











- [34] Wang J., Long Y., Xie J., et al. (1994). Effect of shade on Arabica coffee, *Tropical Crop Research*, Vol. 2, pp. 31-35.
- [35] Li J., Zhang H., Zhou H., et al. (2011). Effects of shade or non-shade farming systems on the quality of coffee in Yunnan, *Tropical Agriculture Engineering*, Vol. 31, No. 10, pp. 20-23.
- [36] Bosselmann A.S., Dons K., Oberthur T., et al. (2009). The influence of shade trees on coffee quality in small holder coffee agroforestry systems in Southern Colombia, *Agriculture, Ecosystems & Environment*, Vol. 129, No. 1, pp.253–260. DOI: [10.1016/j.agee.2008.09.004](https://doi.org/10.1016/j.agee.2008.09.004)
- [37] Van Asten P.J.A, Wairegi L.W.I., Mukasa D., et al. (2011). Agronomic and economic benefits of coffee banana intercropping in Uganda’s smallholder farming systems, *Agricultural Systems*, Vol. 104, No. 4, pp. 326–334. DOI: [10.1016/j.agsy.2010.12.004](https://doi.org/10.1016/j.agsy.2010.12.004)
- [38] Ricci M.S.F., Rouws J.R.C., Oliveira N.G., et al. (2011). Vegetative and productive aspects of organically grown coffee cultivars under shaded and unshaded systems, *Scientia Agricola*, Vol. 68, No. 4, pp. 424–430. DOI: [10.1590/S0103-90162011000400006](https://doi.org/10.1590/S0103-90162011000400006)
- [39] Cavatte P.C., Rodriguez-Lopez N.F., Martins S.C.V., et al. (2012). Functional analysis of the relative growth rate, chemical composition, construction and maintenance costs, and the payback time of *Coffea arabica* L. leaves in response to light and water availability, *Journal of experimental botany*, Vol. 63, No. 8, pp. 3071–3082. DOI: [10.1093/jxb/ers027](https://doi.org/10.1093/jxb/ers027)
- [40] Jaramillo-Botero C., Santos R.H.S., Martinez H.E.P., et al. (2010). Production and vegetative growth of coffee trees under fertilization and shade levels, *Scientia Agricola*, Vol. 67, No. 6, pp. 639–645. DOI: [10.1590/S0103-90162010000600004](https://doi.org/10.1590/S0103-90162010000600004)
- [41] Jaramillo-Botero C., Santos R.H.S., Martinez H.E.P., et al. (2009). Production and vegetative development of coffee trees grown under solar radiation and fertilization levels, during years of high and low yield, *American-Eurasian Journal of Agricultural and Environmental Science*, Vol. 6, No. 2, pp. 143–151.