Readings

Plant Physiological Ecology
Spring 2019

Please contact Dr. Smith if you have trouble accessing the articles

Note: this file will be updated to account for changes to the schedule

Week of January 21

Classical Literature Tuesday - Jan 22

Chapin FS. 2003. Effects of Plant Traits on Ecosystem and Regional Processes: a Conceptual Framework for Predicting the Consequences of Global Change. Annals of Botany 91: 455–463.

`https://academic.oup.com/aob/article/91/4/455/213070`

Recent Literature Thursday - Jan 24

Reich PB. 2014. The world-wide 'fast–slow' plant economics spectrum: a traits manifesto. Journal of Ecology 102: 275–301.

`https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2745.12211`

Week of January 28

Classical Literature Tuesday - Jan 29

Von Caemmerer S, Farquhar GD. 1981. Some relationships between the biochemistry of photosynthesis and the gas exchange of leaves. Planta 153: 376–387.

`https://link.springer.com/article/10.1007/bf00384257`

Recent Literature Thursday - Jan 31

Smith NG, Dukes JS. 2018. Drivers of leaf carbon exchange capacity across biomes at the continental scale. Ecology 99: 1610–1620.

https://esajournals.onlinelibrary.wiley.com/doi/full/10.1002/ecy.2370

Week of February 4

Classical Literature Tuesday - Feb 5

Boardman NK. 1977. Comparative photosynthesis of sun and shade plants. Annual review of plant physiology 28: 355–377.

https://www.annualreviews.org/doi/10.1146/annurev.pp.28.060177.002035

Recent Literature Thursday - Feb 7

Niinemets Ü, et al. 2015. A worldwide analysis of within-canopy variations in leaf structural, chemical and physiological traits across plant functional types. New Phytologist 205: 973–993.

https://nph.onlinelibrary.wiley.com/doi/full/10.1111/nph.13096

Week of February 11

Classical Literature Tuesday - Feb 12

Atkin OK and Tjoelker M. 2003. Thermal acclimation and the dynamic response of plant respiration to temperature. Trends in Plant Science 8: 343–351.

https://www.sciencedirect.com/science/article/pii/S1360138503001365

Recent Literature Thursday - Feb 14

Saenz et al. 2018. In situ warming in the Antarctic: effects on growth and photosynthesis in Antarctic vascular plants. New Phytologist 218: 1406-1418.

https://nph.onlinelibrary.wiley.com/doi/full/10.1111/nph.15124

Week of February 18

Classical Literature Tuesday - Feb 19

Chaves MM, Pereira JS, Maroco J, et al. 2002. How Plants Cope with Water Stress in the Field? Photosynthesis and Growth. Annals of Botany 89: 907–916.

https://academic.oup.com/aob/article/89/7/907/151103

Recent Literature Thursday - Feb 21

Ismail and Horie. 2017. Genomics, Physiology, and Molecular Breeding Approaches for Improving Salt Tolerance. Annual Review of Plant Biology 68: 405 - 434.

https://www.annualreviews.org/doi/abs/10.1146/annurev-arplant-042916-040936

Week of February 25

Classical Literature Tuesday - Feb 26

Bazzaz FA. 1990. The response of natural ecosystems to the rising global CO2 levels. Annual review of ecology and systematics 21: 167–196.

https://www.annualreviews.org/doi/10.1146/annurev.es.21.110190.001123

Recent Literature Thursday - Feb 28

Ainsworth EA and Long SP. 2005. What have we learned from 15 years of free-air CO2 enrichment (FACE)? A meta-analytic review of the responses of photosynthesis, canopy properties and plant production to rising CO2. New Phytologist 165: 351–372

https://nph.onlinelibrary.wiley.com/doi/10.1111/j.1469-8137.2004.01224.x

Week of March 4

Classical Literature Tuesday - Mar 5

LeBauer, D. S. and Treseder, K. K. (2008), Nitrogen limitation of net primary productivity in terrestrial ecosystems is globally distributed. Ecology, 89: 371-379.

https://esajournals.onlinelibrary.wiley.com/doi/full/10.1890/06-2057.1

Recent Literature Thursday - Mar 7

Yuan, Z. Y. and Chen, H. Y. (2015). Decoupling of nitrogen and phosphorus in terrestrial plants associated with global changes. Nature Climate Change, 5: 465-469.

https://www-nature-com.lib-e2.lib.ttu.edu/articles/nclimate2549

Week of March 18

Classical Literature Tuesday - Mar 19

Mooney HA. 1972. The carbon balance of plants. Annual review of ecology and systematics 3: 315–346.

https://www.annualreviews.org/doi/10.1146/annurev.es.03.110172.001531

Recent Literature Thursday - Mar 21

Fraterrigo JM, MG Turner, and SM Pearson. (2006). Previous land use alters plant allocation and growth in forest herbs. Journal of Ecology, 94: 548-557.

https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/j.1365-2745.2006.01081.x

Week of April 1

Classical Literature Tuesday - Apr 2

Givnish TJ. 2002. Adaptive significance of evergreen vs. deciduous leaves: solving the triple paradox. Silva fennica 36: 703–743.

https://silvafennica.fi/article/535

Recent Literature Thursday - Apr 4

Wolkovich EM, Cook BI, Allen JM, et al. 2012. Warming experiments underpredict plant phenological responses to climate change. Nature 485: 494.

https://www.nature.com/articles/nature11014

Week of April 8

Classical Literature Tuesday - Apr 9

Grime JP. 1977. Evidence for the Existence of Three Primary Strategies in Plants and Its Relevance to Ecological and Evolutionary Theory. The American Naturalist 111: 1169–1194.

https://www.jstor.org/stable/2460262

Recent Literature Thursday - Apr 11

TBD

Week of April 15

Classical Literature Tuesday - Apr 16

Wright DP, Scholes JD, Read DJ. 1998. Effects of VA mycorrhizal colonization on photosynthesis and biomass production of Trifolium repens L. Plant, Cell and Environment 21: 209–216.

https://onlinelibrary.wiley.com/doi/10.1046/j.1365-3040.1998.00280.x

Recent Literature Thursday - Apr 18

TBD

Week of April 22

Classical Literature Tuesday - Apr 23

Aerts R. 1997. Climate, Leaf Litter Chemistry and Leaf Litter Decomposition in Terrestrial Ecosystems: A Triangular Relationship. Oikos 79: 439–449.

https://www.jstor.org/stable/3546886

Recent Literature Thursday - Apr 25

TBD

Week of April 29

Classical Literature Tuesday - Apr 30

Field CB, Lobell DB, Peters HA, Chiariello NR. 2007. Feedbacks of Terrestrial Ecosystems to Climate Change. Annual Review of Environment and Resources 32: 1–29.

https://www.annualreviews.org/doi/10.1146/annurev.energy.32.053006.141119

Recent Literature Thursday - May 2

TBD