BioScience* 67, 166-178.
-  **Highly Cited Paper** Latombe, G.; Pyšek, P.; **Jeschke, J.M.**; Blackburn, T.M.; Bacher, S.; Capinha, C.; Costello, M.J.; Fernández, M.; Gregory, R.D.; Hobern, D.; Hui, C.; Jetz, W.; Kumschick, S.; McGrannachan, C.; Pergl, J.; Roy, H.E.; Scalera, R.; Squires, Z.E.; Wilson, J.R.U.; Winter, M.; Genovesi, P.; McGeoch, M.A. 2017. A vision for global monitoring of biological invasions. *Biological Conservation* 213, 295-308.
- Penk, M.; Saul, W.-C.; Dick, J.T.A.; Donohue, I.; Alexander, M.E.; Linzmaier, S.; **Jeschke, J.M.** 2017. A trophic interaction framework for identifying the invasive capacity of novel organisms. *Methods in Ecology and Evolution* 8, 1786-1794.
- This paper was selected for the Virtual Issue *Biodiversity and Ecosystem Services* of the British Ecological Society jointly with the Ecological Society of America and (published August 2017).

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 Altmetric  Highly Cited Paper Ricciardi, A.; Blackburn, T.M.; Carlton, J.T.; Dick, J.T.A.; Hulme, P.E.; Iacarella, J.C.; **Jeschke, J.M.**; Liebhold, A.M.; Lockwood, J.L.; MacIsaac, H.J.; Pyšek, P.; Richardson, D.M.; Ruiz, G.M.; Simberloff, D.; Sutherland, W.J.; Wardle, D.A.; Aldridge, D.C. 2017. Invasion science: a horizon scan of emerging challenges and opportunities. *Trends in Ecology & Evolution* 32, 464-474.

Ricciardi, A.; Blackburn, T.M.; Carlton, J.T.; Dick, J.T.A.; Hulme, P.E.; Iacarella, J.C.; **Jeschke, J.M.**; Liebhold, A.M.; Lockwood, J.L.; MacIsaac, H.J.; Pyšek, P.; Richardson, D.M.; Ruiz, G.M.; Simberloff, D.; Sutherland, W.J.; Wardle, D.A.; Aldridge, D.C. 2017. Invasion science: looking forward rather than revisiting old ground – a reply to Zenni *et al.* *Trends in Ecology & Evolution* 32, 809-810.

Saul, W.-C.; Roy, H.E.; Booy, O.; Carnevali, L.; Chen, H.-J.; Genovesi, P.; Harrower, C.A.; Hulme, P.E.; Pagad, S.; Pergl, J.; **Jeschke, J.M.** 2017. Assessing patterns in introduction pathways of alien species by linking major invasion data bases. *Journal of Applied Ecology* 54, 657-669. This paper was selected for the Virtual Issue *Invasive Species* (published March 2017) of the British Ecological Society.

  Altmetric  Highly Cited Paper  **nature** Seebens, H.; Blackburn, T.M.; Dyer, E.E.; Genovesi, P.; Hulme, P.E.; **Jeschke, J.M.**; Pagad, S.; Pyšek, P.; Winter, M.; Arianoutsou, M.; Bacher, S.; Blasius, B.; Brundu, G.; Capinha, C.; Celesti-Grapow, L.; Dawson, W.; Dullinger, S.; Fuentes, N.; Jäger, H.; Kartesz, J.; Kenis, M.; Kreft, H.; Kühn, I.; Lenzner, B.; Liebhold, A.; Mosena, A.; Moser, D.; Nishino, M.; Pearman, D.; Pergl, J.; Rabitsch, W.; Rojas-Sandoval, J.; Roques, A.; Rorke, S.; Rossinelli, S.; Roy, H.E.; Scalera, R.; Schindler, S.; Štajerová, K.; Tokarska-Guzik, B.; van Kleunen, M.; Walker, K.; Weigelt, P.; Yamanaka, T.; Essl, F. 2017. No saturation in the accumulation of alien species worldwide. *Nature Communications* 8, 14435.

Strayer, D.L.; D'Antonio, C.M.; Essl, F.; Fowler, M.S.; Geist, J.; Hilt, S.; Jarić, I.; Jöhnk, K.; Jones, C.G.; Lambin, X.; Latzka, A.W.; Pergl, J.; Pyšek, P.; Robertson, P.; von Schmalensee, M.; Stefansson, R.A.; Wright, J.; **Jeschke, J.M.** 2017. Boom-bust dynamics in biological invasions: towards an improved application of the concept. *Ecology Letters* 20, 1337-1350.


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Penk, M.; **Jeschke, J.M.**; Minchin, D.; Donohue, I. 2016. Warming can enhance invasion success through asymmetries in energetic performance. *Journal of Animal Ecology* 85, 419-426. This paper was selected for the Virtual Issues *Invasive Species* (March 2017) and *Ecology and Evolution in Ireland* (November 2016) of the British Ecological Society.

 Essl, F.; Bacher, S.; Blackburn, T.; Booy, O.; Brundu, G.; Brunel, S.; Cardoso, A.-C.; Eschen, R.; Gallardo, B.; Galil, B.; García-Barthou, E.; Genovesi, P.; Groom, Q.; Harrower, C.; Hulme, P.E.; Katsanevakis, S.; Kenis, M.; Kühn, I.; Kumschick, S.; Martinou, A.F.; Nentwig, W.; O'Flynn, C.; Pagad, S.; Pergl, J.; Pyšek, P.; Rabitsch, W.; Richardson, D.M.; Roques, A.; Roy, H.E.; Scalera, R.; Schindler, S.; Seebens, H.; Vanderhoeven, S.; Vilà, M.; Wilson, J.R.U.; Zenetos, A.; **Jeschke, J.M.** 2015. Crossing frontiers in tackling pathways of biological invasions. *BioScience* 65, 769-782.

- González-Suárez, M.; Bacher, S.; **Jeschke, J.M.** 2015. Intraspecific trait variation is correlated with establishment success of alien mammals. *American Naturalist* 185, 737-746.
- Hawkins, C.L.; Bacher, S.; Essl, F.; Hulme, P.E.; **Jeschke, J.M.**; Kühn, I.; Kumschick, S.; Nentwig, W.; Pergl, J.; Pyšek, P.; Rabitsch, W.; Richardson, D.M.; Vilà, M.; Wilson, J.R.U.; Genovesi, P.; Blackburn, T.M. 2015. Framework and guidelines for implementing the proposed IUCN Environmental Impact Classification for Alien Taxa (EICAT). *Diversity and Distributions* 21, 1360-1363.
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- 50**  **Highly Cited Paper** Kumschick, S.; Gaertner, M.; Vilà, M.; Essl, F.; **Jeschke, J.M.**; Pyšek, P.; Ricciardi, A.; Bacher, S.; Blackburn, T.M.; Dick, J.T.A.; Evans, T.; Hulme, P.E.; Kühn, I.; Mrugała, A.; Pergl, J.; Rabitsch, W.; Richardson, D.M.; Sendek, A.; Winter, M. 2015. Ecological impacts of alien species: quantification, scope, caveats, and recommendations. *BioScience* 65, 55-63.
- Saul, W.-C.; **Jeschke, J.M.** 2015. Eco-evolutionary experience in novel species interactions. *Ecology Letters* 18, 236-245.
- Jeschke, J.M.** 2014. General hypotheses in invasion ecology. *Diversity and Distributions* 20, 1229-1234.
- 100**  **Highly Cited Paper** **Jeschke, J.M.**; Bacher, S.; Blackburn, T.M.; Dick, J.T.A.; Essl, F.; Evans, T.; Gaertner, M.; Hulme, P.E.; Kühn, I.; Mrugała, A.; Pergl, J.; Pyšek, P.; Rabitsch, W.; Ricciardi, A.; Richardson, D.M.; Sendek, A.; Vilà, M.; Winter, M.; Kumschick, S. 2014. Defining the impact of non-native species. *Conservation Biology* 28, 1188-1194.
This article received the *Conservation Biology* Award for the most highly cited paper published in *Conservation Biology* in 2014, considering citations in 2015 and 2016.
- 100**  **Highly Cited Paper**  Blackburn, T.M.; Essl, F.; Evans, T.; Hulme, P.E.; **Jeschke, J.M.**; Kühn, I.; Kumschick, S.; Marková, Z.; Mrugała, A.; Nentwig, W.; Pergl, J.; Pyšek, P.; Rabitsch, W.; Ricciardi, A.; Richardson, D.M.; Sendek, A.; Vilà, M.; Wilson, J.R.U.; Winter, M.; Genovesi, P.; Bacher, S. 2014. A unified classification of alien species based on the magnitude of their environmental impacts. *PLoS Biology* 12, e1001850.
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- Heger, T.; **Jeschke, J.M.** 2014. The enemy release hypothesis as a hierarchy of hypotheses. *Oikos* 123, 741-750.
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- Wittmann, M.J.; Metzler, D.; Gabriel, W.; **Jeschke, J.M.** 2014. Decomposing propagule pressure: the effects of propagule size and propagule frequency on invasion success. *Oikos* 123, 441-450.
- Jeschke, J.M.** 2013. Invasion ecology. *Basic and Applied Ecology* 14, 713.
- Jeschke, J.M.**; Keesing, F.; Ostfeld, R.S. 2013. Novel organisms: comparing invasive species, GMOs, and emerging pathogens. *Ambio* 42, 541-548.
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- Kollmann, J.; Heger, T.; **Jeschke, J.** 2013. Auswirkungen von Neobiota auf die Biodiversität – eine Frage des Maßstabs, der Artengruppen und ökologischen Mechanismen [Impacts of alien species on biodiversity – a question of scale, taxonomic groups, and ecological mechanisms]. *Berichte der Reinhold-Tüxen-Gesellschaft* 25, 123-131.
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- Saul, W.-C.; **Jeschke, J.M.**; Heger, T. 2013. The role of eco-evolutionary experience in invasion success. *NeoBiota* 17, 57-74.
- Wittmann, M.J.; Gabriel, W.; Harz, E.-M.; Laforsch, C.; **Jeschke, J.M.** 2013. Can *Daphnia lumholtzi* invade European lakes? *NeoBiota* 16, 39-57.
- Jeschke, J.M.**; Gómez Aparicio, L.; Haider, S.; Heger, T.; Lortie, C.J.; Pyšek, P.; Strayer, D.L. 2012. Taxonomic bias and lack of cross-taxonomic studies in invasion biology. *Frontiers in Ecology and the Environment* 10, 349-350.
- 50** **Top 10** **Jeschke, J.M.**; Gómez Aparicio, L.; Haider, S.; Heger, T.; Lortie, C.J.; Pyšek, P.; Strayer, D.L. 2012. Support for major hypotheses in invasion biology is uneven and declining. *NeoBiota* 14, 1-20.
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- 50** **Top 10** Keller, R.P.; Geist, J.; **Jeschke, J.M.**; Kühn, I. 2011. Invasive species in Europe: ecology, status, and policy. *Environmental Sciences Europe* 23, 23.
- Kollmann, J.; **Jeschke, J.M.** 2011. Fifty years of Invasion Ecology – The Legacy of Charles Elton. *Basic and Applied Ecology* 12, 554.
- Top 10** Kühn, I.; Kowarik, I.; Kollmann, J.; Starfinger, U.; Bacher, S.; Blackburn, T.M.; Bustamante, R.O.; Celesti-Grapow, L.; Chytrý, M.; Colautti, R.I.; Essl, F.; Foxcroft, L.C.; García-Berthou, E.; Gollasch, S.; Hierro, J.; Hufbauer, R.A.; Hulme, P.E.; Jarošík, V.; **Jeschke, J.M.**; Karrer, G.; Mack, R.N.; Molofsky, J.; Murray, B.R.; Nentwig, W.; Osborne, B.; Pyšek, P.; Rabitsch, W.; Rejmánek, M.; Roques, A.; Shaw, R.; Sol, D.; van Kleunen, M.; Vilà, M.; von der Lippe, M.; Wolfe, L.M.; Penev, L. 2011. Open minded and open access: introducing NeoBiota, a new peer-reviewed journal of biological invasions. *NeoBiota* 9, 1-12.
- 100** Simberloff, D. ... **Jeschke, J.M.** ... 2011. Non-natives: 141 scientists object. *Nature* 475, 36.
- Wittenborn, D.; **Jeschke, J.M.** 2011. Characteristics of exotic ants in North America. *NeoBiota* 10, 47-64.
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- 100**  **Highly Cited Paper** van Kleunen, M.; Dawson, W.; Schlaepfer, D.; **Jeschke, J.M.**; Fischer, M. 2010. Are invaders different? A conceptual framework of comparative approaches for assessing determinants of invasiveness. *Ecology Letters* 13, 947-958.
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- 100** **Jeschke, J.M.**; Strayer, D.L. 2006. Determinants of vertebrate invasion success in Europe and North America. *Global Change Biology* 12, 1608-1619.
[Dataset](#)
[Phylogeny](#)
- 500** Strayer, D.L.; Eviner, V.T.; **Jeschke, J.M.**; Pace, M.L. 2006. Understanding the long-term effects of species invasions. *Trends in Ecology & Evolution* 21, 645-651.
- 100** **Jeschke, J.M.**; Strayer, D.L. 2005. Invasion success of vertebrates in Europe and North America. *Proceedings of the National Academy of Sciences USA* 102, 7198-7202.


Predators and their prey, consumers and their food

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