

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

Publications with the following features are highlighted (last update 6 March 2015):

<b>50</b>	<b>100</b>	<b>200</b>	<b>300</b>	≥ 50, 100, 200, 300 citations, respectively, in the Web of Science
<b>Top 10</b>				Included in the top 10 of most visited papers of the journal
<b>F1000Prime RECOMMENDED</b>				Recommended by Faculty of 1000

### Invasive species and other novel organisms

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González-Suárez, M.; Bacher, S.; **Jeschke, J.M.** In press. Intraspecific trait variation is correlated with establishment success of alien mammals. *American Naturalist*.

Heger, T.; Haider, S.; Saul, W.-C.; **Jeschke, J.M.** In press. Species from different taxonomic groups show similar invasion traits. *Immediate Science Ecology*.

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.

**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.

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.

Dana, E.D.; **Jeschke, J.M.**; García-de-Lomas, J. 2014. Decision tools for managing biological invasions: existing biases and future needs. *Oryx* 48, 56-63.

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.

Heger, T.; **Jeschke, J.M.** 2014. The enemy release hypothesis as a hierarchy of hypotheses. *Oikos* 123, 741-750.

- Platt, V.; **Jeschke, J.M.** 2014. Are exotic species red queens? *Ethology Ecology & Evolution* 26, 101-111.
- 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.
- Heger, T.; Pahl, A.T.; Botta-Dukat, Z.; Gherardi, F.; Hoppe, C.; Hoste, I.; Jax, K.; Lindström, L.; Boets, P.; Haider, S.; Kollmann, J.; Wittmann, M.J.; **Jeschke, J.M.** 2013. Conceptual frameworks and methods for advancing invasion ecology. *AMBIO* 42, 527-540.
- 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.
- Larson, B.M.H.; Kueffer, C.; **ZiF Working Group on Ecological Novelty.** 2013. Managing invasive species amidst high uncertainty and novelty. *Trends in Ecology & Evolution* 28, 255-256.
- Mason, G.; Burn, C.C.; Dallaire, J.A.; Kroshko, J.; McDonald Kinkaid, H.; **Jeschke, J.M.** 2013. Plastic animals in cages: behavioural flexibility and responses to captivity. *Animal Behaviour* 85, 1113-1126.
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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.
- 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.
- Jeschke, J.M.** 2011. Range modeling. In: Simberloff, D.; Rejmánek, M. (eds.). *Encyclopedia of Biological Invasions*, pp. 568-571. University of California Press, Berkeley.
- Jeschke, J.M.** 2011. What we know and don't know about invasive vertebrates in Europe. *Julius-Kühn- Archiv* 432, 12-13.
- Jeschke, J.M.**; Genovesi, P. 2011. Do biodiversity and human impact influence the introduction or establishment of alien mammals? *Oikos* 120, 57-64.
- 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.
- 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-Gradow, 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.
- 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.
- Jeschke, J.M.** 2010. Invasive Species Management: A Handbook of Principles and Techniques. *Basic and Applied Ecology* 11, 558-559.
- Carlsson, N.O.L.; **Jeschke, J.M.**; Holmqvist, N.; Kindberg, J. 2010. Long-term data on invaders: when the fox is away, the mink will play. *Biological Invasions* 12, 633-641.
- 100** 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 Invaders in Inland Waters: Profiles, Distribution, and Threats. *Basic and Applied Ecology* 10, 486.
- Blackburn, T.M.; **Jeschke, J.M.** 2009. Invasion success and threat status: two sides of a different coin? *Ecography* 32, 83-88.
- Jeschke, J.M.** 2008. Across islands and continents, mammals are more successful invaders than birds. *Diversity and Distributions* 14, 913-916.
- 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.
- Jeschke, J.M.**; Strayer, D.L. 2008. Are threat status and invasion success two sides of the same coin? *Ecography* 31, 124-130.
- Perkins, S.E.; Altizer, S.; Bjornstad, O.; Burdon, J.J.; Clay, K.; Gómez-Aparicio, L.; **Jeschke, J.M.**; Johnson, P.T.J.; Lafferty, K.D.; Malmstrom, C.M.; Martin, P.; Power, A.; Strayer, D.L.; Thrall, P.H.; Uriarte, M. 2008. Invasion biology and parasitic infections. In: Ostfeld, R.S.; Keesing, F.; Eviner, V.T. (eds.). *Infectious Disease Ecology: Effects of Ecosystems on Disease and of Disease on Ecosystems*, pp. 179-204. Princeton Univ. Press, Princeton, New Jersey.
- Jeschke, J.** 2006. Ehrengäste außer Kontrolle - Eingeführte Arten: ein unterschätztes Problem [Guests of honor out of control - Introduced species: an underestimated problem]. *raum&zeit* 141, 58-64.

**50** **Jeschke, J.M.**; Strayer, D.L. 2006. Determinants of vertebrate invasion success in Europe and North America. *Global Change Biology* 12, 1608-1619.

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[Phylogeny](#)

**300** 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

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**Jeschke, J.M.** 2013. A thorough view of foodwebs. *BioScience* 63, 769-770.

**Jeschke, J.M.** 2011. The wolf's tooth: keystone predators, trophic cascades, and biodiversity. *Basic and Applied Ecology* 12, 477.

**Jeschke, J.M.** 2008. Predation in Organisms. *Basic and Applied Ecology* 9, 614.

**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.

**Jeschke, J.M.**; Laforsch, C.; Tollrian, R. 2008. Animal prey defenses. In: Jørgensen, S.E.; Fath, B.D. (eds.). *Encyclopedia of Ecology*, pp. 189-194. Elsevier, Oxford.

**Jeschke, J.M.** 2007. When carnivores are "full and lazy". *Oecologia* 152, 357-364.

**Jeschke, J.M.**; Tollrian, R. 2007. Prey swarming: which predators become confused and why? *Animal Behaviour* 74, 387-393.

Jensen, C.X.J.; **Jeschke, J.M.**; Ginzburg, L.R. 2007. A direct, experimental test of resource vs. consumer dependence: comment. *Ecology* 88, 1600-1602.

**Jeschke, J.M.** 2006. Density-dependent effects of prey defenses and predator offenses. *Journal of Theoretical Biology* 242, 900-907.

**Jeschke, J.M.**; Kopp, M. Tollrian, R. 2006. Time and energy constraints: reply to Nolet & Klaassen (2005). *Oikos* 114, 553-554.

**Jeschke, J.M.**; Tollrian, R. 2005. Effects of predator confusion on functional responses. *Oikos* 111, 547-555.

**Jeschke, J.M.**; Tollrian, R. 2005. Predicting herbivore feeding times. *Ethology* 111, 187-206.

[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](#)

**Jeschke, J.M.**; Quillen, L.M. 2004. Only the clever survive: prey use 5 methods to outsmart their predators. *Poughkeepsie Journal* 15.2., 7B.


**200** **Jeschke, J.M.**; Kopp, M.; Tollrian, R. 2002. Predator functional responses: discriminating between handling and digesting prey. *Ecological Monographs* 72, 95-112.

**50** **Jeschke, J.M.**; Tollrian, R. 2000. Density-dependent effects of prey defences. *Oecologia* 123, 391-396.

## Other topics

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Utz, M.; **Jeschke, J.M.**; Loeschcke, V.; Gabriel, W. 2014. Phenotypic plasticity with instantaneous but delayed switches. *Journal of Theoretical Biology* 340, 60-72.

 Kaushal, S.S.; **Jeschke, J.M.** 2013. Collegiality versus competition: how metrics shape scientific communities. *BioScience* 63, 155-156.

**Jeschke, J.M.**; Haider, S. 2012. G. Evelyn Hutchinson and the Invention of Modern Ecology. The Art of Ecology: Writings of G. Evelyn Hutchinson. *Basic and Applied Ecology* 13, 484.

**Jeschke, J.**; Peller, E. 2011. Von r-Strategen und K-Strategen sowie schnellen und langsamen Lebenszyklen [Of r-strategists and K-strategists, and fast and slow life histories]. In: Dreesmann, D.; Graf, D.; Witte, K. (eds.). *Evolutionsbiologie – Moderne Themen für den Unterricht*, pp. 95-113. Spektrum Akademischer Verlag, Heidelberg.

Uhlmann, S.S.; **Jeschke, J.M.** 2011. Comparing factors associated with total and dead sooty shearwater bycatch in New Zealand trawl fisheries. *Biological Conservation* 144, 1859-1865.

**Jeschke, J.** 2009. Ist das Leben vorbestimmt? Ist freier Wille eine Illusion? [Is life predetermined? Is free will an illusion?]. *Universitas online*. [www.heidelberger-lese-zeiten-verlag.de/online.htm](http://www.heidelberger-lese-zeiten-verlag.de/online.htm)

**Jeschke, J.M.**; Kokko, H. 2009. The roles of body size and phylogeny in fast and slow life histories. *Evolutionary Ecology* 23, 867-878.

**Jeschke, J.M.**; Gabriel, W.; Kokko, H. 2008. *r*-strategists / *K*-strategists. In: Jørgensen, S.E.; Fath, B.D. (eds.). *Encyclopedia of Ecology*, pp. 3113-3122. Elsevier, Oxford.

**Jeschke, J.M.**; Kokko, H. 2008. Mortality and other determinants of bird divorce rate. *Behavioral Ecology and Sociobiology* 63, 1-9.

Mayer, F.W.; Duewel, S.; Haas, A.; Naumann, M.; Jantzen, C.; **Jeschke, J.M.**; Wild, C. 2008. COREweb, a web-based information management solution for experimental data from the field of coral reef ecology. *Proceedings of the 11<sup>th</sup> International Coral Reef Symposium*, Session number 16.

**Jeschke, J.M.**; Wanless, S.; Harris, M.P.; Kokko, H. 2007. How partnerships end in guillemots *Uria aalge*: chance events, adaptive change, or forced divorce? *Behavioral Ecology* 18, 460-466.

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Smith, M.F.; Eviner, V.T.; Weathers, K.; Uriarte, M.; Ewing, H.; **Jeschke, J.M.**; Groffman, P.; Jones, C.G. 2005. Creating individual awareness about Responsible Conduct in Research: A case study of one institution's approach for researchers and administrators. *Journal of Research Administration* 36, 21-25.

**Jeschke, J.** 2004. Das Gute und das Böse. Warum Menschen moralisch sind [Good and evil: why people are moral]. *Universitas online*. [www.heidelberger-lese-zeiten-verlag.de/online.htm](http://www.heidelberger-lese-zeiten-verlag.de/online.htm). Also published on the website of Forum46, an interdisciplinary forum for Europe: [www.forum46.net](http://www.forum46.net), and on [www.holy.or.at](http://www.holy.or.at).

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- Schreilechner, P.; Krombass, A.; Urhahne, D.; **Jeschke, J.**; Harms, U. 2002. Multimediales Lernen im Naturkundemuseum Dornbirn: Das EU-Projekt „TREBIS“ - Informationen über Artenvielfalt und Ökologie [Multimedia learning in Dornbirn's natural history museum: the EU-project 'TREBIS' - information on biodiversity and ecology]. In: Umweltdachverband (ed.). *Leben in Hülle und Fülle: Vielfältige Wege zur Biodiversität*, pp. 119-122. FORUM Umweltbildung, Wien.
- Kopp, M.; **Jeschke, J.M.**; Gabriel, W. 2001. Exact compensation of stream drift as an evolutionarily stable strategy. *Oikos* 92, 522-530.