










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

Publications with the following features are highlighted (last update 5 April 2018):

 <b>50</b>	 <b>100</b>	 <b>250</b>	 <b>400</b>	≥50, 100, 250, 400 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			
 <b>Top 10</b>	Included 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

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[Jeschke, J.M.; Heger, T. \(eds.\) In press.](#)

*Invasion Biology: Hypotheses and Evidence*. CABI, Wallingford, UK.

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

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

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

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

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

*Chapter 9:* Nordheimer, R.; **Jeschke, J.M.** Disturbance hypothesis.

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

*Chapter 11:* Heger, T.; **Jeschke, J.M.** Enemy release hypothesis.

*Chapter 13:* **Jeschke, J.M.**; Pyšek, P. Tens rule.

*Chapter 14:* Torchyk, O.; **Jeschke, J.M.** Phenotypic plasticity hypothesis.

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

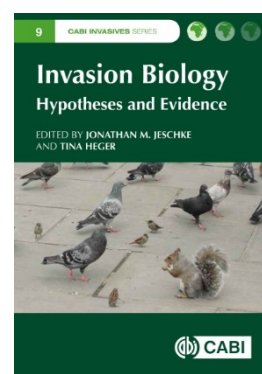
*Chapter 16:* **Jeschke, J.M.**; Starzner, J. Propagule pressure hypothesis.

*Chapter 17:* **Jeschke, J.M.**; Heger, T. Synthesis.

*Chapter 18:* Heger, T.; **Jeschke, J.M.** Conclusions and outlook.

Bellard, C.; **Jeschke, J.M.**; Leroy, B.; Mace, G.M. In press. Insights from modelling studies on how climate change affects invasive alien species geography. *Ecology and Evolution*.


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.


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.

 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.

 **Highly Cited Paper** 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).

Pergl, J.; Pyšek, P.; Bacher, S.; Essl, F.; Genovesi, P.; Harrower, C.A.; Hulme, P.E.; **Jeschke, J.M.**; Kenis, M.; Kühn, I.; Perglová, I.; Rabitsch, W.; Roques, A.; Roy, D.B.; Roy, H.E.; Vilà, M.; Winter, M.; Nentwig, W. 2017. Troubling travellers: are ecologically harmful alien species associated with particular introduction pathways? *NeoBiota* 32, 1-20.


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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.

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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.
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- 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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- 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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- Jeschke, J.M.** 2011. What we know and don't know about invasive vertebrates in Europe. *Julius-Kühn-Archiv* 432, 12-13.
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- Engel, K.; Tollrian, R.; **Jeschke, J.M.** 2011. Integrating biological invasions, climate change and phenotypic plasticity. *Communicative & Integrative Biology* 4, 247-250.
- 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.
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- 50** Simberloff, D. ... **Jeschke, J.M.** ... 2011. Non-natives: 141 scientists object. *Nature* 475, 36.
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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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- Jeschke, J.M.** 2009. Biological Invasions in Marine Ecosystems: Ecological, Management, and Geographic Perspectives. *Basic and Applied Ecology* 10, 580.
- Jeschke, J.M.** 2009. Biological Invaders in Inland Waters: Profiles, Distribution, and Threats. *Basic and Applied Ecology* 10, 486.
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- 100** **Jeschke, J.M.**; Strayer, D.L. 2008. Usefulness of bioclimatic models for studying climate change and invasive species. *The Year in Ecology and Conservation Biology 2008. Annals of the New York Academy of Sciences* 1134, 1-24.
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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](#)
- 400** 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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- 50** Dick, J.T.A.; Alexander, M.E.; **Jeschke, J.M.**; Ricciardi, A.; MacIsaac, H.J.; Robinson, T.B.; Kumschick, S.; Weyl, O.L.F.; Dunn, A.M.; Hatcher, M.J.; Paterson, R.A.; Farnsworth, K.D.; Richardson, D.M. 2014. Advancing impact prediction and hypothesis testing in invasion ecology using a comparative functional response approach. *Biological Invasions* 16, 735-753.
- Jeschke, J.M.** 2013. A thorough view of foodwebs. *BioScience* 63, 769-770.
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- Jeschke, J.M.**; Hohberg, K. 2008. Predicting and testing functional responses: an example from a tardigrade-nematode system. *Basic and Applied Ecology* 9, 145-151.
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- Jeschke, J.M.** 2007. When carnivores are "full and lazy". *Oecologia* 152, 357-364.
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- [Figure 3](#)
- 100** **Jeschke, J.M.**; Kopp, M.; Tollrian, R. 2004. Consumer-food systems: why type I functional responses are exclusive to filter feeders. *Biological Reviews* 79, 337-349.
- [Supplement](#)
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## Other topics

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