

David Lee Publications 1967-present

(numbers in parantheses and red indicate Google Scholar citations as of August 2014. Blue August 2018)

Articles in Refereed Journals

- Zhang, Yong-Jiang, Qiu-Yun Yang, **David W. Lee**, Guillermo Goldstein & Kun-Fang Cao. 2013. Extended leaf senescence promotes carbon gain and nutrient resorption: importance of maintaining winter photosynthesis in subtropical forests,” *Oecologia* 173 (2013): 721-730. (1)25
- Strout, Greg, Scott D. Russell, Drew P. Pulsifer, Sema Erten, Akhlesh Lakhtakia and **David W. Lee**. 2013. Silica nanoparticles aid in structural leaf colouration in the Malaysian tropical rainforest understory herb, *Mapania caudata*. *Annals of Botany* 112: 1141–1148. (2)18
- Lee, D.W.** 2012. Galt and Simmons: the untold stories of two Miami pioneers. *Tequesta* 72:54-83.
- Richards, J.H., T.G. Troxler, **D.W. Lee** and M.H. Zimmerman. 2011. Experimental determination of effects of water depth on *Nymphaea odorata* growth, morphology, and biomass allocation. *Aquatic Botany* 95:9-16. (11)26
- Pirone, C., J.V. Johnson, J.M.E. Quirke, H.A. Priestap and **D.W. Lee**. 2010. Bilirubin Present in Diverse Angiosperms. *AOB Plants* doi 10.1093/aobpla/plq020. (3)9
- Pirone, C., J.V. Johnson, J.M.E. Quirke, H.A. Priestap and **D.W. Lee**. 2010. Bilirubin identified in *Strelitzia reginae*, the Bird of Paradise Flower. *HortScience* 45:1411-1415. (5)12
- Lee, David W.** and Eric Von Wettberg. 2010. Using Bottles to Study Shade Responses of Seedlings and Other Plants. *Plant Science Bulletin* 56 (1):23-30.
- Fourqrean, J.S., T.J. Smith III, J. Possley, T.M. Collins, **D. Lee** & S. Namoff . 2010. Are mangroves in the tropical Atlantic ripe for invasion? Exotic mangrove trees in the forests of South. Florida. *Biological Invasions* 12:2509–2522. (16)41
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- Lee, David** and Kevin Gould. 2009. Three birds with one stone: moas, heteroblasty and the New Zealand flora. *New Phytologist* 184: 282–284. 5
- Lee, David W.** 2009. Plant Tissue Optics: Micro- and Nanostructures. *Proceedings of SPIE* 7401: 740104-1-11. (5)15
- Archetti, M., T. F. Döring, S.B. Hagen, N.M. Hughes, S.R. Leather, **D.W. Lee**, S. Lev-Yadun, Y. Manetas, H.J. Ougham, P.J. Schaberg, and H. Thomas. 2009. Unraveling the evolution of autumn colours: an interdisciplinary approach. *Trends in Ecology and Evolution* 24(3):166-173. (70)165
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- Gaiser, E.E., J. Trexler, J. Richards, D. Childers, **D. Lee**, A.L. Edwards, L. Scinto, K. Jayachandran, G. Noe and R. Jones. 2005. Cascading ecological effects of low-level phosphorus enrichment in the Florida Everglades. *Journal of Environmental Quality* 34:717-

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- Lee, D.W.**, J. O'Keefe, N.M. Holbrook and T.S. Field. 2003. Pigment dynamics and autumn leaf senescence in a New England deciduous forest. *Ecological Research* 18:677-694. (100)176
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- Noe, G. *et al.* 2002. Short-term changes in phosphorus storage in an oligotrophic Everglades wetland ecosystem receiving experimental nutrient enrichment. *Biogeochemistry* 59:239-267. (43)60
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- Richards, J.H. and **D.W. Lee**. 2002. To see...heaven in a wildflower: teaching botany in the 21st century. *American Journal of Botany* 89:172-176. (2)3
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- Lee, D.W.**, S. Oberbauer, K. Baskaran, M. Mansor, H. Mohamad and S.K. Yap. 1999. Effects of irradiance and spectral quality on the development of jelutong seedlings. *Journal of Tropical Forest Science* 11:132-147. (3)3
- Lee, D.W.** 1998. The biology of rudraksha. *Current Science (Bangalore)* 75:26-30. (5)8
- Lee, D.W.**, with S. Oberbauer, K. Baskaran, M. Mansor, H. Mohamad and S.K. Yap. 1997. Effects of irradiance and spectral quality on the development of two *Hopea* species. *Oecologia*

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- Lee, D.W.** 1991. Ultrastructural basis and function of iridescent blue colour of fruits in *Eleocarpus*. *Nature* 349:260-262. (65)105
- Lee, D.W.**, R. Bone, S. Tarsis and D. Storch. 1990. Correlates of leaf optical properties in tropical forest extreme shade and sun plants. *American Journal of Botany* 77:370-380. (147)177
- Lee, D.W.** 1989. Canopy dynamics and light climates in a tropical moist deciduous forest. *Journal of Tropical Ecology* 5:65-79. (40)52
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Book Chapters

- Lee, D.W. 2017. A collaborative life in plants, *In Pathways to Collaboration, Vol. 2*. Eds. Jim Fowler et al. Science Tech Publishers, pp. 64-109.
- Lee, D.W. 2014. A life in plants. In, Otto J. Crocomo, Julius P. Kreier and William R. Sharp (eds.): *Reflections & Connections. Personal Journeys through the Life Sciences*, 2 vol.. Science Tech Publishers LLC., pp.301-358.
- Gebeshuber, I. and D.W. Lee. 2012. Nanostructures for colouration (plants). In, B. Bharat, ed.: *Encyclopedia of Nanotechnology*, Springer, New York, in press, p. 1790-1803. (12)13
- Lee, D.W. 2011. Chapter 9: Biomimicry of the Ultimate Optical Device--The Plant. In, Yoseph Bar-Cohen (ed.): *Biomimetics: Nature-Based Innovation*. CRC Press / Taylor & Francis Group, Boca Raton, FL, pp. 307-330. 1
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- Lee, D.W. 2002. Anthocyanins in autumn leaf senescence, pp. 147-165. In K.S. Gould and D.W. Lee, eds.: *Anthocyanins and Leaves: the function of anthocyanins in vegetative organs. Advances in Botanical Research*, Academic Press, London. (31)41
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- Lee, D.W.** 1977. Lectins, legumes and botanical gardens. In B.C. Stone, ed.: The aims and goals of tropical botanic gardens. University of Malaya Press, Kuala Lumpur, pp. 151-157.

Books

- Peter Ashton and **David Lee**. In press. Exploring Topovan: A Natural History of Tropical Asian Forests, University of Chicago Press, Chicago, IL.
- Lee, David W.** 2017. Nature's Fabric. Leaves in Science and Culture. University of Chicago Press, Chicago, 456 p.
- Lee, David W.**, ed. 2013. The World as Garden. The Life and Writings of David Fairchild. CreateSpace, North Charleston, SC, 335 p.
- Lee, David W.** and Stacy West. 2011. Wayside trees of Tropical Florida. Tellus Books, Mebane, NC, 278 p.
- Lee, David W.** 2007. Nature's Palette: The Science of Plant Color. University of Chicago Press, Chicago, 409 p. (Paperback edition 2010). (77)175
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- Lee, D.W.** 1980. The sinking ark: environmental problems in Southeast Asia. Heinemann Educational Books, Kuala Lumpur. 85 p. (11)
- Williams, C.N. and **D.W. Lee**. 1978. Ulangkaji kajihayat moden untok SPM. Penerbit Fajar Bakti, Kuala Lumpur. 174 p. (Bahasa Malaysia version of 1976 book)
- Lee, D.W.**, B.C. Stone, M. Ratnasabapathy and T.T. Khoo. 1977. The natural history of Pulau Tioman. Merlin Samudra Tioman, Kuala Lumpur, 69 p. (7)10
- Williams, C.N. and **D.W. Lee**. 1976 Modern biology: modern certificate guides. Oxford University Press, Kuala Lumpur. 160 p.

Popular Articles (non-refereed)

- Lee, David**. 2018. The willow family in Crestone. The Crestone Eagle, April: B-1
- Lee, David**. 2015. The science behind autumn colors in the San Luis Valley. The Crestone Eagle, September: B1-2.
- Lee, David**. 2015. Gray & Hooker's Blanca Peak expedition: The Asian connection. The Crestone Eagle, February: B1-2.
- Lee, D.W.** 2014. The Commons and the Trail. Crestone Eagle 25 (12): B-2.
- Lee, David W.** and Dennis Stevenson. 2013. David E. Fairbrothers, in memorium. Plant Science Bulletin 59 (1):9-11.
- Lee, D.W.** 2005. Plant pigments and their manipulation (book review). Annals of Botany 96:1332-1333.
- Lee, D.W.** 2004. Medicines from the tropical rainforest canopy. Plant Talk 36:46.
- Lee, D.W.** 2004. Architectures de plantes (book review). Plant Science bulletin 50:85-86.
- Lee, D.W.** 2003. Homage due (review of book about Alwyn gentry). Conservation Biology 17:1193-1195.
- Lee, D.W.** and Kevin Gould. 2002. Why leaves turn red. American Scientist 90:524-531. (54)90
- Lee, D.W.** 1997. Iridescent blue plants. American Scientist 85:56-63. (54)70
- Lee, D.W.** 1997. Iridescent blue fern. Biophotonics International 4(2):86-87.
- Lee, D.W.** 1995. The meaning of the garden. Fairchild Tropical Garden Bulletin 50(2):14.
- Lee, D.W.** 1994. Rudraksha. the Taj Magazine 23(2):56-60.
- Lee, D.W.** 1992. Dandaka forest. Darshan Magazine #68(October):14-18.
- Lee, D.W.** 1991. The silent valley. Darshan Magazine #57(December):79-81.
- Lee, D.W.** 1990. The sacred forest. Darshan Magazine #36(March):68-75.
- Lee, D.W.** 1989. Digota: an Indian Village. Fairchild Tropical Garden Bulletin 44:6-17.
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- Lee, D.W.** 1983. Monster plants: a history. Fairchild Tropical Garden Bulletin 38(3):6-11.

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- Lee, D.W.** 1980. Durians. *Horticulture* 58(7):47-51.
- Lee, D.W.** 1980. Padua. *American Horticulturist* 59(4):18-21.
- Lee, D.W.** 1980. Iridescent blue plants. *Horticulture* 58(8):36-40.
- Lee, D.W.** 1979. *Begonia pavonina*. *The Begonian* 46:210-213.
- Lee, D.W.** 1979. Life out on a limb. *Horticulture* 57(12):30-35.
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- Lee, D.W.** 1976. The natural history of Pulau Tioman. *The Malayan Naturalist* 2(2):10-15.
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- Lee, D.W.** 1975. The economics of the durian. *Malaysian Business*, November, pp. 71-74.
- Lee, D.W.** and K. Paranjothy. 1974. New techniques in crop improvement. *Planter (Kuala Lumpur)* 50:295-306.
- Lee, D.W.** 1973. Environmental problems in Malaysia: an overview. *ITM Quarterly Journal* 5:24-30.

Meeting Talks and Abstracts

- Lee, David W.**, Akhlesh Lakhtakia, Greg Strout and Scott Russell. 2013. Circular polarization in adaxial epidermal walls of iridescent plants. *Botany 2013*, New Orleans, LA, July 27th-August 1st.
- Lee, David W.**, Bruce Kirchoff and Stacy West, The educational value of an urban tree flora: Wayside Trees of Tropical Florida. *Botany 2012*, Columbus Ohio, July 7th-11th.
- Lee, David W.**, John O'Keefe and Brett Jestrow, Patterns of autumn leaf color change in New England plants. *Botany 2012*, Columbus Ohio, July 7th-11th.
- Lee, D.W.** and D.S. Stevenson. 2010. Introduction to the scientific career of Barry Tomlinson. 60th BSA Meetings, Providence, R.I., August.
- Pirone, Cary L., Jodie M. Johnson, Martin Quirke, Horatio A. Priestap and **David W. Lee**. 2010. Bilirubin: a pigment novel to the plant kingdom. 60th BSA Meetings, Providence, R.I., August.
- Richards, J.H., Troxler, T.G. and **Lee, D.W.** 2010. Responses of *Nymphaea odorata*, *Nymphoides aquatica* and *Eleocharis elongata* to water depth and dry down. 60th BSA Meetings, Providence, R.I., August.
- Strout, G., S. Russell and **D. W. Lee**. 2009. Ultrastructural basis for blue iridescence in a tropical Asian sedge: *Mapania caudata*. 59th BSA Meetings, Snowbird, UT, July.
- Lee, D.W.** 2009. Using bottles as shade environments for the study of seedling development. 59th BSA Meetings, Snowbird, UT, July.
- Lee, David W.** 2009. Plant Tissue Optics: Micro- and Nanostructures. In Symposium, Biomimetics and Bioinspiration, SPIE Photonics Meeting, San Diego, August.
- Lee, D.W.**, J.H. Richards and J.C. Kelley. 2008. Blue leaf iridescence as a by-product of

- photoprotection in tropical rainforest understory plants. 58th BSA Meetings, Vancouver, BC, July. 58th BSA Meetings, Vancouver, BC, July.
- Lee, D.W.** 2008. How I learned to do botanical research in the tropics (in symposium, The Future of Botanical Research: possible strategies for your international collaborations and research). 58th BSA Meetings, Vancouver, BC, July.
- Richards, J.H., T. Troxler-Gann, M.H. Dow and **D.W. Lee**. 2007. Morphology and growth of *Nymphoides aquatica* (Menyanthaceae) in response to water depth. 57th BSA Meetings, Chicago, IL, July.
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