

古植物学的故事 451 期[总第 452 期]
Story of Paleobotany Series (No.451) [The 452nd issue in total]
The Epic of Palaeobotany-451
Umbrella of American Paleobotany-182
耶鲁博士 Dana Royer, Ph.D., Yale, 2002
<http://blog.sciencenet.cn/blog-225931-977722.html>
2016-5-17 02:44

Dr. Dana Royer is currently working in the Department of Earth and Environmental Sciences, Wesleyan University in Middletown, Connecticut, USA. He studied with Leo J. Hickey (1940--2013) and Robert A. Berner (1935--2015) in the Department of Geology & Geophysics, Yale University (New Haven, CT) and received his Ph. D. degree in 2002. Then, Dr. Royer conducted his 3-year post-doctoral research in Dr. Peter Wilf's lab of Pennsylvania State University (University Park, PA). Dr. Royer's research is focused on paleobotany and paleoclimatology as well as carbon cycle.

Dr. Dana Royer was a recipient of Young Scientist Award (Donath Medal) presented by the Geological Society of America (GSA) in 2010.

ϕ1 Education background

1998: B.A., University of Pennsylvania (Philadelphia, PA);
2002: Ph.D., Yale University (New Haven, CT).

The basic information of Dana Royer's Ph.D. dissertation is as follows:

Author/Creator: [Royer, Dana Lee](#).

Title: Estimating latest cretaceous and tertiary atmospheric carbon dioxide concentration from stomatal indices [electronic resource]

ISBN: 9780493604312

Published/Created: 2002

Physical Description: 1 online resource (163 p.)

In: [Dissertation Abstracts International 63-03B](#).

Format: Archives or Manuscripts

Thesis note: Thesis (Ph.D.)--Yale University, 2002.

Also listed under: [Yale University](#).

Link to this page: <http://hdl.handle.net/10079/bibid/9843483>

ϕ 2 General interests

Global change; paleoclimatology; carbon cycle;
paleoecology; paleobotany; plant physiology.

ϕ 3 Recent publications (Appendix)

Qigao Sun:

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May 7, 2016

相关阅读:

Dr. Dana Royer

<http://droyer.web.wesleyan.edu/>

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<http://droyer.web.wesleyan.edu/publications.htm>

古植物学的故事 228 期[总第 229 期]

Story of Palaeobotany Series (No.228) [The 229th issue in total]

[Umbrella of American palaeobotany--1: An unfinished list of American palaeobotanists](#)

<http://blog.sciencenet.cn/blog-225931-826366.html>

2014-9-10 05:45

古植物学的故事 370 期[总第 371 期]

Story of Paleobotany Series (No.370) [The 371st issue in total]

Umbrella of American paleobotany-129-

Open the Umbrella of American paleobotany--撑开美国古植物学之伞

<http://blog.sciencenet.cn/blog-225931-901814.html>

2015-7-1 00:02

古植物学的故事 235 期[总第 236 期]

Story of Palaeobotany Series (No.235) [The 236th issue in total]

Umbrella of American palaeobotany-6: A historical sketch of palaeobotany of Yale University with a list of graduate students and their thesis

耶鲁大学古植物学：门庭冷落的学院派

<http://blog.sciencenet.cn/blog-225931-842175.html>

2014-11-9 06:16

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Appendix: Some recent publications of Dr. Dana Royer.

<http://droyer.web.wesleyan.edu/publications.htm>

Peppe DJ, **Royer DL**. 2015. Can climate feel the pressure? *Science*, 348: 1210-1211.

Zanne AE, Tank DC, Cornwell WK, Eastman JM, Smith SA, FitzJohn RG, McGlinn DJ, O'Meara BC, Moles AT, Reich PB, **Royer DL**, Soltis DE, Stevens PF, Westoby M, Wright IJ, Aarssen L, Bertin RI, Calaminus A, Govaerts R, Hemmings F, Leishman MR, Oleksyn J, Soltis PS, Swenson NG, Warman L, Beaulieu JM. 2015. Reply to "Doubtful pathways to cold tolerance in plants". *Nature*, 521: doi:10.1038/nature14394.

Maxbauer DP*, **Royer DL**, LePage BA. 2014. High Arctic forests during the middle Eocene supported by moderate levels of atmospheric CO₂. *Geology*, 42: 1027-1030.

Royer DL, Donnadieu Y, Park J, Kowalczyk J*, Godd  ris Y. 2014. Error analysis of CO₂ and O₂ estimates from the long-term geochemical model GEOCARBSULF. *American Journal of Science*, 314: 1259-1283 (with cover).

Blonder B, **Royer DL**, Johnson KR, Miller I, Enquist BJ. 2014. Plant ecological strategies shift across the Cretaceous-Paleogene boundary. *PLoS Biology*, 12(9): e1001949. doi: 10.1371/journal.pbio.1001949.

Franks PJ, **Royer DL**, Beerling DJ, Van de Water PK, Cantrill DJ, Barbour MM, Berry JA. 2014. New constraints on atmospheric CO₂ concentration for the Phanerozoic. *Geophysical Research Letters*, 41: 4685-4694.

Cornwell WK, Westoby M, Falster DS, FitzJohn RG, O'Meara BC, Pennell MW, McGlinn DJ, Eastman JM, Moles AT, Reich PB, Tank DC, Wright IJ, Aarssen L, Beaulieu JM, Kooyman RM, Leishman MR, Miller ET, Niinemets   , Oleksyn J, Ord  nez A, **Royer DL**, Smith SA, Stevens PF, Warman L, Wilf P, Zanne AE. 2014. Functional distinctiveness of major plant lineages. *Journal of Ecology*, 102: 345-356 (with cover).

Peppe DJ, Lemons CR, **Royer DL**, Wing SL, Wright IJ, Lusk CH, Rhoden CH*. 2014. Biomechanical and leaf-climate relationships: a comparison of ferns and seed plants. *American Journal of Botany*, 101: 338-347.

Zanne AE, Tank DC, Cornwell WK, Eastman JM, Smith SA, FitzJohn RG, McGlinn DJ, O'Meara BC, Moles AT, Reich PB, **Royer DL**, Soltis DE, Stevens PF, Westoby M, Wright IJ, Aarssen L, Bertin RI, Calaminus A, Govaerts R, Hemmings F, Leishman MR, Oleksyn J, Soltis PS, Swenson NG, Warman L, Beaulieu JM. 2014. Three keys to the radiation of angiosperms into freezing environments. *Nature*, 506: 89-92.

Royer DL. 2014. Atmospheric CO₂ and O₂ during the Phanerozoic: tools, patterns, and impacts. *Geochemistry Treatise (Second Edition)*, 6: 251-267 (invited contribution).

Royer DL, Chernoff B. 2013. Diversity in neotropical wet forests during the Cenozoic linked more to atmospheric CO₂ than temperature. *Proceedings of the Royal Society B*, 280: 20131024. doi:10.1098/rspb.2013.1024

Rohling EJ, Sluijs A, Dijkstra HA, K  hler P, van de Wal RSW, von der Heydt AS, Beerling D, Berger A, Bijl PK, Crucifix M, DeConto R, Drijfhout SS, Fedorov A, Foster G, Ganopolski A, Hansen J, H  nisch B, Hooghiemstra H, Huber M, Huybers P, Knutti R, Lea DW, Lourens LJ, Lunt D, Masson-Demotte V, Medina-Elizalde M, Otto-Bliesner B, Pagani M, P  like H, Renssen H, **Royer DL**, Siddall M, Valdes P, Zachos JC, Zeebe RE. 2012. Making sense of palaeoclimate sensitivity. *Nature*, 491: 683-691.

Royer DL. 2012. Leaf shape responds to temperature but not CO₂ in *Acer rubrum*. *PLoS ONE*, 7(11): e49559. doi:10.1371/journal.pone.0049559.

Royer DL. 2012. Climate reconstruction from leaf size and shape: new developments and challenges. In: Ivany LC, Huber BT (eds). Reconstructing Earth's Deep-Time Climate—The State of the Art in 2012. *Paleontological Society Papers*, 18: 195-212 (invited contribution).

Poulos H, Bannon B, Isard J, Stonebraker P, **Royer D**, Yohe G, Chernoff B. 2012. The world through an interdisciplinary lens. *Academe*, 98(5): 41-43.

Royer DL, Pagani M, Beerling DJ. 2012. Geobiological constraints on Earth system sensitivity to CO₂ during the Cretaceous and Cenozoic. *Geobiology*, 10: 298-310.

Royer DL, Peppe DJ, Wheeler EA, Niinemets Ü. 2012. Roles of climate and functional traits in controlling toothed vs. untoothed leaf margins. *American Journal of Botany*, 99: 915-922.

Hönisch B, Ridgwell A, Schmidt DN, Thomas E, Gibbs SJ, Sluijs A, Zeebe R, Kump L, Martindale RC, Greene SE, Kiessling W, Ries J, Zachos JC, **Royer DL**, Barker S, Marchitto TM, Moyer R, Pelejero C, Ziveri P, Foster GL, Williams B. 2012. The geological record of ocean acidification. *Science*, 335: 1058-1063.

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