









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

Publications with the following features are highlighted (last update 26 August 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

Linzmaier, S.M.; Goebel, L.S.; Ruland, F.; **Jeschke, J.M.** In press. Behavioral differences in an over-invasion scenario: marbled vs. spiny-cheek crayfish. *Ecosphere*.

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*.

Rabitsch, W.; Heger, T.; **Jeschke, J.M.**; Saul, W.-C. In press. Priorisierung der Pfade nicht vorsätzlicher Einbringung und Ausbreitung invasiver gebietsfremder Arten in Deutschland. *Natur und Landschaft*.

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.

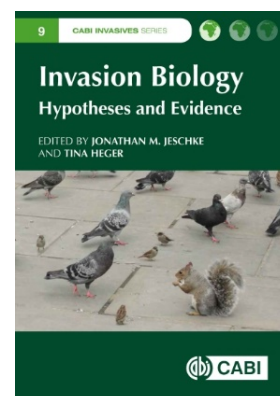
Chapter 10: Braga, R.R.; Gómez Aparicio, L.; Heger, T.; Vitule, J.R.S.; **Jeschke, J.M.** Invasional meltdown hypothesis. Pages 79-91.

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.

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.

Rabitsch, W.; Heger, T.; **Jeschke, J.M.**; 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.

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 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.

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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.

 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-Grappow, 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.

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- 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.
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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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- 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.
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